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January 16, 2017

Mr. Paul Cho, P.G.
Unit V
California Regional Water Quality Control Board
Los Angeles Region
320 West 4th Street, Suite 200
Los Angeles, California 90013

Dear Mr. Cho:

Attached is the Second Semiannual 2017 Groundwater Monitoring and Sampling Report for Defense Fuel Support Point Norwalk (SCP NO. 0286A, SITE ID NO. 16638) located at 15306 Norwalk Boulevard, Norwalk, California. This report presents monitoring and sampling data collected during October 2017.

If you have any questions or need additional information concerning this document, please contact Ms. Carol Devier-Heeney at (703) 767-9813 or carol.devier-heeney@dla.mil.

Sincerely,

A handwritten signature in black ink that reads "William Y. Potter".

Digitally signed by
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William Y. Potter
Chief, Restoration Branch

Enclosure
As stated

cc:
Daniel Swensson, P.G., Senior Geologist, The Source Group, Inc.

**SECOND SEMIANNUAL 2017 GROUNDWATER
MONITORING AND SAMPLING REPORT**

Defense Fuel Support Point Norwalk

**15306 Norwalk Boulevard
Norwalk, California 90650**

SPO600-14-D-5410

Delivery Order 0018

Prepared For:

Defense Logistics Agency
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LIST OF ACRONYMS

µg/L	micrograms per liter
Alpha	Alpha Analytical, Inc.
bgs	below ground surface
Blaine Tech	Blaine Tech Services, Inc.
BTEX compounds	benzene, toluene, ethylbenzene, and total xylenes
CH2M	CH2M HILL Engineers, Inc.
COCs	chemicals of concern
DIPE	diisopropyl ether
DFSP Norwalk	Defense Fuel Support Point Norwalk
DLA	Defense Logistics Agency
1,2-DCA	1,2-dichloroethane
DF-FEE	DLA Installation Operations Energy
EPA	Environmental Protection Agency
ETBE	ethyl tertiary-butyl ether
ft/ft	feet per foot
gpm	gallons per minute
GWE	groundwater extraction
JP-4	jet propellant No. 4
JP-5	jet propellant No. 5
JP-8	jet propellant No. 8
KMEP	Kinder Morgan Energy Partners, L.P.
LDPE	low-density polyethylene
mL/min	milliliters per minute
MSL	Mean Sea Level
MTBE	methyl tertiary-butyl ether
NPDES	National Pollutant Discharge Elimination System
RAB	Restoration Advisory Board
RWQCB	Regional Water Quality Control Board
RTO	regenerative thermal oxidizer
scfm	standard cubic feet per minute
SFPP	Santa Fe Pacific Pipeline, L.P.
SGI	The Source Group, Inc.
SVE	soil vapor extraction
TAME	tertiary-amyl methyl ether
TBA	tertiary-butyl alcohol
TFE	total fluids extraction
TPH	total petroleum hydrocarbons
TPHd	total petroleum hydrocarbons quantified as diesel
TPHg	total petroleum hydrocarbons quantified as gasoline
VOA	volatile organic analysis
VOCs	volatile organic compounds

1.0 INTRODUCTION

The Source Group, Inc. (SGI), prepared this groundwater monitoring report on behalf of the Defense Logistics Agency (DLA) Installation Operations Energy (DF-FEE) and Santa Fe Pacific Pipeline, L.P. (SFPP), an operating partnership of Kinder Morgan Energy Partners, L.P. (KMEP), to summarize the results of the second semiannual 2017 groundwater monitoring and sampling event conducted at the Defense Fuel Support Point (DFSP) Norwalk (Site), located at 15306 Norwalk Boulevard in Norwalk, California (Figure 1).

The results documented in this report are based on groundwater monitoring conducted in accordance with the revised sampling and analysis plans prepared by DF-FEE (Parsons, September 2013) and SFPP (CH2M, May 2013). The Regional Water Quality Control Board (RWQCB) approved the sampling plans on October 23, 2013, and June 27, 2013, respectively.

DF-FEE and SFPP jointly perform semiannual groundwater monitoring and sampling at the Site to address respective impacts to groundwater by each entity. DF-FEE contracted SGI and SFPP contracted CH2M to perform project oversight of groundwater monitoring activities. SFPP contracted Blaine Tech Services, Inc. (Blaine Tech), to gauge and sample the designated SFPP wells and SGI personnel conducted the gauging and sampling for DF-FEE. SGI was retained by DF-FEE to compile and interpret the data collected during this semiannual event and to prepare this summary report.

Since 1986, environmental assessments have been performed at DFSP Norwalk (both on site and off site) by several consultants on behalf of DF-FEE and SFPP. During these investigations, wells were installed for monitoring and as components of remediation activities. Table 1 presents a summary of groundwater monitoring and remediation wells associated with the Site. These investigations evaluated and defined the extent of liquid-phase, adsorbed-phase, and dissolved-phase hydrocarbons in soil and groundwater beneath the Site and off site to the south, east, and west.

Based upon the results of these investigations, the principal chemical constituents of concern (COCs) at the Site are total petroleum hydrocarbons (TPH), including TPH quantified as gasoline (TPHg), diesel fuel (TPHd), Jet Propellant No.4 (JP-4), Jet Propellant No.5 (JP-5), and Jet Propellant No.8 (JP-8); benzene, toluene, ethylbenzene, and xylenes (BTEX compounds); 1,2-dichloroethane (1,2-DCA); methyl tertiary-butyl ether (MTBE); and tertiary-butyl alcohol (TBA). Additional background information regarding historical investigations and monitoring events at the Site is presented in previously submitted semiannual groundwater monitoring reports. Monitoring wells and remediation wells are monitored on a semiannual basis to evaluate groundwater elevation and groundwater quality conditions.

In addition to the samples collected from wells screened in the uppermost aquifer, five wells screened in the deeper Exposition Aquifer (EXP-1 through EXP-5) were also sampled. Based upon information in the *Planned Utilization of the Ground Water Basins of the Coastal Plan of Los Angeles County* (CDWR, 1961), in the vicinity of the DFSP Norwalk Site, the Exposition Aquifer is

approximately 64 feet thick and extends from approximately 42 to 106 feet below ground surface (bgs).

This report furnishes information pertaining to the second semiannual 2017 groundwater monitoring and sampling event. This report includes groundwater gauging and sampling data from selected wells throughout the DFSP Norwalk facility and from wells located off site and provides an updated description of the status of the dissolved-phase and non-aqueous liquid-phase (floating product) hydrocarbon plumes.

2.0 FIELD AND LABORATORY ACTIVITIES

An overview of the semiannual monitoring event is provided in Section 2.1. Field and laboratory methods are described in Section 2.2.

2.1 Semiannual Groundwater Monitoring

DF-FEE wells were gauged by SGI personnel and SFPP wells were gauged by Blaine Tech on October 2-3, 2017. Fifty-one additional wells were gauged by SGI between September 25 and October 12, 2017, to evaluate the presence of floating product. Monitoring wells were purged and sampled from October 2 to October 10, 2017, and additional confirmation samples were collected on October 25, 2017. During this semiannual sampling event, SGI and Blaine Tech measured liquid levels in 226 wells and collected groundwater samples for analysis from 114 wells. Fourteen duplicate samples, three split samples, and nine confirmation samples were collected by SGI and Blaine Tech for laboratory analysis during this sampling event. Including duplicate, split, and confirmation samples, a total of 140 groundwater samples were analyzed. The wells sampled during this event are shown in bold in Table 1. Sampling was conducted using low-flow methodology, as described in Section 2.2. Exposition Aquifer wells EXP-1, EXP-2, and EXP-3 were gauged and sampled by both SGI (for DF-FEE) and Blaine Tech (for SFPP). Gauging data and calculated groundwater elevations and product thicknesses are summarized in Table 2. Field documentation is provided in Appendix A.

In addition to the wells gauged in accordance with the sampling and analysis plans, an additional 51 newly installed wells were gauged to assess the presence of floating product. These remediation wells were installed as part of the expansion of the groundwater treatment system in accordance with the RWQCB-approved *Addendum to the Revised Remedial Action Plan* (SGI, 2017b). The newly installed remediation wells will be monitored as part of the remediation operations and system optimizations and will not be incorporated into the groundwater monitoring program. Dates of installation for the newly installed wells are summarized in Table 1. These additional wells are located in the east-central area (BSP-10 through BSP-14 and RW-1 through RW-18), in the south-central area (BSP-15 through BSP-20, RW-19 through RW-34, and VEW-38 through VEW-40), and in the vicinity of TF-18 (EP-71, EP-73, and EP-74). These data were not used to prepare the groundwater equipotential and gradient map for the uppermost aquifer (Figure 2). Only one of these 51 wells was reported to contain floating product (0.24 foot, measured thickness, in EP-73), and the presence of floating product in EP-73 is indicated on Figure 3. Field gauging data and maps showing the locations of these wells are provided in Appendix B.

2.2 Field and Laboratory Methods

Field activities were conducted in accordance with the revised sampling plans as described in Section 1.0. Groundwater samples collected for DF-FEE were submitted to American Analytics in Chatsworth, California, and groundwater samples collected for SFPP were submitted to Alpha Analytical, Inc. (Alpha), in Sparks, Nevada. Both laboratories are certified by the Environmental

Laboratory Accreditation Program of the California Department of Public Health. Samples were submitted to the analytical laboratories under chain-of-custody protocol for the analyses described in Section 2.2.2.

2.2.1 Field Methods

Approximately one week prior to commencement of gauging, purging, or sampling activities, SFPP's and DF-FEE's remediation systems were shut down to allow groundwater levels to recover to near static conditions. Subsequently, SGI, Blaine Tech, and SFPP personnel measured depth to water and depth to product in the prescribed wells using interface probe well-monitoring instruments. The interface probes differentiate between water and hydrocarbons using conductivity measurements. The interface probes were cleaned with a laboratory-grade cleanser, and then rinsed successively in two containers with distilled water prior to each measurement.

Fuel-absorbent socks were present in three DF-FEE wells (eastern off-site wells GMW-62 and GMW-68 and tank farm area well TF-19) containing less than 0.25 foot of floating product. The absorbent socks are 2 inches in diameter and the wells are 4 inches in diameter. There is enough room in these wells for the interface probe to measure liquid levels without removing the socks.

Before sampling, the wells were purged using low-flow purge techniques. Flowrates ranged from approximately 0.022 to 0.125 gallons per minute (gpm; approximately 84 to 473 milliliters per minute [mL/min]), averaging 0.086 gpm (324 mL/min). During purging, groundwater field parameters (temperature, pH, electrical conductivity, turbidity, dissolved oxygen, and oxidation-reduction potential) were monitored. Water levels also were monitored during low-flow purging to verify and ensure minimal drawdown. Between approximately 0.40 and 2.50 gallons (1,500 to 9,464 milliliters) were pumped from each well prior to sampling. Samples for SFPP were collected using a 2-inch-diameter submersible Grundfos submersible pump with new or dedicated tubing, whereas samples for DF-FEE were collected using a 2-inch-diameter Monsoon or Grundfos submersible pump with new low-density polyethylene (LDPE) tubing used for each well. Field documentation is provided in Appendix A.

Groundwater field parameters were allowed to stabilize before collecting the sample. Water samples to be analyzed for TPHg, TPHd (SFPP samples only), and volatile organic compounds (VOCs) were collected in 40-milliliter volatile organic analysis (VOA) vials containing hydrochloric acid preservative, filled to zero headspace, and sealed with Teflon septa and airtight caps. DF-FEE water samples for analysis of TPHd were collected in 250-milliliter amber bottles and sealed with Teflon-lined airtight caps. The samples were labeled and placed on ice in thermally insulated coolers for transport to the laboratory following proper chain-of-custody procedures.

2.2.2 Laboratory Analytical Methods

Samples collected for DF-FEE were sent to American Analytics and samples collected for SFPP were sent to Alpha Analytical for laboratory analysis. The laboratory analytical program included analysis for VOCs using Environmental Protection Agency (EPA) Method 8260B and TPH using purge-and-trap and/or extraction sample preparation techniques followed by EPA Method 8015

(modified). Results for TPH analyses using the purge-and-trap preparation technique were quantified and reported against a commercial gasoline standard (C4 to C13) and are abbreviated “TPHg” throughout this report. Results for TPH analyses using extraction sample preparation for groundwater samples were quantified and reported against a commercial diesel standard (C14 to C22; results abbreviated “TPHd”). Laboratory analytical reports are provided in Appendix C.

3.0 GROUNDWATER GAUGING RESULTS

Measurements of water level and floating product thickness collected during this semiannual monitoring event are described in the following sections. DF-FEE's and SFPP's remediation systems were shut down approximately one week prior to the second semiannual 2017 groundwater gauging and sampling activities. Depths to groundwater and product (if present), measured product thicknesses, and calculated groundwater elevations are summarized in Table 2. Groundwater elevation contours for the uppermost groundwater zone along with the interpreted lateral extent of floating product plumes are shown on Figure 2. Groundwater elevation contours for the deeper Exposition Aquifer are shown on Figure 4. The distribution of floating product and measured product thicknesses are shown on Figure 3. Historical water level measurements, measured product thicknesses, and groundwater elevations are summarized in Appendix D.

The following wells were not considered in contouring groundwater elevation in the uppermost groundwater zone:

- Wells containing measurable floating product,
- The five wells screened in the Exposition Aquifer (EXP-1 through EXP-5),
- Five wells screened near the bottom of the uppermost aquifer [MW-18(MID), MW-19(MID), MW-20(MID), MW-21(MID), and MW-22(MID)], and
- Seven wells with groundwater elevations that appear anomalous based upon comparison with surrounding groundwater elevations (GMW-31, GMW-35R, GMW-48, GMW-56, GMW-59, GW-13, and MW-8).

The exclusion of groundwater elevation data from these wells during the construction of the interpreted groundwater contour maps provides a more generalized depiction of the groundwater conditions at the Site.

3.1 Groundwater Gradient Conditions

3.1.1 Uppermost Groundwater Zone

Depth to groundwater (excluding wells containing measurable floating product and Exposition Aquifer wells) in the uppermost groundwater zone ranged from 28.18 to 40.50 feet below the tops of the well casings. Groundwater elevations in these wells ranged from 35.41 to 43.32 feet above mean sea level (MSL). Since the April 2017 monitoring event, groundwater elevations dropped an average of 1.66 feet in uppermost groundwater zone wells that did not contain floating product. Changes in elevation ranged from a decrease of 5.11 feet in GMW-9 to an increase of 2.14 feet in TF-21.

The groundwater potentiometric surface is depicted on Figure 2. Based upon the gauging data collected during this monitoring event, the groundwater surface is generally characterized by a groundwater depression in the south-central area with gradients converging toward this depression. Groundwater depressions were also interpreted in former Tank Basin 80002 based upon the relatively lower elevation in TF-24, in the northeastern area based upon the relatively lower

elevations in GMW-58 and GW-15, and in the southeastern area based upon the relatively lower elevation in GMW-13. Groundwater mounding was indicated in the eastern area in the vicinity of TF-19. Gradients ranged from approximately 0.003 to 0.030 feet per foot (ft/ft).

Historically, the overall gradient direction (when groundwater extraction wells and biosparging are not in operation) in the uppermost aquifer has been toward the north-northwest.

Groundwater levels in MW-18(MID), MW-19(MID), MW-20(MID), MW-21(MID), and MW-22(MID), screened in the lower section of the uppermost aquifer, varied from groundwater levels measured in nearby wells installed in the upper portion of the uppermost aquifer. In general, groundwater levels measured in these "MID" wells were lower than groundwater levels measured in nearby wells [with the exception of similar groundwater levels measured in well pairs MW-21(MID) and HL-3]. Groundwater elevations in these five "MID" wells ranged from 35.41 to 39.70 feet above MSL.

3.1.2 Exposition Aquifer

Depth to groundwater in the Exposition Aquifer wells ranged from 62.04 to 54.73 feet below the tops of the well casings. Based upon data collected by Blaine Tech, groundwater elevations in the Exposition Aquifer wells ranged from approximately 17.46 to 17.78 feet above MSL. Since the April 2017 monitoring event, groundwater elevations dropped an average of 0.58 foot in the Exposition Aquifer wells. Decreases in elevation ranged from approximately 0.47 foot in EXP-5 to 0.63 foot in EXP-3.

The groundwater potentiometric surface for the Exposition Aquifer is shown on Figure 4. The groundwater gradient in the Exposition Aquifer is generally flat beneath the Site with gradients converging toward the Site from the northwest and southeast at approximately 0.0003 ft/ft. During recent monitoring events, the groundwater gradient in the Exposition Aquifer was generally toward the southeast.

3.2 Distribution of Floating Product

Floating product was measured or observed in 17 of the 230 wells that were gauged during this monitoring event:

- North-central area: EP-73, GMW-18, GMW-21, GW-14R, RTF-18-E, RTF-18-N, RTF-18-NNW, RTF-18-NW, RTF-18-W, TF-16, and TF-18;
- Eastern area: GMW-62 and GMW-68;
- South-central area: GMW-29 and GMW-O-12; and
- Southeastern area: GMW-O-15 and GMW-O-18.

Measured product thicknesses ranged from 0.01 foot in GMW-62 to 1.70 feet in TF-18. Measured product thicknesses, well gauging data, and groundwater elevations are summarized in Table 2. The detection of floating product in these wells during this sampling event along with data obtained from remediation system operations and historical detections of floating product were used in interpreting the current extent of floating product at the Site. These interpretations are shown on Figure 3 and

indicate floating product in the northern tank farm area (the north-central area), the eastern area, the south-central area, and the southeastern 24-inch-diameter block valve area. Measured product thicknesses for the current semiannual monitoring event (October 2017) and two previous monitoring events (October 2016 and April 2017) are shown on Figure 3.

The databoxes on Figure 3 are color-coded to indicate whether the product thicknesses measured during the October 2017 semiannual event are increasing, decreasing, or stable as compared with the product thicknesses measured in October 2016. A blue data label indicates a decrease in measured product thickness greater than or equal to 10 percent from the previous year, a red label indicates an increase greater than or equal to 10 percent, and a white label indicates no change greater than 10 percent or the change could not be determined due to insufficient data. The changes in measured product thicknesses may be due to seasonal fluctuations of the water table elevation or remediation system operations.

Comparison of Current Conditions with Data Collected in April 2017

Since the previous monitoring event in April 2017, measured product thicknesses increased in 10 wells (GMW-18, GMW-21, GMW-O-15, RTF-18-E, RTF-18-N, RTF-18-NNW, RTF-18-NW, RTF-18-W, TF-16, and TF-18) and decreased in 13 wells (GMW-7, GMW-23, GMW-24, GMW-29, GMW-30, GMW-45, GMW-62, GMW-68, GMW-O-11, GMW-O-12, GMW-O-18, MW-O-2, and PZ-3). Changes in measured product thickness ranged from a decrease of 3.00 feet in GMW-O-12 to an increase of 1.70 feet in TF-18. Overall, product thicknesses increased in the 23 wells containing floating product by an average of 0.07 foot since April 2017. Floating product was not present GMW-7 (reported to contain 0.02 foot in April 2017), GMW-23 (reported to contain 1.49 feet in April 2017), GMW-24 (reported to contain 0.55 foot in April 2017), GMW-30 (reported to contain 0.37 foot in April 2017), GMW-45 (reported to contain 1.42 feet in April 2017), GMW-O-11 (reported to contain 0.16 foot in April 2017), MW-O-2 (reported to contain 0.06 foot in April 2017), and PZ-3 (reported to contain 0.01 foot in April 2017). Floating product was measured in five wells that did not contain measurable product in April 2017 (GMW-18, GMW-21, RTF-18-N, RTF-18-NNW, and TF-18). Areas impacted with floating product are shown on Figure 3.

Comparison of Current Conditions with Data Collected in October 2016

Since the second semiannual 2016 monitoring event in October 2016, measured product thicknesses increased by 10 percent or more in two wells and decreased by 10 percent or more in 12 wells. Measured product thicknesses increased in north-central area well GMW-21 and in southeastern off-site well GMW-O-15. Measured product thicknesses decreased in four wells in the north-central area (GMW-18, PZ-3, TF-16, and TF-18), in eastern off-site well GMW-68, in five wells in the south-central area (on-site wells GMW-10, GMW-29, and GWR-3, and off-site wells GMW-O-11, GMW-O-12, and MW-O-2), and in southeastern wells GMW-36 and GMW-O-18.

Current Conditions

Floating product was present in the north-central area in EP-73, GMW-18, GMW-21, GW-14R, RTF-18-E, RTF-18-N, RTF-18-NNW, RTF-18-NW, RTF-18-W, TF-16, and TF-18. During the current monitoring event, floating product was measured for the first time in EP-73 (0.24 foot, measured thickness), GW-14R (1.68 feet, measured thickness), RTF-18-N (1.53 feet, measured thickness),

and RTF-18-NNW (0.05 foot, measured thickness). The measured product thicknesses recorded in this area during the current monitoring event ranged from 0.05 foot in RTF-18-NNW to 1.70 feet in TF-18. Floating product was present in five wells that did not contain floating product in April 2017 (GMW-18, GMW-21, RTF-18-N, RTF-18-NNW, and TF-18) and was not measured or observed in three wells that contained product in April 2017 (GMW-7 [0.02 foot measured in April 2017], GMW-45 [1.42 feet measured in April 2017], and PZ-3 [0.01 foot measured in April 2017]). The north-central floating product plumes are interpreted as isolated or separate plumes.

In the eastern area, floating product was measured in GMW-62 (0.01 foot, measured thickness), and GMW-68 (0.02 foot, measured thickness). Measured product thicknesses decreased in GMW-62 and GMW-68 since April 2017.

Floating product was not measured or observed in the truck rack area during this monitoring event including replacement wells GMW-4R and MW-15R.

Floating product was detected in the south-central area in GMW-29 (0.18 foot, measured thickness) and GMW-O-12 (1.20 feet, measured thickness). Floating product was not measured or observed in five wells that contained product in April 2017 (GMW-23 [1.49 feet measured in April 2017], GMW-24 [0.55 foot measured in April 2017], GMW-30 [0.37 foot measured in April 2017], GMW-O-11 [0.16 foot measured in April 2017], and MW-O-2 [0.06 foot measured in April 2017]). The product plume is in the same general area as in April 2017, but is now interpreted as two separate plumes.

Floating product was detected in the southeastern 24-inch-diameter block valve area in GMW-O-15 (1.59 feet, measured thickness) and GMW-O-18 (0.02 foot, measured thickness). Measured product thickness increased in GMW-O-15 and GMW-O-18 showed a minor decrease in measured product thickness since April 2017.

The current historically low water table elevations have allowed residual product to drain from pore spaces within the smear zone and collect in certain wells, or increase in thickness in wells with measurable product already present. The water table elevation is related to annual rainfall and the cumulative rainfall over time. As shown in the hydrograph on Figure 5, since the 2005/2006 El Niño, groundwater elevations in the uppermost aquifer declined an average of approximately 10 feet to the current low water levels across the Site. Elevations in Exposition Aquifer wells have declined an average of approximately 11 feet since the 2005/2006 El Niño. Continued total fluids extraction (TFE), vacuum extraction, manual bailing, and absorbent socks will remove the product that has accumulated due to these low water levels.

3.2.1 Comparison of Current Product Distribution with Historical Maximum Measured Product Thickness

Significant reduction in the occurrence and measured thickness of floating product has been observed since remedial efforts were initiated at DFSP Norwalk. Table 3 summarizes all of the wells that have historically contained floating product along with the maximum measured product thicknesses, current (most recent) product thickness data (the majority of the current values were

measured during the second semiannual 2017 groundwater monitoring event in October 2017), and the percent reduction from historical maximum thicknesses. Review of historical and current product data shows substantial reductions in measured free product thickness throughout the Site.

In the north-central area, historical maximum product thicknesses range up to 6.87 feet (measured in PZ-3 on May 1, 1998). Based upon the most recent gauging data from this area, this plume is currently defined by 12 wells containing floating product ranging from 0.05 foot (measured thickness) in RTF-18-NNW to a maximum of 1.70 feet (measured thickness) in TF-18. Thirty-two of the 44 wells in this area that have historically contained floating product show 100 percent reduction from their historical maximum thicknesses.

Two wells in the east-central area were reported to contain product in October 2017 (0.01 foot, measured thickness, in GMW-62 and 0.02 foot, measured thickness, in GMW-68). Historical maximum thicknesses in the east-central area range up to 6.07 feet (measured in GW-15 on April 13, 2013). Measured floating product thicknesses in the east-central area show greater than 99 percent reduction from their historical maximum thicknesses.

In the truck rack area, three wells have historically contained floating product with the maximum historical product thickness recorded in GMW-4 (5.74 feet measured on October 31, 2005). Measured floating product thicknesses in the truck rack area show 100 percent reduction from their historical maximum thicknesses.

In the south-central area, historical maximum product thicknesses range up to 16.82 feet (measured in MW-SF-2 on July 1, 1997). Based upon the most recent gauging data from this area, this plume is currently defined by two wells containing floating product (0.18 foot in GMW-29 and 1.20 feet in GMW-O-12). Thirty-six of the 38 wells in this area that have historically contained floating product show 100 percent reduction from their historical maximum thicknesses. The significant reduction in magnitude and extent of floating product is believed to be directly related to product recovery via hand-bailing and the use of product-absorbent socks and ongoing biosparge operations in this area of the Site.

In the southeastern area, three wells have historically contained floating product with the maximum historical product thickness recorded in off-site well GMW-O-15 (6.00 feet measured on May 28, 1996). During the current monitoring event, 1.59 feet of floating product was measured in GMW-O-15 and 0.02 foot of floating product was measured in GMW-O-18.

Monitoring data show considerable reduction in floating product throughout the Site. Product recovery efforts at the Site will continue and will be focused on the wells with the greatest product thicknesses and wells with the lowest percent reduction from historical highs. In addition to total fluids extraction, absorbent socks and manual bailing will continue to be utilized in selected wells.

4.0 GROUNDWATER ANALYTICAL RESULTS

Groundwater quality results for the second semiannual 2017 monitoring event are discussed below in Section 4.1. Analytical results are summarized in Table 4 (TPH, BTEX compounds, 1,2-DCA, and fuel oxygenates) and Table 5 (additional detected VOCs) and shown on Figure 6 (TPH), Figure 7 (benzene), Figure 8 (1,2-DCA), Figure 9 (MTBE), and Figure 10 (TBA). Historical analytical results are summarized in Appendix E.

Samples collected for DF-FEE were analyzed by American Analytics and samples collected for SFPP were analyzed by Alpha Analytical. Note that laboratory reporting limits varied between the two laboratories for some of the analytes.

4.1 Results for Semiannual Event

The October 2017 analytical results for TPH; benzene, 1,2-DCA, MTBE, and TBA were used to develop isoconcentration contours and interpret the extent of these analytes in groundwater beneath the Site. Isoconcentration contours for TPH, benzene, 1,2-DCA, MTBE, and TBA are presented on Figures 6 through 10, respectively. Analytical results from the current semiannual monitoring event (October 2017) and two previous monitoring events (October 2016 and April 2017) also are included on these figures. The databoxes are color-coded to indicate whether the concentrations from the October 2017 semiannual event are increasing, decreasing, or stable as compared with the data reported in October 2016. A blue data label indicates a decrease in concentration greater than or equal to 10 percent from the previous year, a red label indicates an increase greater than or equal to 10 percent, and a white label indicates no change greater than 10 percent or the change could not be determined due to insufficient data. The changes in concentrations may be due to seasonal fluctuations of the water table elevation or remediation system operations.

Laboratory analytical results for TPH, BTEX, 1,2-DCA, MTBE, TBA, DIPE, ETBE, and TAME are summarized in Table 4; additional detected VOCs are summarized in Table 5. Historical analytical results are provided in Appendix E. Time-series charts for selected monitoring and remediation wells are presented in Appendix F. Copies of the laboratory reports for the October 2017 semiannual monitoring event are provided in Appendix C. The following subsections summarize the results for selected analytes or analyte groups.

4.1.1 Total Petroleum Hydrocarbons

The analytical results for TPHg and TPHd reported for each well sampled during the semiannual monitoring event are summed and contoured as TPH on Figure 6. The separate concentrations of TPHg and TPHd are summarized in Table 4. TPHg was reported in 26 of the 114 sampled wells and TPHd was reported in 72 of the 114 sampled wells. The maximum concentration of TPHg was reported in south-central area off-site well MW-O-2 (23,000 µg/L), a well reported to contain 0.49 foot of floating product in April 2016. The maximum concentration of TPHd was reported in the south-central area on-site well MW-SF-6 (71,000 µg/L).

TPHd were reported in samples collected from Exposition Aquifer wells EXP-1 (ranging from 220 to 310 µg/L [the historical high]), EXP-2 (140 and 150 µg/L; note that TPHd were not detected [<100 µg/L] in a third sample collected from EXP-2), and EXP-3 (100 and 160 µg/L; note that TPHd were not detected [<100 µg/L] in a third sample collected from EXP-3).

TPHg were reported at historical lows in GMW-4R, GMW-7, GMW-9, GMW-30, GMW-48, GMW-59, GMW-O-23, GW-15, MW-15R, MW-SF-6, MW-SF-13, MW-SF-15, and TF-21. This is the first time TPHg were not detected in GMW-9, GMW-O-23, and MW-SF-13.

TPHd were reported for the first time in GMW-63 (170 and 440 µg/L), GMW-64 (220 and 620 µg/L), and MW-16 (100 µg/L). TPHd were reported at historical highs in EXP-1, GMW-6, GMW-8, GMW-25, GMW-42, GMW-63, GMW-64, GMW-65, GMW-67, GMW-69, GW-3, MW-16, MW-17, MW-SF-6, TF-24, and WCW-7 and were reported at historical lows in GMW-7, GMW-9, GMW-17R, GMW-36, GMW-O-21, GW-15, MW-15R, and MW-SF-1.

Comparison of Current Conditions with Data Collected in April 2017

Since the first semiannual 2017 sampling event, concentrations of TPHg increased in six wells and decreased in 16 wells. TPHg increased from non-detect in two wells (MW-26 and PZ-2). TPHg decreased to non-detect in eight wells (GMW-9, GMW-58, GMW-60, GMW-61, GMW-O-16, GMW-O-19, GMW-O-23, and MW-SF-13).

Since the first semiannual 2017 sampling event, concentrations of TPHd increased in 42 wells, decreased in 21 wells, and remained the same in GMW-O-23. TPHd increased from non-detect in 20 wells (EXP-1, EXP-2, EXP-3, GMW-6, GMW-14R, GMW-19, GMW-42, GMW-44, GMW-56, GMW-63, GMW-64, GMW-65, GMW-67, GW-3, GW-8, HL-2, MW-13, MW-16, MW-17, and MW-24). TPHd decreased to non-detect in four wells (GMW-66R, GMW-O-10, WCW-2, and WCW-13).

The current distribution of TPH in groundwater, shown on Figure 6, was compared with the TPH plumes interpreted based upon data collected in April 2017. The TPH plume extends further to the north (TPH reported in GMW-6, GMW-56, GW-3, GW-8, MW-13, and MW-24) and east (TPH reported in on-site wells MW-17 and eastern off-site wells GMW-63, GMW-64, and GWM-65). The TPH plume does not extend as far to the northeast (TPH not detected in GMW-66R) or to the southeast (TPH not detected in GMW-O-16). TPH was not detected in western off-site wells WCW-2 or WCW-13, but was reported in western off-site well WCW-7 (not sampled in April 2017). The south-central plume extends further to the west (TPH reported in HL-2) but does not extend as far to the south (TPH not detected in southern off-site well GMW-O-3).

Comparison of Current Conditions with Data Collected in October 2016

Since October 2016, TPH concentrations increased by 10 percent or more in 26 wells and decreased by 10 percent or more in 25 wells.

Since October 2016, TPH increased in southern off-site well GMW-O-10, in south-central wells GMW-23, GMW-25, HL-2, and MW-SF-6, in western off-site well WCW-7, in eastern off-site wells GMW-63, GMW-64, GMW-65, GMW-67, and GMW-69, and in tank farm area wells EXP-1, GMW-6,

GMW-8, GMW-48, GMW-56, GMW-61, GW-2, GW-3, GW-6, GW-8, MW-13, MW-17, MW-26, MW-29, and TF-24.

Decreases in TPH since October 2016 were noted in 12 wells [TPH decreased in GMW-9, GMW-O-14, GMW-O-20, GMW-O-21, GMW-O-23, MW-18(MID), MW-21(MID), MW-SF-1, MW-SF-4, MW-SF-13, MW-SF-15, and PZ-2] in the south-central and truck rack areas, along the eastern border (TPH decreased in GMW-47, GMW-57, GMW-59, GMW-60, GW-15, and PZ-5), along the western border [TPH decreased in MW-22(MID)], and in the tank farm area (TPH decreased in GMW-7, GMW-12, GMW-15, GMW-44, TF-8, and TF-21).

4.1.2 Benzene

The distribution of dissolved benzene is shown on Figure 7. During this sampling event, benzene was reported in 32 of the 114 sampled wells. Analytical results for benzene in groundwater samples collected during this semiannual event ranged from non-detect (<0.50 µg/L) in many of the wells to 9,400 µg/L in southern off-site well MW-O-2. This is the first time benzene was reported in western off-site well WCW-7. Benzene was non-detect for the first time in monitoring well GMW-9. Benzene was reported at historical highs in GMW-69, GW-3, TF-9R, and WCW-7 and at historical lows in GMW-4R, GMW-7, GMW-9, GMW-O-20, GMW-O-23, MW-SF-4, MW-SF-13, MW-SF-15, and TF-21. The distribution of dissolved benzene is similar to the distribution seen during recent sampling events as discussed below.

Benzene was detected in western off-site well WCW-7 (1.2 µg/L), southern off-site wells GMW-O-14 (5,700 µg/L), GMW-O-21 (4,300 µg/L), and MW-O-2 (9,400 µg/L), eastern off-site wells GMW-67 (2.6 µg/L) and GMW-69 (ranging up to 870 µg/L), and southeastern off-site well PZ-5 (1.7 µg/L).

Low concentrations of benzene were reported in the initial samples collected from EXP-2 (1.4 and 0.98 µg/L) on October 2 and 3, 2017, but were not detected (<0.50 µg/L) in the confirmation sample collected on October 25, 2017. Benzene was not detected at or above laboratory reporting limits in the samples collected from remaining Exposition Aquifer wells during the second semiannual 2017 sampling event.

Comparison of Current Conditions with Data Collected in April 2017

Since the first semiannual 2017 sampling event, benzene concentrations increased in eight wells and decreased in 22 wells. Benzene increased from non-detect (<0.50 µg/L) in two wells (EXP-2 and GMW-O-10) and decreased to non-detect (<0.50 µg/L) in 13 wells (GMW-9, GMW-28, GMW-60, GMW-61, GMW-O-16, GMW-O-19, GMW-O-24, GW-3, GW-16, MW-24, MW-26, MW-SF-1, and MW-SF-4).

Comparison of Current Conditions with Data Collected in October 2016

Since October 2016, benzene concentrations increased by 10 percent or more in six wells and decreased by 10 percent or more in 16 wells. Increases in benzene were noted in GMW-30, GMW-O-10, and GMW-O-21 in the south-central area, along the eastern border (GW-16 and PZ-5), and in western off-site well WCW-7. Since October 2016, benzene decreased in nine south-central area wells [GMW-9, GMW-23, GMW-O-14, GMW-O-20, GMW-O-23, MW-18(MID), MW-SF-6,

MW-SF-15, and PZ-2], in eastern off-site well GMW-67, and in six tank farm area wells [GMW-7, GMW-59, GW-15, MW-22(MID), MW-26, and TF-21].

4.1.3 1,2-Dichloroethane

The distribution of dissolved 1,2-DCA is shown on Figure 8. During this sampling event, 1,2-DCA was reported in 14 of the 114 sampled wells. Analytical results for 1,2-DCA in groundwater samples collected during this semiannual event ranged from non-detect (<0.50 µg/L) in many of the wells to 14 µg/L reported in MW-6 along the western border of the Site. 1,2-DCA was reported in western off-site wells WCW-3 (0.50 µg/L) and WCW-7 (4.8 µg/L) and southern off-site well GMW-O-10 (6.3 µg/L). 1,2-DCA was not detected in any other off-site wells during this sampling event. 1,2-DCA was reported at the historical high in GMW-25 and at historical lows in GMW-9 and MW-22(MID). 1,2-DCA was not detected (<0.50 µg/L) in monitoring well MW-22(MID) for the first time since May 1999. The current distribution of 1,2-DCA in groundwater is shown on Figure 8. Analytical results reflect a 1,2-DCA groundwater plume in the western area of the Site that extends off site to the northwest.

1,2-DCA was not detected at or above laboratory reporting limits in samples collected from the Exposition Aquifer wells during the second semiannual 2017 sampling event.

As summarized in Appendix E and shown on Figure 8, 1,2-DCA concentrations in groundwater in the vicinity of the West Side Barrier and in the western off-site area have remained consistently low since 2005. Pumping of the West Side Barrier wells was discontinued in August 2008; groundwater quality conditions in the area have been stable since then and will continue to be monitored.

Comparison of Current Conditions with Data Collected in April 2017

Since the April 2017 sampling event, 1,2-DCA concentrations increased in eight wells [GMW-26, GMW-36, GMW-O-10, GW-2, GWR-1R, MW-19(MID), MW-21(MID), and WCW-3] and decreased in five wells [EXP-3, GW-13, MW-6, MW-20(MID), and MW-22(MID)]. 1,2-DCA increased from non-detect (<0.50 µg/L) in GMW-36, GMW-O-10, and WCW-3 and decreased to non-detect (<0.50 µg/L) in EXP-3 and MW-22(MID). Comparing the 1,2-DCA plume based upon the October 2017 analytical results with the April 2017 1,2-DCA plume, the 1,2-DCA plume is in the same general area but extends further to the northwest (1,2-DCA detected in off-site well WCW-3) and further to the south (1,2-DCA detected in GMW-5 and off-site well GMW-O-10), but does not extend as far to the southwest (1,2-DCA not detected [<0.50 µg/L] in PW-3). 1,2-DCA was also reported in the southeastern corner of the Site (1.8 µg/L reported in GMW-36).

Comparison of Current Conditions with Data Collected in October 2016

Since October 2016, 1,2-DCA concentrations increased by 10 percent or more in five wells and increased by 10 percent or more in 10 wells. Increases in 1,2-DCA were noted on site in western wells GMW-25, GW-1, and MW-6, off site to the west in WCW-7, and off site to the south in GMW-O-10. 1,2-DCA decreased in on-site western wells GMW-8, GMW-9, GMW-26, GMW-30, GW-13, MW-7, MW-19(MID), MW-20(MID), and MW-22(MID), and in off site to the west in WCW-3.

4.1.4 Methyl Tertiary-Butyl Ether

The distribution of dissolved MTBE is shown on Figure 9. During this sampling event, MTBE was reported in 28 of the 114 sampled wells. Analytical results for MTBE in groundwater samples collected during this semiannual event ranged from non-detect in many of the wells to 210 µg/L reported in southern off-site well MW-O-2. MTBE was reported at the historical high in GMW-57 and was reported at historical lows in nine wells (GMW-9, GMW-28, GMW-30, GMW-O-23, MW-SF-1, MW-SF-4, MW-SF-6, MW-SF-13, and MW-SF-15). MTBE was not detected at or above laboratory reporting limits for the first time in MW-SF-1, and for the first time since August 1999 in MW-22(MID).

None of the Exposition Aquifer wells were reported to contain MTBE at or above laboratory reporting limits. MTBE was not detected (<0.50 µg/L) in eastern Exposition Aquifer well EXP-1 which was reported to contain low concentrations of MTBE during recent sampling events.

The distribution of MTBE in groundwater, based upon the current analytical results, is shown on Figure 9. The distribution of dissolved MTBE is similar to the distribution seen during recent sampling events as discussed below.

Comparison of Current Conditions with Data Collected in April 2017

Since the April 2017 sampling event, MTBE concentrations increased in 10 wells and decreased in 20 wells. MTBE increased from non-detect in six wells (GMW-19, GMW-47, GW-6, MW-15R, MW-24, and MW-27) and decreased to non-detect in six wells [EXP-1, GMW-14R, GMW-O-16, MW-22(MID), MW-SF-1, and MW-SF-4].

Based upon the analytical results for the October 2017 sampling event, MTBE was present in the south-central and western areas of the Site, near the truck rack area, in the tank farm area, and in the southeastern corner of the Site.

The dissolved MTBE present in the south-central and truck rack areas of the Site are not as extensive as in April 2017 (MTBE not detected in GMW-14R, MW-SF-1, or MW-SF-4), but extends further to the north in the truck rack area (MTBE reported in MW-15R).

Dissolved MTBE is present in the southeastern corner of the Site based upon MTBE detected in on-site well MW-8 and off-site well PZ-5. The plume is in the same general area as in April 2017, but does not extend as far to the southeast (MTBE not detected in GMW-O-16).

Dissolved MTBE detected in the tank farm area indicate small MTBE plumes at GMW-17R, GW-6, MW-6, MW-20(MID), MW-24, and MW-17 in the western area, and in the vicinity of GMW-35R, GMW-47, and GMW-57 in the eastern area. Comparing the distribution of MTBE in April 2017 with the plumes interpreted based upon October 2017 data, MTBE was present in three wells [GMW-57, MW-6, and MW-20(MID)] during both sampling events, was reported in October 2017 (but not in April 2017) in seven wells [GMW-17R (not sampled in April 2017), GMW-19, GMW-35R (not sampled in April 2017), GMW-47, GW-6, MW-24, and MW-27], and was not detected in GMW-16 (reported to contain 1.0 µg/L in the April 2017 duplicate sample).

Comparison of Current Conditions with Data Collected in October 2016

Since October 2016, MTBE concentrations increased by 10 percent or more in seven wells and decreased by 10 percent or more in 19 wells. Increases in MTBE were noted in in south-central area well GMW-25, truck rack area well MW-9, southeastern area well PZ-5, and tank farm wells GMW-47, GMW-57, GW-6, and MW-6. Since October 2016, MTBE decreased in 12 south-central wells [GMW-9, GMW-26, GMW-28, GMW-30, GMW-O-20, GMW-O-23, MW-18(MID), MW-19(MID), MW-SF-1, MW-SF-6, MW-SF-15, and PZ-2], eastern wells EXP-1, GMW-39, and MW-8, and tank farm wells GMW-7, GMW-8, MW-22(MID), and TF-8.

4.1.5 Tertiary-Butyl Alcohol

The distribution of dissolved TBA is shown on Figure 10. During this sampling event, TBA was reported in 24 of the 114 sampled wells. Analytical results for TBA in groundwater samples collected during this semiannual event ranged from non-detect (<10 µg/L) in many of the wells to 30,000 µg/L reported in the primary sample collected from southeastern off-site well PZ-5. TBA was reported at historical highs in five wells (GMW-25, GMW-26, GMW-28, GMW-30, and GMW-O-23) and was reported at historical lows in five wells [MW-9 (duplicate sample), MW-SF-6, MW-SF-13, MW-SF-15, and TF-9R]. TBA was detected for the first time in GMW-26 and GMW-O-23. This is the first time TBA was not detected (<10 µg/L) in TF-9R. The distribution of TBA in groundwater, based upon the current analytical results, is shown on Figure 10. The distribution of dissolved TBA is similar to the distribution reported during recent sampling events as discussed below.

TBA was not detected at or above laboratory reporting limits in the samples collected from Exposition Aquifer wells during the current sampling event.

Based upon the analytical results for the October 2017 sampling event, several areas of the Site are impacted by TBA. As shown on Figure 10, dissolved TBA plumes were interpreted in the south-central area of the Site, in the southeastern corner, and in the eastern tank farm. Smaller, isolated plumes were interpreted at truck rack area well MW-9 and in the tank farm area at GMW-17R and MW-20(MID).

Comparison of Current Conditions with Data Collected in April 2017

Since the April 2017 sampling event, TBA concentrations increased in seven wells and decreased in 12 wells. The south-central TBA plume is in the same general area as in April 2017, but extends further to the southwest in the vicinity of GMW-26 and does not extend as far to the northeast (TBA not detected in MW-SF-1), to the southeast (TBA not detected in GMW-O-14), and, due to the low concentrations reported in monitoring wells MW-19(MID) and MW-20(MID), a separate plume is shown at MW-20(MID). The TBA plume in the southeastern area of the Site is in the same general area. A large TBA plume was interpreted in the eastern tank farm due to TBA reported in GMW-47, GMW-57, and TF-21 (where TBA was not detected in April 2017) and in GMW-35R (not sampled in April 2017). The eastern tank farm plume does not extend as far to the east where 55 µg/L TBA was reported in GMW-60 in April 2017.

Comparison of Current Conditions with Data Collected in October 2016

Since October 2016, TBA concentrations increased by 10 percent or more in seven wells and decreased by 10 percent or more in nine wells. Increases in TBA were noted in four wells in the south-central area (GMW-23, GMW-25, GMW-26, and GMW-28) and in three wells in the eastern tank farm (GMW-47, GMW-57, and TF-21). TBA decreased by more than 10 percent since October 2016 in six south-central area wells [GMW-9, MW-18(MID), MW-19(MID), MW-SF-6, MW-SF-15, and PZ-2], southeastern off-site well PZ-5, and tank farm wells GMW-7 and MW-20(MID).

4.1.6 Other Fuel Oxygenates

Pursuant to the RWQCB's request in March 2009, analysis for other fuel oxygenates including diisopropyl ether (DIPE), ethyl tertiary-butyl ether (ETBE), and tertiary-amyl methyl ether (TAME) in accordance with USEPA Method 8260B was included in the October 2017 sampling event. ETBE was not detected at or above laboratory reporting limits in any of the samples collected during the October 2017 sampling event. TAME was reported in one well (1.8 µg/L in southeastern well GMW-36). DIPE was reported in 20 of the 114 sampled wells. Analytical results for DIPE in groundwater samples collected during this semiannual event ranged from non-detect in the majority of the wells to 190 µg/L in the primary and duplicate samples collected from south-central off-site well GMW-O-14.

Since April 2017, TAME decreased in two wells GMW-36 and PZ-5 [decreasing to non-detect (<2.0 µg/L) in PZ-5]. Since April 2017, DIPE increased in nine wells and decreased in six wells. DIPE increased from non-detect in GMW-26, GMW-O-21, and MW-6 and decreased to non-detect in MW-SF-4. DIPE was reported at historical highs in six wells (GMW-25, GMW-26, GMW-28, GMW-30, GMW-O-23, and MW-O-2) and at historical lows in six wells [GMW-9, GMW-30, MW-19(MID), MW-SF-4, MW-SF-6, and MW-SF-13].

4.2 Confirmation Sampling

Upon initial review of the laboratory data, some inconsistencies were noted when comparing results with historical data. Some of the inconsistencies may have been due to cross-contamination during sampling or analysis, as described below. To evaluate these inconsistencies and to confirm the presence of the reported analytes, nine monitoring wells (EXP-1, EXP-2, EXP-3, GMW-63, GMW-64, GMW-65, GMW-69, GW-3, and MW-24) were resampled on October 25, 2017.

During initial field sampling and laboratory analysis, groundwater samples were collected and analyzed from GMW-69, followed by GW-3, EXP-2, and MW-24 (in that order). Review of the analytical data showed that the majority of the analytes detected in GMW-69 were also present in GW-3, EXP-2, and MW-24 at steadily decreasing concentrations (e.g., benzene was reported in all four wells: 220 µg/L in GMW-69, 2.4 µg/L in GW-3, 1.4 µg/L in EXP-2, and 1.0 µg/L in MW-24). The data for GMW-69 were within the historical range of recent concentrations, however the data for GW-3, EXP-2, and MW-24 were not comparable with recent concentrations reported in those wells.

To confirm whether the reported analytes were present in these samples, all four wells (including GMW-69) were resampled and analyzed for TPHd and VOCs.

The remaining inconsistencies were related to the presence of TPHd in Exposition Aquifer wells EXP-1 and EXP-3 and in eastern off-site sentry wells GMW-63, GMW-64, and GMW-65. TPHd were reported in all five wells at concentrations ranging from 100 µg/L in GMW-65 and in the sample collected by Blaine Tech from EXP-3 to 310 µg/L in the duplicate sample collected from EXP-1. Although TPHd has been reported intermittently and at similar concentrations in the EXP-1, EXP-2, and EXP-3, it is a rare occurrence. The last time TPHd were reported in these wells was in October 2013 (when 130 µg/L TPHd were reported in EXP-1 and 140 µg/L TPHd were reported in EXP-2) and in July 2012 (when 190 µg/L TPHd were reported in EXP-3). TPHd have never been reported in GMW-63 or GMW-64 and were reported only one time in GMW-65 (210 µg/L in October 2013). To confirm the presence of TPHd in EXP-1, EXP-3, GMW-63, GMW-64, and GMW-65, these wells were resampled and analyzed for TPHd.

4.2.1 Confirmation Sampling Results for GMW-69, GW-3, EXP-2, and MW-24

The presence of TPHd, BTEX compounds, and detected VOCs (Tables 4 and 5) were confirmed in GMW-69, and all concentrations were higher in the confirmation sample. All of the BTEX compounds and VOCs reported in the initial samples from GW-3, EXP-2, and MW-24 were non-detect in the confirmation samples (TPHd concentrations in the confirmation samples were similar to the TPHd concentrations reported in the initial samples). These results suggest that the BTEX compounds and VOCs reported in the initial samples from GW-3, EXP-2, and MW-24 are likely due to cross-contamination and will continue to be evaluated during future sampling events.

4.2.2 Confirmation Sampling Results for EXP-1, EXP-3, GMW-63, GMW-54, and GMW-65

The presence of TPHd was confirmed in Exposition Aquifer well EXP-1, but TPHd was not detected (<100 µg/L) in the confirmation sample from EXP-3. The presence of TPHd was confirmed in eastern off-site wells GMW-63, GMW-64, and GMW-65, and concentrations in all three confirmation samples increased as compared with concentrations reported in the initial samples.

4.2.3 Proposed Additional Sampling

Due to the reported presence of TPHd in Exposition Aquifer wells and the apparently increasing concentrations of TPHd in eastern off-site wells, additional sampling is proposed. To further evaluate TPHd in these wells, quarterly samples will be collected from EXP-1, EXP-2, EXP-3, GMW-63, GMW-64, GMW-65, and GMW-69 beginning with the first quarter 2018. The samples collected from eastern off-site wells GMW-63, GMW-64, GMW-65, and GMW-69 will also be analyzed for BTEX compounds, fuel oxygenates, and VOCs. Analytical results for these wells will continue to be evaluated to assess the need for further quarterly sampling.

4.3 Quality Assurance/Quality Control

American Analytics and Alpha Analytical did not report any significant quality assurance/quality control issues with the analytical work performed as part of the October 2017 semiannual event. A total of 15 duplicate groundwater samples, three split samples, 10 trip blanks, and 12 equipment blanks were submitted for analysis. Analytical results for duplicate, split, and confirmation groundwater samples and trip/equipment blanks are summarized in Tables 6 and 7, respectively. Results for duplicate and split samples were comparable with the results reported for the primary samples. The trip blank and equipment blank samples were non-detect for all analytes.

4.4 Water Disposal

Purged groundwater from DF-FEE sampling activities was treated at DF-FEE's on-site remediation system located in the northern portion of the Site and discharged under National Pollutant Discharge Elimination System (NPDES) Permit No. CAG994004. Purged groundwater extracted by Blaine Tech on behalf of SFPP was treated at SFPP's on-site remediation system located in the south-central area of the Site and discharged under NPDES Permit No. CA0063509.

4.5 Health and Safety

Field activities were conducted in accordance with the Site-specific health and safety plans. The health and safety plans include protocol for safe work practices during the field portion of the project. Personnel working at the Site were required to read, sign, and adhere to the health and safety plans. The health and safety plans were in effect throughout the monitoring event.

5.0 REMEDIATION SYSTEM OPERATIONS AND EFFECTIVENESS

5.1 System Operations

SFPP and DF-FEE currently submit quarterly remediation progress reports to the RWQCB and Restoration Advisory Board (RAB) to provide details of the remediation system operations. DF-FEE created a website (Norwalkrab.com) to house project information, which includes agendas, minutes, and presentations from RAB meetings dating back to 1994. In addition, historical project information and reports can be located in the information repository at the Norwalk Regional Library.

Both SFPP and DF-FEE remediation systems were off line at least one week prior to conducting semiannual monitoring in October 2017 to allow fluid levels to recover to near static conditions prior to gauging wells at the Site. SFPP's West Side Barrier groundwater extraction (GWE) system, which includes wells BW-1 through BW-9, has been shut down since August 2008. The north-central biosparging remediation system is currently offline due to soil cleanup activities that were recently completed (final soil closure report pending) with operations anticipated to resume on an expanded basis during early 2018.

5.1.1 DF-FEE

Remediation technologies utilized at the Site include soil vapor extraction (SVE), groundwater extraction (GWE), biosparging, and light, non-aqueous phase liquid (LNAPL) removal via manual bailing, vacuum truck, passive skimming, active pumping using a portable skimming pump, and absorbent socks at specific wells. DF-FEE conducts GWE from two pumping wells (GW-2 and GW-13) in the northwestern corner of the Site and from two wells (GW-15 and GW-16) in the northeastern area bordering Holifield Park. Treated effluent is discharged to a storm drain in accordance with NPDES Permit No. CAG994004. The GWE system is operated to contain and reduce the extent of the floating product and dissolved plumes. The aboveground treatment of contaminated vadose zone soils excavated at the Site was also conducted from April 2015 to March 2017 (final soil closure report pending) with ongoing SVE from horizontal wells that span the entire former aboveground tank farm area and from the northeastern boundary area. An automated product-recovery system has been operating since August 2016. The system consists of four pneumatically activated product-removal pumps deployed in key wells located in the north-central portion of the Site, including wells TF-16 and wells in the TF-18 area. The recovered product is routed to an aboveground storage tank located within the existing treatment compound via double-contained conveyance piping for subsequent off-site removal by a licensed transport, recycling, and disposal company. The biosparge system is currently off line due to ongoing soil cleanup activities; a new, higher capacity air-spargе blower has been ordered and will be installed during the first half of 2018.

SGL, on behalf of DF-FEE, has completed shallow soil remediation at DFSP Norwalk (excavation and on-site treatment of contaminated vadose zone soils to depths up to 25 feet bgs), with approximately 107,000 cubic yards excavated and 70,000 cubic yards of soil treated. The goal of this remediation was to remove source-area soils that continue to contribute to the degradation of

groundwater and to ready the real property of the Site for eventual conveyance. This remediation was conducted in accordance with the RWQCB-approved *Soil Remedial Action Plan* (SGI, 2014), *Revised Field Sampling and Analysis Plan and Sampling Strategy* (SGI, 2015b), *Workplan for VOC Analysis Results Validation* (SGI, 2015c), and *Proposed Addendum to the Soil Cleanup Goals* (SGI, 2015e). Soils in areas identified for remediation were excavated and treated on site. After the RWQCB reviewed confirmation sample results, the RWQCB approved the treated soil for reuse as backfill for the remedial excavations. All soil has been treated and all excavations have been filled.

5.1.2 SFPP

The remediation systems operated by SFPP consist of SVE, TFE, GWE, and treatment of extracted soil vapor and groundwater to address two specific areas at and near the site: the south-central area and the southeastern area. Biosparging is also employed in the south-central area to enhance natural attenuation of hydrocarbon constituents. SFPP also previously operated a GWE system for remediation of the western off-site area (or West Side Barrier area). SFPP is currently extracting total fluids from seven wells in the south-central area (GMW-9, GMW-10, GMW-O-11, GMW-O-20, GMW-O-23, MW-SF-3, and MW-SF-15) and from four wells in the southeastern 24-inch block valve area (GMW-36, GMW-O-15, GMW-O-18, and GMW-SF-9). SFPP's TFE and GWE systems are designed to contain and reduce the extent of free product, provide hydraulic capture of dissolved constituents of concern, and lower the free product surface (where present) and groundwater table, thus exposing more hydrocarbon-impacted soil for SVE. Additionally, SFPP conducts manual bailing of free product in selected wells, as needed.

SFPP installed a horizontal biosparge system in the south-central area of the Site in December 2015. The biosparge well is constructed of 4-inch-diameter, Schedule 80 polyvinyl chloride (PVC) casing and screen completed to a vertical depth of approximately 45 feet bgs. The lateral distance of the screened interval is 600 feet, which is centered below the central portion of the south-central area hydrocarbon plume. Further details regarding the construction of the biosparge well is documented in the report titled, *Horizontal Biosparge Well and Soil Vapor Monitoring Probe Completion Report, SFPP Norwalk Pump Station, 15306 Norwalk Boulevard, Norwalk, California* (CH2M, 2015b).

The compressor used to deliver ambient air to the biosparge well has a maximum design rate of approximately 500 standard cubic feet per minute (scfm). SFPP's SVE system has an interlock that ensures the biosparge system cannot operate unless the SVE system is operating. Operation of the SVE system reduces the potential for off-gassing of VOCs during biosparge operations. Pilot testing of the biosparge system commenced in early January 2016 and continued through October 2016. Soil vapor data collected as part of the pilot testing have been submitted to the RWQCB and Restoration Advisory Board (RAB) under separate cover. A comprehensive evaluation report that incorporates soil vapor and groundwater data was submitted to the RWQCB in August 2017 (CH2M, 2017b). The biosparge system was restarted on June 27, 2017, after installation and start-up of the new regenerative thermal oxidizer (RTO).

5.2 System Effectiveness

Based on the results presented in this report, the data indicate that DF-FEE's remediation systems in the north-central area and SFPP's remediation systems in the south-central and southeastern areas are effectively containing dissolved-phase constituents across the Site. The lateral extent of dissolved-phase plumes appears to be stable and consistent with previous monitoring events. Dissolved-phase constituents in the eastern and western off-site areas have been non-detect or at concentrations near the laboratory reporting limit, indicating the plumes have been generally contained on site. The extent of the plume in the eastern area is interpreted to extend off site beneath the western portion of Holifield Park, upgradient from the Site. The planned expansion of remediation by SVE and biosparging in the eastern part of the Site is expected to provide additional remediation of groundwater to address on-site and off-site groundwater contamination in the eastern part of the Site.

In the south-central area, the off-site extent of dissolved-phase constituents is limited to areas north of Cheshire Street, which is consistent with previous monitoring events. SFPP will continue to extract groundwater in the south-central area and monitor for MTBE and other constituents. The magnitude and extent of Free product in the south-central area have declined substantially since October 2015 (pre-biosparge conditions). It is believed that the decrease in product thickness and areal extent is a result of biosparge operations that have been implemented in the south-central area between January and October 2016. The biosparge system was restarted on June 27, 2017, after installation and start-up of the new RTO system.

In the southeastern area, the lateral extent of the dissolved-phase plume has been relatively stable since hydrocarbon constituents were pulled downgradient from wells GMW-36 and GMW-O-15 after extraction activities were initiated at well GMW-O-18 in April 2010 in response to a request from the RWQCB. Downgradient well GMW-O-24 has not had detectable hydrocarbon constituents since June 2015, demonstrating that the plume is stable. SFPP will continue to extract groundwater in the southeastern area and monitor for MTBE and other constituents. SFPP installed a second horizontal biosparge well in November 2017 to address dissolved hydrocarbons in this part of the Site.

Accumulation of floating product in some wells can be attributed to declining water levels across the site as discussed in Section 3.2. During the second semiannual 2017 groundwater monitoring event, water levels in the uppermost groundwater zone were observed to be at historical lows. Total fluids extraction and/or manual product recovery operations (i.e., hand-bailing) will continue to maximize product removal across the Site.

The low detections of MTBE and 1,2-DCA in the western area do not warrant restarting the SFPP West Side Barrier treatment system, however, hydrocarbon constituents will continue to be monitored in this area.

SGI on behalf of DF-FEE, has completed shallow soil remediation at the Site (excavation and on-site treatment of contaminated vadose zone soils to depths up to 25 feet), with approximately 70,000 cubic yards of soil treated and backfilled. Confirmation sampling of soil and soil gas have demonstrated that the Site is acceptable for park, commercial, or industrial usage. Following this

shallow soil remediation, the DF-FEE remediation is focusing on remediating the deeper soil smear zone and groundwater with the primary objective of maximized LNAPL removal. An evaluation of existing Natural Source Zone Depletion conditions is also planned to confirm the capacity of the Site to attenuate hydrocarbons.

6.0 SUMMARY

This section presents a summary of findings, data evaluation, and recommendations, if warranted, associated with the second semiannual 2017 groundwater monitoring and sampling event conducted at the DFSP Norwalk. During the second semiannual 2017 event, liquid levels in 230 monitoring well were gauged and groundwater samples were collected from 114 wells. Including duplicate, split, and confirmation samples, a total of 140 groundwater samples were analyzed.

6.1 Groundwater Elevation and Gradient Conditions

Based upon the gauging results, groundwater elevations in the uppermost groundwater zone (excluding wells containing measurable floating product) ranged from 35.41 to 43.32 feet above MSL. Since the April 2017 monitoring event, groundwater elevations dropped an average of 1.66 feet in uppermost groundwater zone wells that did not contain floating product. Based upon the gauging data collected in October 2017, the groundwater surface is generally characterized by a groundwater depression in the south-central area with gradients converging toward this depression. The depression is likely an effect of biosparge system operations in this area of the Site.

Groundwater elevations in the Exposition Aquifer wells ranged from 17.46 to 17.78 feet MSL. Since the April 2017 monitoring event, elevations in Exposition Aquifer wells dropped an average of 0.58 foot. The groundwater gradient in the Exposition Aquifer is generally flat beneath the Site with gradients converging toward the Site from the northwest and southeast at approximately 0.0003 ft/ft.

6.2 Distribution of Floating Product

During this semiannual monitoring event, measurable floating product was observed in 17 of the 230 wells that were gauged:

- North-central area: EP-73, GMW-18, GMW-21, GW-14R, RTF-18-E, RTF-18-N, RTF-18-NNW, RTF-18-NW, RTF-18-W, TF-16, and TF-18;
- Eastern area: GMW-62 and GMW-68;
- South-central area: GMW-29 and GMW-O-12; and
- Southeastern area: GMW-O-15 and GMW-O-18.

Floating product was detected at measured thicknesses ranging from an 0.01 foot in GMW-62 to 1.70 feet in TF-18. Since the April 2017 monitoring event, measured product thicknesses increased in 10 wells and decreased in 13 wells. Overall, product thicknesses increased by an average of 0.07 foot since April 2017. Changes in measured product thickness ranged from an increase of 1.70 feet in TF-18 to a decrease of 3.00 feet in GMW-O-12.

Monitoring data show considerable reduction in floating product throughout the Site. The decline in product thickness in GMW-O-12 and other wells in the south-central area can be attributed to biosparging operations. Total fluids extraction in wells across the Site will continue to optimize

product recovery. Manual bailing of product will also continue in wells that are not equipped for total fluids extraction.

Current product thicknesses, based upon the most recent gauging data, were compared with historical maximum product thicknesses. Substantial reduction in measured product thicknesses was indicated throughout the Site. Of the 94 wells that have historically contained floating product, only 17 wells were reported to contain floating product based upon the most recent gauging data for each well. Measured product thicknesses have declined by 90 percent or more from historical maximum thicknesses in 74 of the 87 wells that have historically contained floating product.

6.3 Dissolved-Phase Constituents

6.3.1 Total Petroleum Hydrocarbons

TPHg was detected in 26 of the 114 sampled wells and TPHd was detected in 72 of the 114 sampled wells. Concentrations of TPHg ranged up to 23,000 µg/L in south-central area off-site well MW-O-2 (a well reported to contain 0.49 foot of floating product in April 2016). Concentrations of TPHd ranged up to 71,000 µg/L in south-central on-site well MW-SF-6. TPH were reported in Exposition Aquifer wells EXP-1 (ranging from 220 to 310 µg/L [the historical high]), EXP-2 (140 and 150 µg/L; note that TPHd were not detected in a third sample collected from EXP-2), and EXP-3 (100 and 160 µg/L; note that TPHd were not detected in a third sample collected from EXP-3).

Since April 2017, TPHg concentrations increased in six wells and decreased in 16 wells. TPHg increased from non-detect in MW-26 and PZ-2 and decreased to non-detect in GMW-9, GMW-58, GMW-60, GMW-61, GMW-O-16, GMW-O-19, GMW-O-23, and MW-SF-13. TPHg were reported at historical lows in GMW-4R, GMW-7, GMW-9, GMW-30, GMW-48, GMW-59, GMW-O-23, GW-15, MW-15R, MW-SF-6, MW-SF-13, MW-SF-15, and TF-21. This is the first time TPHg were not detected in GMW-9, GMW-O-23, and MW-SF-13. TPHg were not reported in samples collected from the Exposition Aquifer wells during this sampling event.

Since the April 2017 sampling event, TPHd concentrations increased in 42 wells, decreased in 21 wells, and remained the same in GMW-O-23. TPHd increased from non-detect in 20 wells and decreased to non-detect in four wells. TPHd were reported for the first time in GMW-63 (170 and 440 µg/L), GMW-64 (220 and 620 µg/L), and MW-16 (100 µg/L). TPHd were reported at historical highs in EXP-1, GMW-6, GMW-8, GMW-25, GMW-42, GMW-63, GMW-64, GMW-65, GMW-67, GMW-69, GW-3, MW-16, MW-17, MW-SF-6, TF-24, and WCW-7 and were reported at historical lows in GMW-7, GMW-9, GMW-17R, GMW-36, GMW-O-21, GW-15, MW-15R, and MW-SF-1.

Compared with the TPH plumes interpreted based upon data collected in April 2017, the distribution of dissolved TPH is similar but extends further to the north (TPH reported in GMW-6, GMW-56, GW-3, GW-8, MW-13, and MW-24) and east (TPH reported in on-site wells MW-17 and eastern off-site wells GMW-63, GMW-64, and GWM-65). The TPH plume does not extend as far to the northeast (not detected in GMW-66R) or to the southeast (not detected in GMW-O-16). TPH was not detected in western off-site wells WCW-2 or WCW-13, but were reported in western off-site well WCW-7 (not sampled in April 2017). The south-central plume extends further to the west (TPH

reported in HL-2) but does not extend as far to the south (TPH not detected in southern off-site well GMW-O-3).

6.3.2 Benzene

Benzene was reported in 32 of the 114 sampled wells. Benzene concentrations ranged from non-detect (<0.50 µg/L) in many of the wells to 9,400 µg/L reported in southern off-site well MW-O-2.

Since April 2017, benzene concentrations increased in eight wells and decreased in 22 wells. Benzene increased from non-detect (<0.50 µg/L) in EXP-2 and GMW-O-10 and decreased to non-detect in 13 wells. This is the first time benzene was reported in western off-site well WCW-7. Benzene was non-detect for the first time in monitoring well GMW-9. Benzene was reported at historical highs in GMW-69, GW-3, TF-9R, and WCW-7 and at historical lows in GMW-4R, GMW-7, GMW-9, GMW-O-20, GMW-O-23, MW-SF-4, MW-SF-13, MW-SF-15, and TF-21.

6.3.3 1,2-Dichloroethane

1,2-DCA was reported in 14 of the 114 sampled wells. 1,2-DCA concentrations ranged from non-detect (<0.50 µg/L) in many of the wells to 14 µg/L reported in MW-6 along the western border of the Site. 1,2-DCA was reported in western off-site wells WCW-3 (0.50 µg/L) and WCW-7 (4.8 µg/L) and southern off-site well GMW-O-10 (6.3 µg/L). 1,2-DCA was not detected in any other off-site wells during this sampling event. 1,2-DCA was not detected in any of the Exposition Aquifer wells during this sampling event.

Since April 2017 sampling event, 1,2-DCA concentrations increased in eight wells and decreased in five wells. 1,2-DCA increased from non-detect in GMW-36, GMW-O-10, and WCW-3 and decreased to non-detect in EXP-1 and MW-22(MID). 1,2-DCA was reported at the historical high in GMW-25 and at historical lows in GMW-9 and MW-22(MID). 1,2-DCA was not detected (<0.50 µg/L) in monitoring well MW-22(MID) for the first time since May 1999.

Analytical results reflect a 1,2-DCA groundwater plume in the western area of the Site that extends off site to the northwest. The 1,2-DCA plume is in the same general area as in April 2017 but extends further to the northwest and south and does not extend as far to the southwest. 1,2-DCA was also reported in the southeastern corner of the Site (1.8 µg/L reported in GMW-36).

6.3.4 Methyl Tertiary-Butyl Ether

MTBE was reported in 27 of the 114 sampled wells. Concentrations of MTBE ranged from non-detect in many of the wells to 210 µg/L reported in the south-central off-site well MW-O-2. MTBE was reported in southern off-site wells GMW-O-20, GMW-O-23, and MW-O-2 and in southeastern off-site well PZ-5. MTBE was not detected in any of the Exposition Aquifer wells during this investigation.

Since the April 2017 sampling event, MTBE concentrations increased in 10 wells and decreased in 20 wells. MTBE increased from non-detect in six wells and decreased to non-detect in six wells. MTBE was reported at the historical high in GMW-57 and was reported at historical lows in nine wells

(GMW-9, GMW-28, GMW-30, GMW-O-23, MW-SF-1, MW-SF-4, MW-SF-6, MW-SF-13, and MW-SF-15). MTBE was not detected at or above laboratory reporting limits for the first time in MW-SF-1, and for the first time since August 1999 in MW-22(MID).

The distribution of dissolved MTBE is similar to the distribution seen during recent sampling events. Based upon the analytical results for the October 2017 sampling event, MTBE was present in the south-central area, near the truck rack area, in the tank farm area, and in the southwestern corner of the Site.

6.3.5 Tertiary-Butyl Alcohol

TBA was reported in 24 of the 114 sampled wells. Concentrations of TBA ranged from non-detect (<10 µg/L) in many of the wells to 30,000 µg/L reported in the primary sample collected from southeastern off-site well PZ-5. TBA was not detected in any of the Exposition Aquifer wells during this sampling event.

Since the April 2017 sampling event, TBA concentrations increased in seven wells and decreased in 12 wells. TBA was reported at historical highs in five wells (GMW-25, GMW-26, GMW-28, GMW-30, and GMW-O-23) and was reported at historical lows in five wells [MW-9 (duplicate sample), MW-SF-6, MW-SF-13, MW-SF-15, and TF-9R]. TBA was detected for the first time in GMW-26 and GMW-O-23. This is the first time TBA was not detected (<10 µg/L) in TF-9R.

The distribution of dissolved TBA is similar to the distribution seen during recent sampling events. Based upon the analytical results for the October 2016 sampling event, several areas of the Site are impacted by TBA. TBA plumes were interpreted in the south-central area of the Site, in the southeastern corner, and in the eastern tank farm. Smaller, isolated plumes were interpreted at truck rack area well MW-9 and in the tank farm area at GMW-17R and MW-20(MID).

6.3.6 Other Fuel Oxygenates

Groundwater samples collected during the October 2017 sampling event were analyzed for additional fuel oxygenates including ETBE, DIPE, and TAME. ETBE was not detected at or above laboratory reporting limits in any of the samples. TAME was reported in one well (1.8 µg/L in southeastern well GMW-36). DIPE was reported in 20 of the 114 sampled wells. Analytical results for DIPE in groundwater samples collected during this semiannual event ranged from non-detect in the majority of the wells to 190 µg/L in the primary and duplicate samples from south-central off-site well GMW-O-14.

Since April 2017, TAME decreased in two wells. DIPE increased in nine wells and decreased in six wells since April 2017. DIPE increased from non-detect in three wells and decreased to non-detect in MW-SF-4. DIPE was reported at historical highs in six wells (GMW-25, GMW-26, GMW-28, GMW-30, GMW-O-23, and MW-O-2) and at historical lows in six wells [GMW-9, GMW-30, MW-19(MID), MW-SF-4, MW-SF-6, and MW-SF-13]. Fuel oxygenates will continue to be monitored, and results will be further assessed to determine whether additional actions are necessary.

6.3.7 Proposed Additional Sampling

Due to the reported presence of TPHd in Exposition Aquifer wells and the apparently increasing concentrations of TPHd in eastern off-site wells, additional sampling is proposed. To further evaluate TPHd in these wells, quarterly samples will be collected from EXP-1, EXP-2, EXP-3, GMW-63, GMW-64, GMW-65, and GMW-69 beginning with the first quarter 2018. The samples collected from eastern off-site wells GMW-63, GMW-64, GMW-65, and GMW-69 will also be analyzed for BTEX compounds, fuel oxygenates, and VOCs.

7.0 LIMITATIONS

This document was prepared for the exclusive use of the DF-FEE and the RWQCB for the express purpose of complying with a client- or regulatory directive for environmental investigation or restoration. The presented findings and recommendations in this report are intended to be taken in their entirety to assist DF-FEE and RWQCB personnel in applying their own professional judgment in making decisions related to the property. SGI and DF-FEE must approve any re-use of this work product in whole or in part for a different purpose or by others in writing. If any such unauthorized use occurs, it shall be at the user's sole risk without liability to SGI or DF-FEE. To the extent that this report is based on information provided to SGI by third parties, including DF-FEE, their direct contractors, previous workers, and other stakeholders, SGI cannot guarantee the completeness or accuracy of this information, even where efforts were made to verify third-party information.

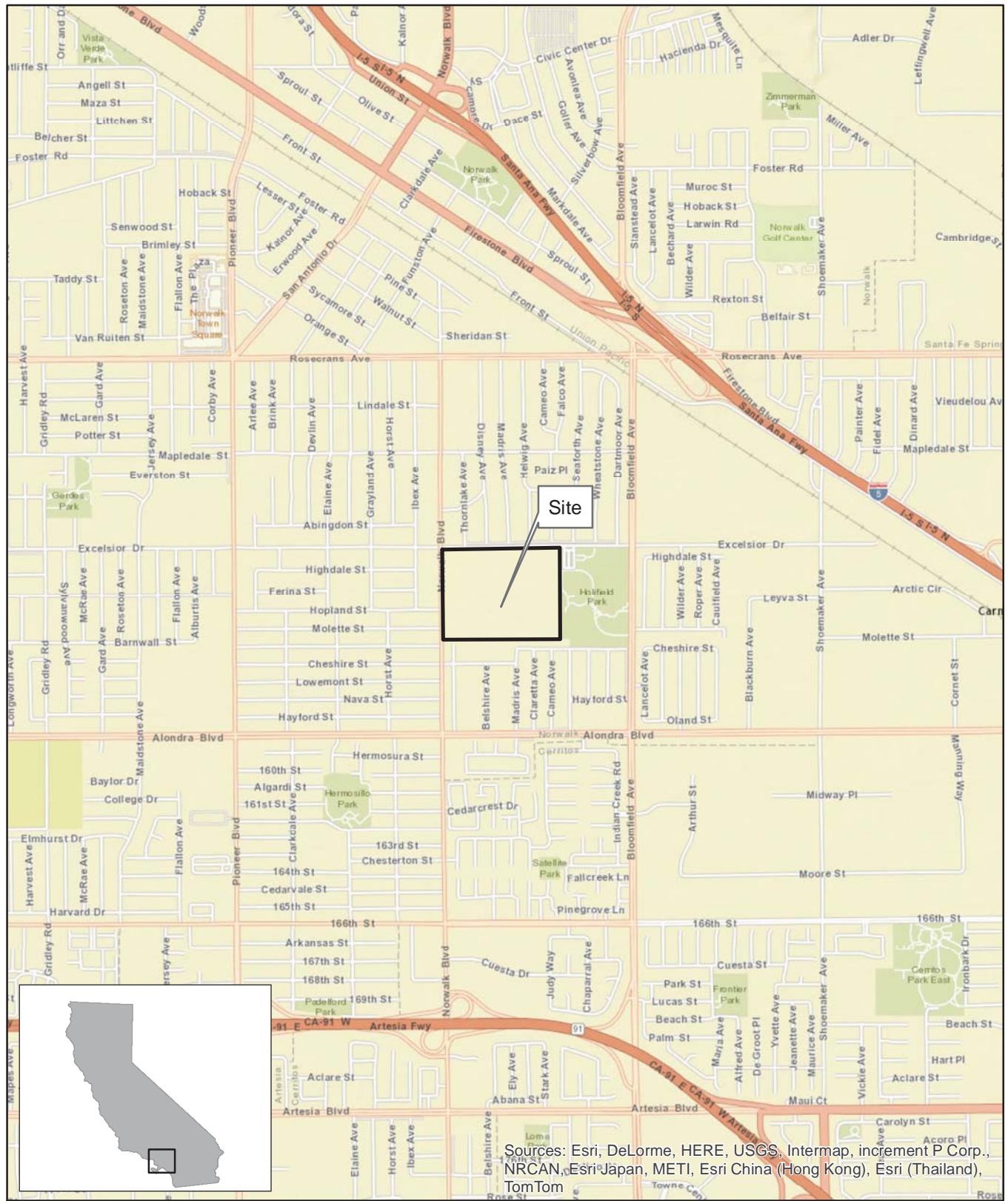
SGI has exercised professional judgment to collect and present findings and opinions of a scientific and technical nature. The opinions expressed are based on the conditions of the Site existing at the time of the field investigation, current regulatory requirements, and any specified assumptions. SGI cannot provide conclusions on environmental conditions outside the completed scope of work. SGI cannot guarantee that future conditions will not change and affect the validity of the presented conclusions and recommended work. No warranty or guarantee, whether expressed or implied, is made with respect to the data or the reported findings, observations, conclusions, and recommendations.

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FIGURES



Sources: Esri, DeLorme, HERE, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom

SOURCE:
ESRI 7.5 MINUTE TOPOGRAPHIC MAP.
<http://resources.esri.com/arcgisonline/services>

PROJECT NO.:	DATE:	DR. BY:	APP. BY:
04-NDLA-001	5/28/2014	JK	PP

SCALE= 1:24,000

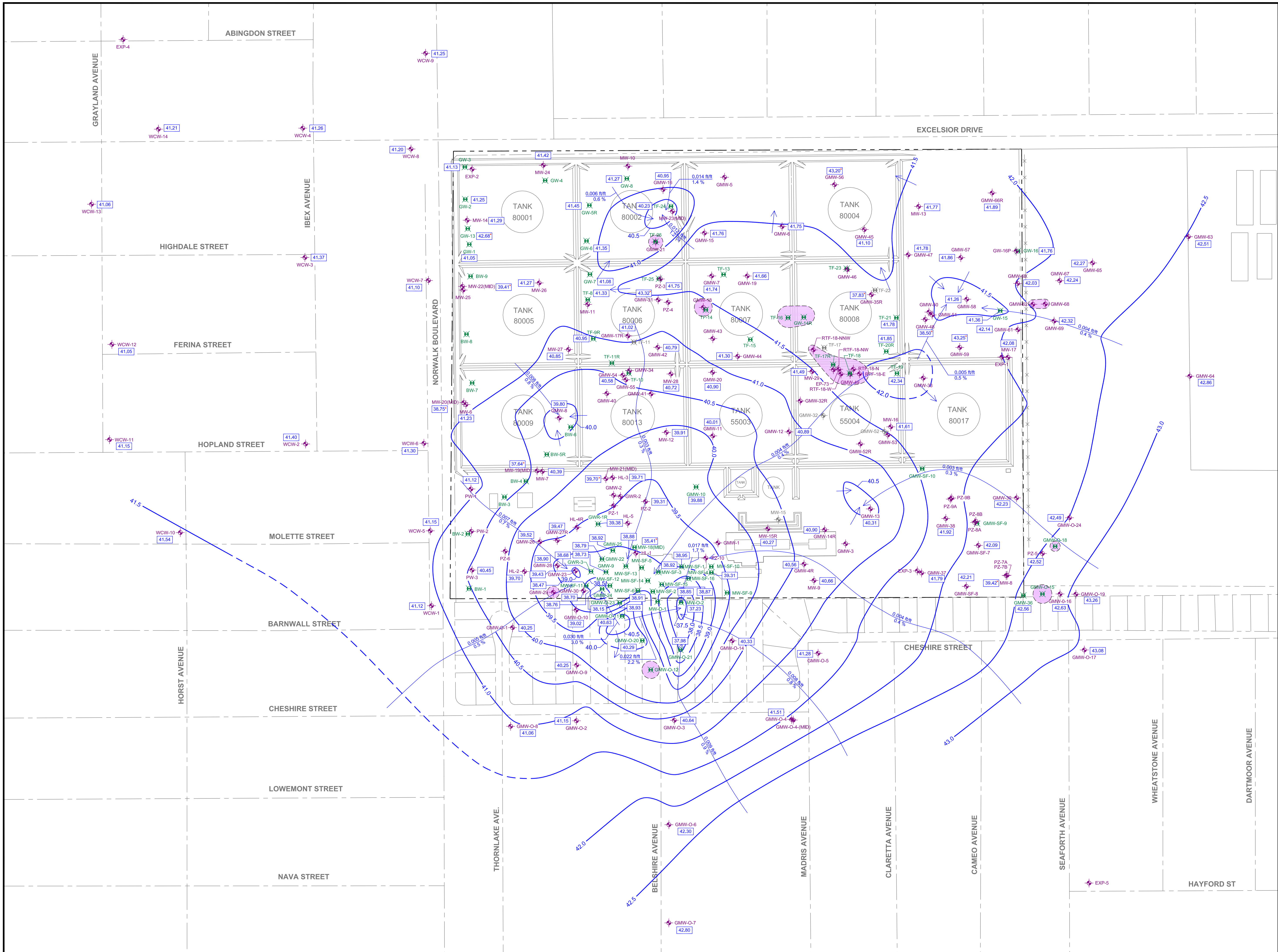


FIGURE
1

SGI THE SOURCE GROUP, INC.
environmental
1962 FREEMAN AVENUE
SIGNAL HILL, CA 90755
(562) 597-1055

**DEFENSE FUEL SUPPORT POINT
NORWALK**
15306 NORWALK BOULEVARD
NORWALK, CALIFORNIA

SITE LOCATION MAP



EXPLANATION:

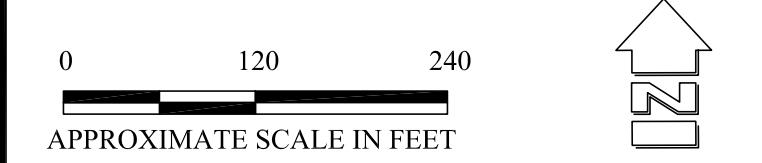
- FORMER ABOVEGROUND STORAGE TANKS
- DFSP NORWALK BORDER
- GROUNDWATER MONITORING WELL
- WELLS SHOWN IN GREY WERE DECOMMISSIONED BY DLA ENERGY PRIOR TO REMEDIAL EXCAVATION
- EXTRACTION WELL USED FOR VAPOR, GROUNDWATER, TOTAL FLUIDS, OR FLOATING PRODUCT EXTRACTION
- GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL MEASURED OCTOBER 2-3, 2017
- ASTERISK INDICATES DATA NOT USED TO DEVELOP THIS EQUIPOTENTIAL MAP
- LINE OF EQUAL GROUNDWATER ELEVATION (REFERENCE = MEAN SEA LEVEL) CONTOUR INTERVAL = 0.5 FOOT DASHED WHERE INFERRED
- GROUNDWATER GRADIENT DIRECTION WITH GRADIENT IN FEET PER FOOT (F/F) AND PERCENT; DASHED WHERE INFERRED
- ESTIMATED EXTENT OF MEASURABLE LIGHT NONAQUEOUS PHASE LIQUID (LNAPL, FLOATING PRODUCT) ON GROUNDWATER REFER TO FIGURE 4 OR TABLE 2 FOR MEASURED THICKNESSES

NOTES:

1. GROUNDWATER ELEVATIONS AND INTERPRETED PRODUCT EXTENT ARE BASED ON DATA COLLECTED BY SGI & BLAINE TECH SEPTEMBER 26-27 AND OCTOBER 2-4, 2017.
2. DLA ENERGY'S AND SFPP'S REMEDIATION SYSTEMS WERE SHUT DOWN APPROXIMATELY ONE WEEK PRIOR TO COLLECTING FLUID LEVEL MEASUREMENTS IN OCTOBER 2017.
3. WELLS SCREENED IN THE EXPOSITION AQUIFER OR NEAR THE BOTTOM OF THE UPPERMOST AQUIFER ARE NOT USED IN CONTOURING.

SURVEY NOTES:

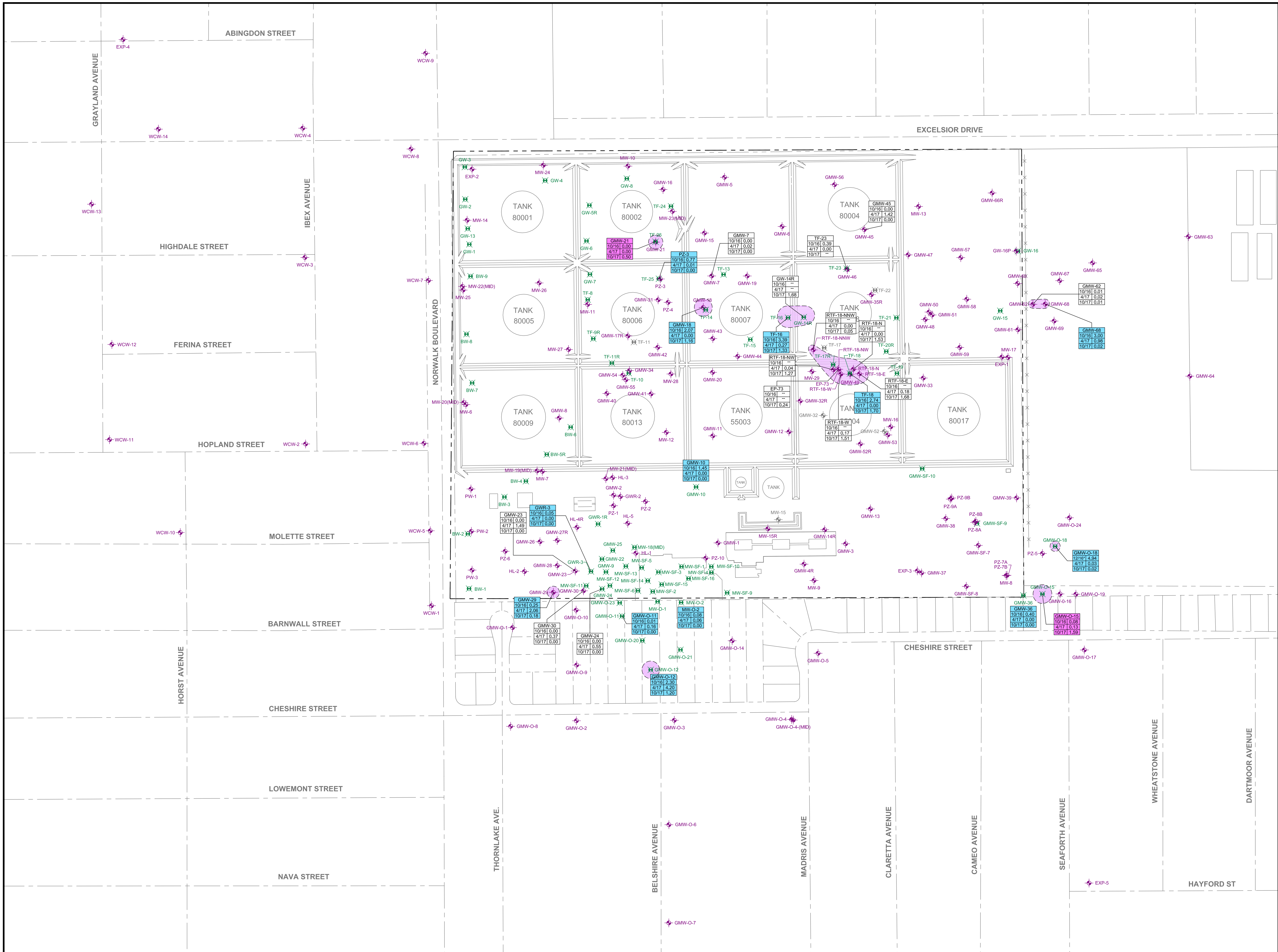
1. BASE MAP PREPARED FROM DATA PROVIDED BY FLUOR DANIEL GTI, DULIN & BOYNTON, GEOMATRIX, AND PARSONS
2. EXCEPT AS NOTED BELOW, WELL LOCATIONS SURVEYED BY DULIN & BOYNTON
3. LOCATIONS OF WELLS HL-1, HL-3, AND HL-4 BASED ON FIELD MEASUREMENTS BY FLUOR DANIEL GTI AND WOODWARD-CLYDE



DATE: 11/2017	FILE NAME: DFSP-Norwalk-SE2-17.dwg
PROJECT No.: 091-NDLA-018	CONTRACT: SPO-600-14-D-5410

GROUNDWATER EQUIPOTENTIAL AND GRADIENT MAP UPPERMOST GROUNDWATER ZONE OCTOBER 2-3, 2017

DFSP NORWALK
15306 NORWALK BOULEVARD
NORWALK, CALIFORNIA



EXPLANATION:

- FORMER ABOVEGROUND STORAGE TANKS
 - DFSP NORWALK BORDER
 - GROUNDWATER MONITORING WELL
 - EXTRACTION WELL USED FOR VAPOR, GROUNDWATER, TOTAL FLUIDS, OR FLOATING PRODUCT EXTRACTION
 - WELLS SHOWN IN GREY WERE DECOMMISSIONED BY DLA ENERGY PRIOR TO REMEDIAL EXCAVATION
- GMW-23**

10/16	0.00
4/17	1.49
10/17	0.00

 MEASURED PRODUCT THICKNESS IN FEET FOR THE THREE MOST RECENT SEMIANNUAL EVENTS; WHERE THE DATASET IS SHOWN IN WHITE, THE MEASURED THICKNESS HAS REMAINED SIMILAR (CHANGE IS LESS THAN 10%) AT THAT LOCATION SINCE THE OCTOBER 2016 MONITORING EVENT, OR THE DATASET SHOWN DOES NOT PROVIDE A BASIS FOR COMPARISON
- GMW-C-15**

10/16	0.08
4/17	0.13
10/17	1.59

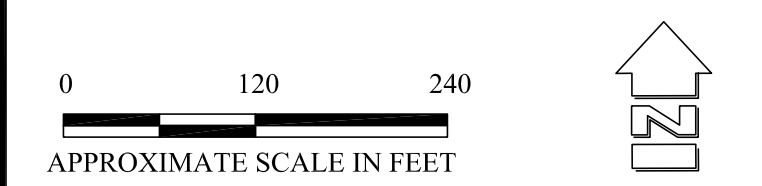
 WHERE THE DATASET IS SHOWN IN RED, THE MEASURED PRODUCT THICKNESS HAS INCREASED BY 10% OR MORE AT THAT LOCATION SINCE THE OCTOBER 2016 MONITORING EVENT
- GMW-68**

10/16	3.00
4/17	0.98
10/17	0.02

 WHERE THE DATASET IS SHOWN IN BLUE, THE MEASURED PRODUCT THICKNESS HAS DECREASED BY 10% OR MORE AT THAT LOCATION SINCE THE OCTOBER 2016 MONITORING EVENT
- NOT MEASURED
- ESTIMATED EXTENT OF MEASURABLE LIGHT NONAQUEOUS PHASE LIQUID (LNAPL, FLOATING PRODUCT) ON GROUNDWATER

SURVEY NOTES:

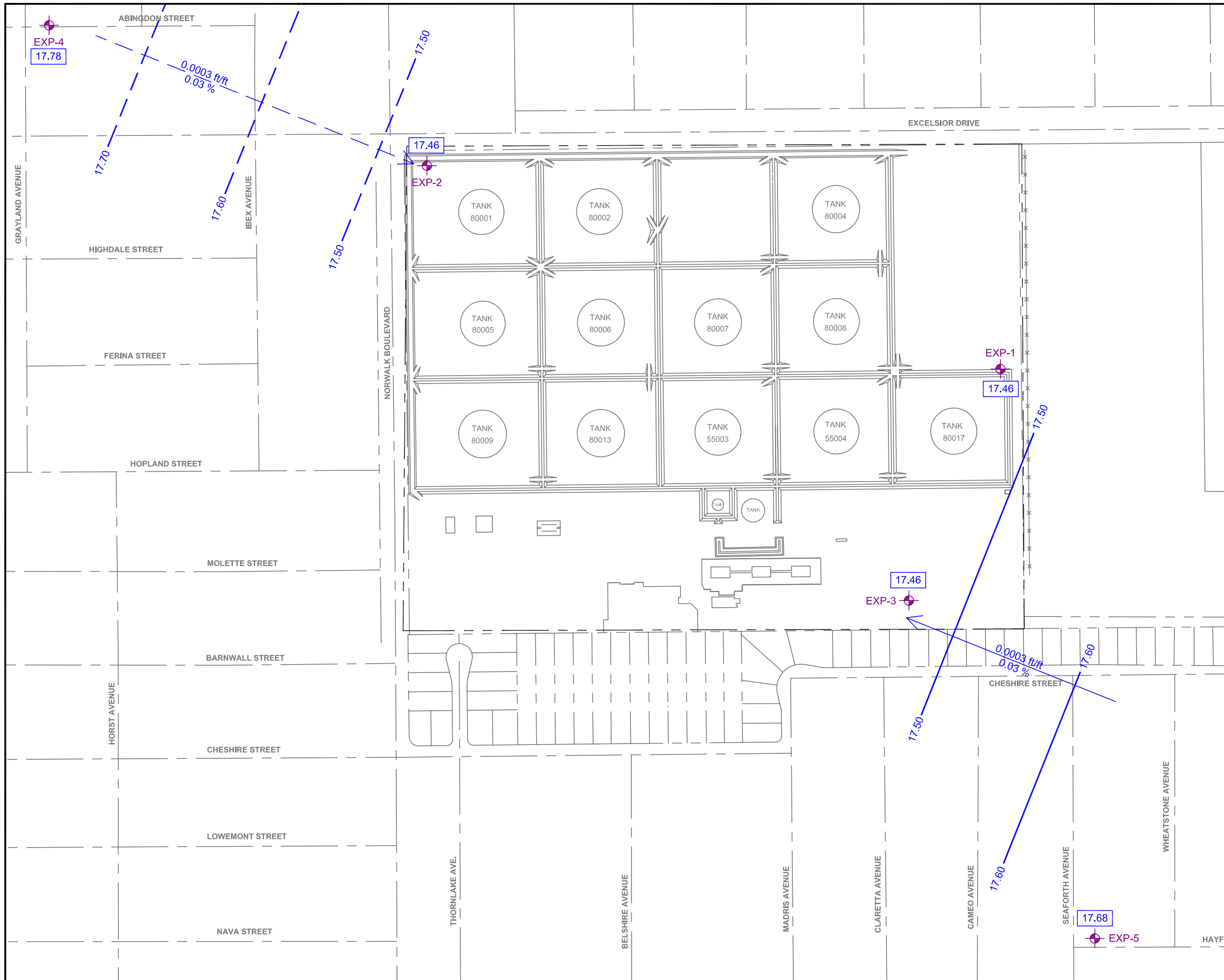
1. BASE MAP PREPARED FROM DATA PROVIDED BY FLUOR DANIEL GTI, DULIN & BOYNTON, GEOMATRIX, AND PARSONS
2. EXCEPT AS NOTED BELOW, WELL LOCATIONS SURVEYED BY DULIN & BOYNTON
3. LOCATIONS OF WELLS HL-1, HL-3, AND HL-4 BASED ON FIELD MEASUREMENTS BY FLUOR DANIEL GTI AND WOODWARD-CLYDE



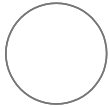



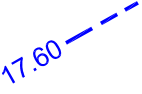

DATE: 11/2017	FILE NAME: DFSP-Norwalk-SE2-17.dwg
PROJECT No.: 091-NDLA-018	CONTRACT: SPO-600-14-D-5410

DISTRIBUTION OF FLOATING PRODUCT ON GROUNDWATER OCTOBER 2017

DFSP NORWALK
 15306 NORWALK BOULEVARD
 NORWALK, CALIFORNIA

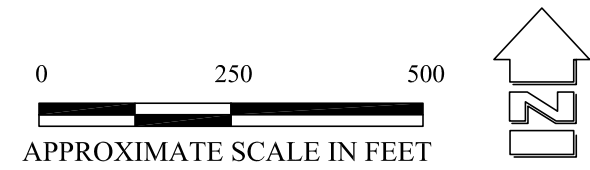


EXPLANATION:

-  FORMER ABOVEGROUND STORAGE TANKS
-  DFSP NORWALK BORDER
-  EXP-5 EXPOSITION AQUIFER MONITORING WELL
-  17.46 GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (MSL) MEASURED OCTOBER 2, 2017
-  GROUNDWATER EQUIPOTENTIAL LINE (REFERENCE = MEAN SEA LEVEL) CONTOUR INTERVAL = 0.10 FOOT DASHED WHERE INFERRED
-  GROUNDWATER GRADIENT DIRECTION IN FEET PER FOOT (ft/ft) AND PERCENT DASHED WHERE INFERRED

NOTE:

MONITORING WELLS EXP-1, EXP-2, AND EXP-3 WERE GAUGED BY BOTH SGI AND BLAINE TECH. THIS MAP WAS GENERATED BASED UPON DATA COLLECTED BY BLAINE TECH.



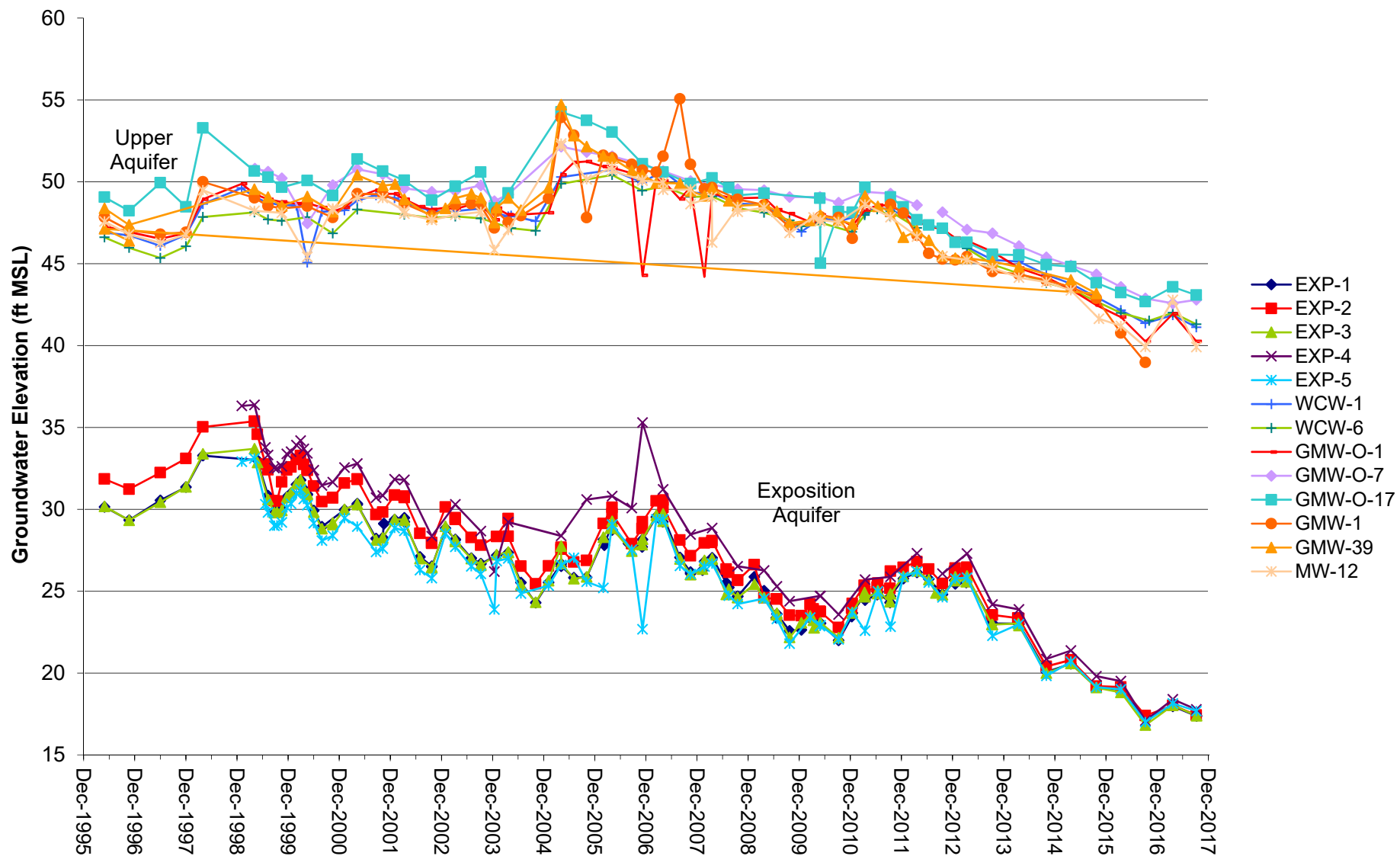
DATE: 12/2017	FILE NAME: DFSP-Nrwlk-SE2-17B.DWG	PROJECT No.: 091-NDLA-018
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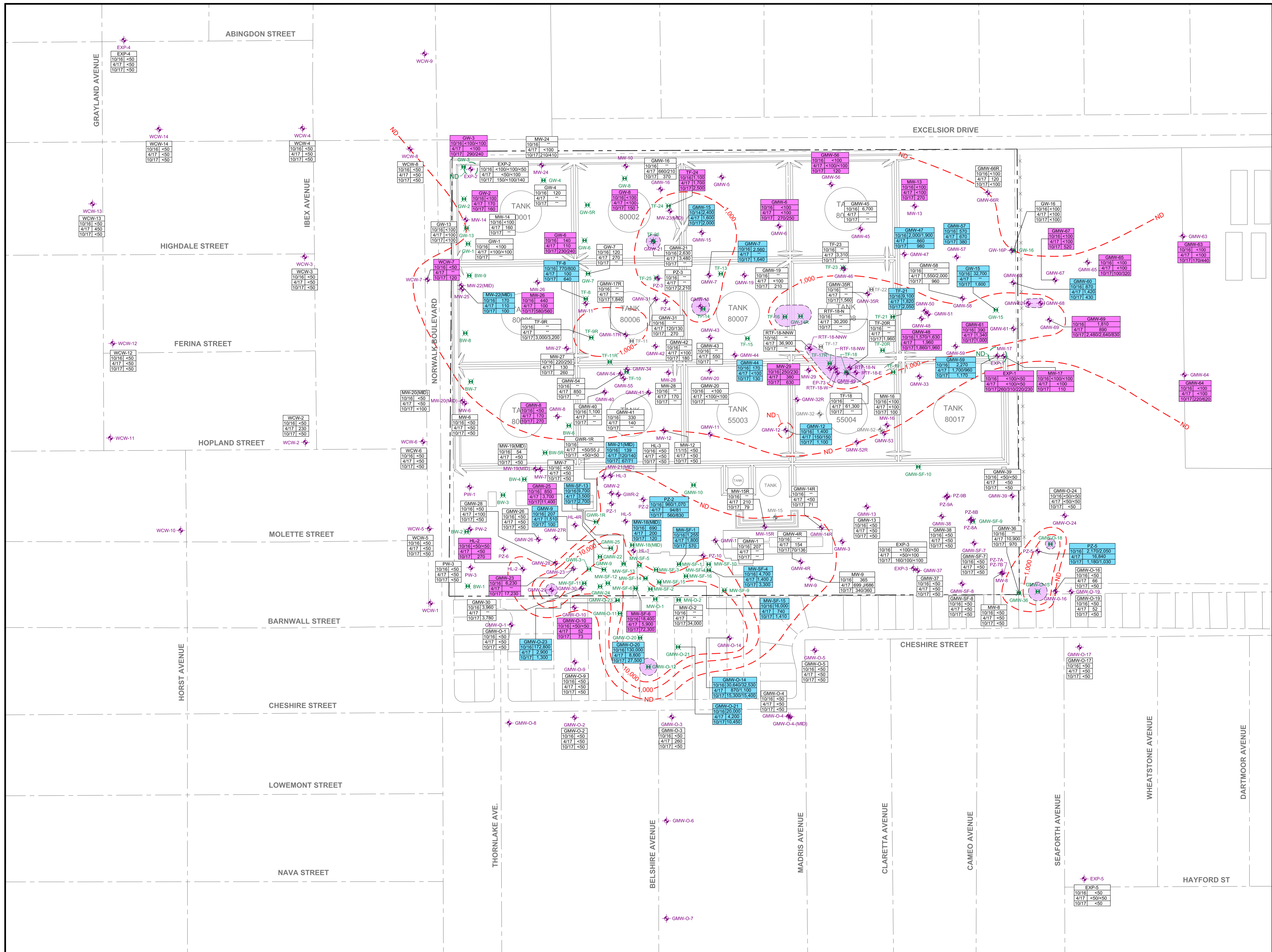
**GROUNDWATER EQUIPOTENTIAL
AND GRADIENT MAP
EXPOSITION AQUIFER
OCTOBER 2, 2016**

DFSP NORWALK
15306 NORWALK BOULEVARD
NORWALK, CALIFORNIA

 THE SOURCE GROUP, Inc.	FIGURE
	4

FIGURE 5 - HYDROGRAPH



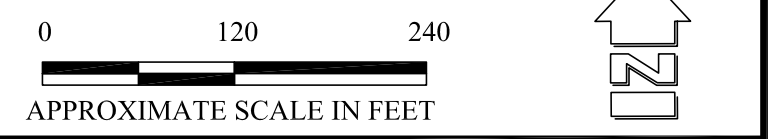


EXPLANATION:

- FORMER ABOVEGROUND STORAGE TANKS
- DFSP NORWALK BORDER
- GROUNDWATER MONITORING WELL
- EXTRACTION WELL USED FOR VAPOR, GROUNDWATER, TOTAL FLUIDS, OR FLOATING PRODUCT EXTRACTION
- WELLS SHOWN IN GREY WERE DECOMMISSIONED BY DLA ENERGY PRIOR TO REMEDIAL EXCAVATION
- GW-16
10/16 <100
10/16 <100
4/17 <50
10/17 <100
TOTAL PETROLEUM HYDROCARBON (TPH) CONCENTRATIONS ARE THE SUMMATION OF TPH AS GASOLINE (TPH_G) AND TPH AS DIESEL (TPH_D) IN MICROGRAMS PER LITER (µg/L) FOR THE THREE MOST RECENT SEMIANNUAL EVENTS; WHERE THE DATABOX IS SHOWN IN WHITE, THE CONCENTRATION OF TPH HAS REMAINED SIMILAR (CONCENTRATION CHANGE IS LESS THAN 10%) AT THAT LOCATION SINCE THE OCTOBER 2016 MONITORING EVENT, OR THE DATASET SHOWN DOES NOT PROVIDE A BASIS FOR COMPARISON
- MW-29
10/16 250/230
4/17 350
10/17 630
WHERE THE DATABOX IS SHOWN IN RED, THE CONCENTRATION OF TPH HAS INCREASED BY 10% OR MORE AT THAT LOCATION SINCE THE OCTOBER 2016 MONITORING EVENT
- GMW-44
10/16 170
4/17 <100
10/17 130
WHERE THE DATABOX IS SHOWN IN BLUE, THE CONCENTRATION OF TPH HAS DECREASED BY 10% OR MORE AT THAT LOCATION SINCE THE OCTOBER 2016 MONITORING EVENT
- <100
NOT DETECTED AT OR ABOVE THE INDICATED LABORATORY REPORTING LIMIT
- NOT SAMPLED / NOT ANALYZED
- <100<100
TWO CONCENTRATIONS ARE SHOWN WHERE DUPLICATE SAMPLES WERE ANALYZED
- J
ESTIMATED CONCENTRATION
- ND ---
ESTIMATED EXTENT OF DETECTED DISSOLVED TPH IN GROUNDWATER (UPPERMOST AQUIFER)
- 1,000 ---
LINE OF EQUAL TPH CONCENTRATION IN GROUNDWATER (UPPERMOST AQUIFER)
- ND ---
DATA FOR THE DEEPER EXPOSITION AQUIFER ARE CONTOURED IN GREEN
- ESTIMATED EXTENT OF MEASURABLE LIGHT NONAQUEOUS PHASE LIQUID (LNAPL, FLOATING PRODUCT) ON GROUNDWATER REFER TO FIGURE 4 OR TABLE 2 FOR MEASURED THICKNESSES

SURVEY NOTES:

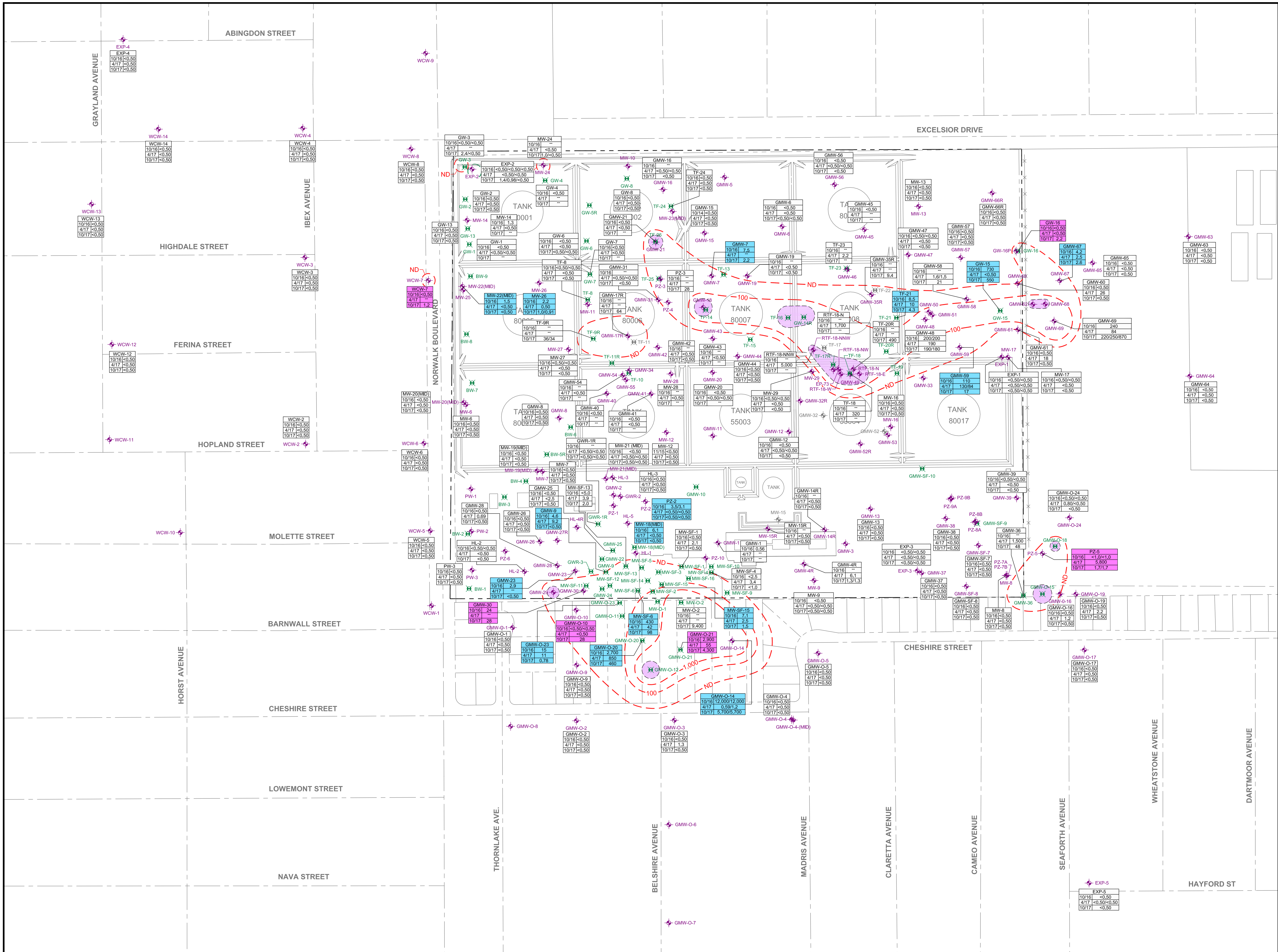
1. BASE MAP PREPARED FROM DATA PROVIDED BY FLUOR DANIEL GTI, DULIN & BOYNTON, GEOMATRIX, AND PARSONS
2. EXCEPT AS NOTED BELOW, WELL LOCATIONS SURVEYED BY DULIN & BOYNTON
3. LOCATIONS OF WELLS HL-1, HL-3, AND HL-4 BASED ON FIELD MEASUREMENTS BY FLUOR DANIEL GTI AND WOODWARD-CLYDE



DATE: 11/20/17	FILE NAME: DFSP-Norwalk-SE2-17.dwg
PROJECT No.: 091-NDLA-018	CONTRACT: SPO-600-14-D-5410

TOTAL PETROLEUM HYDROCARBONS IN GROUNDWATER OCTOBER 2017

DFSP NORWALK
15306 NORWALK BOULEVARD
NORWALK, CALIFORNIA



EXPLANATION:

- FORMER ABOVEGROUND STORAGE TANKS
- DFSP NORWALK BORDER
- GROUNDWATER MONITORING WELL
- EXTRACTION WELL USED FOR VAPOR, GROUNDWATER, TOTAL FLUIDS, OR FLOATING PRODUCT EXTRACTION
- WELLS SHOWN IN GREY WERE DECOMMISSIONED BY DLA ENERGY PRIOR TO REMEDIAL EXCAVATION

GMW-63
10/16 <0.50
4/17 <0.50
10/17 <0.50

GMW-7
10/16 <0.50
4/17 1.2
10/17 1.2

GMW-7.5
10/16 7.5
4/17 2.5
10/17 2.2

<0.50
NOT DETECTED AT OR ABOVE THE INDICATED LABORATORY REPORTING LIMIT

- - -
NOT SAMPLED / NOT ANALYZED

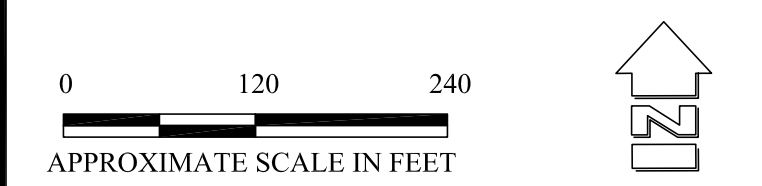
<0.50<0.50
TWO CONCENTRATIONS ARE SHOWN WHERE DUPLICATE SAMPLES WERE ANALYZED

ND
ESTIMATED EXTENT OF DETECTED BENZENE IN GROUNDWATER (UPPERMOST AQUIFER)

1,000
LINE OF EQUAL BENZENE CONCENTRATION IN DATA FOR THE DEEPER EXPOSITION AQUIFER ARE CONTOURED IN GREEN

ND
ESTIMATED EXTENT OF MEASURABLE LIGHT NONAQUEOUS PHASE LIQUID (LNAPL, FLOATING PRODUCT) ON GROUNDWATER REFER TO FIGURE 4 OR TABLE 2 FOR MEASURED THICKNESSES

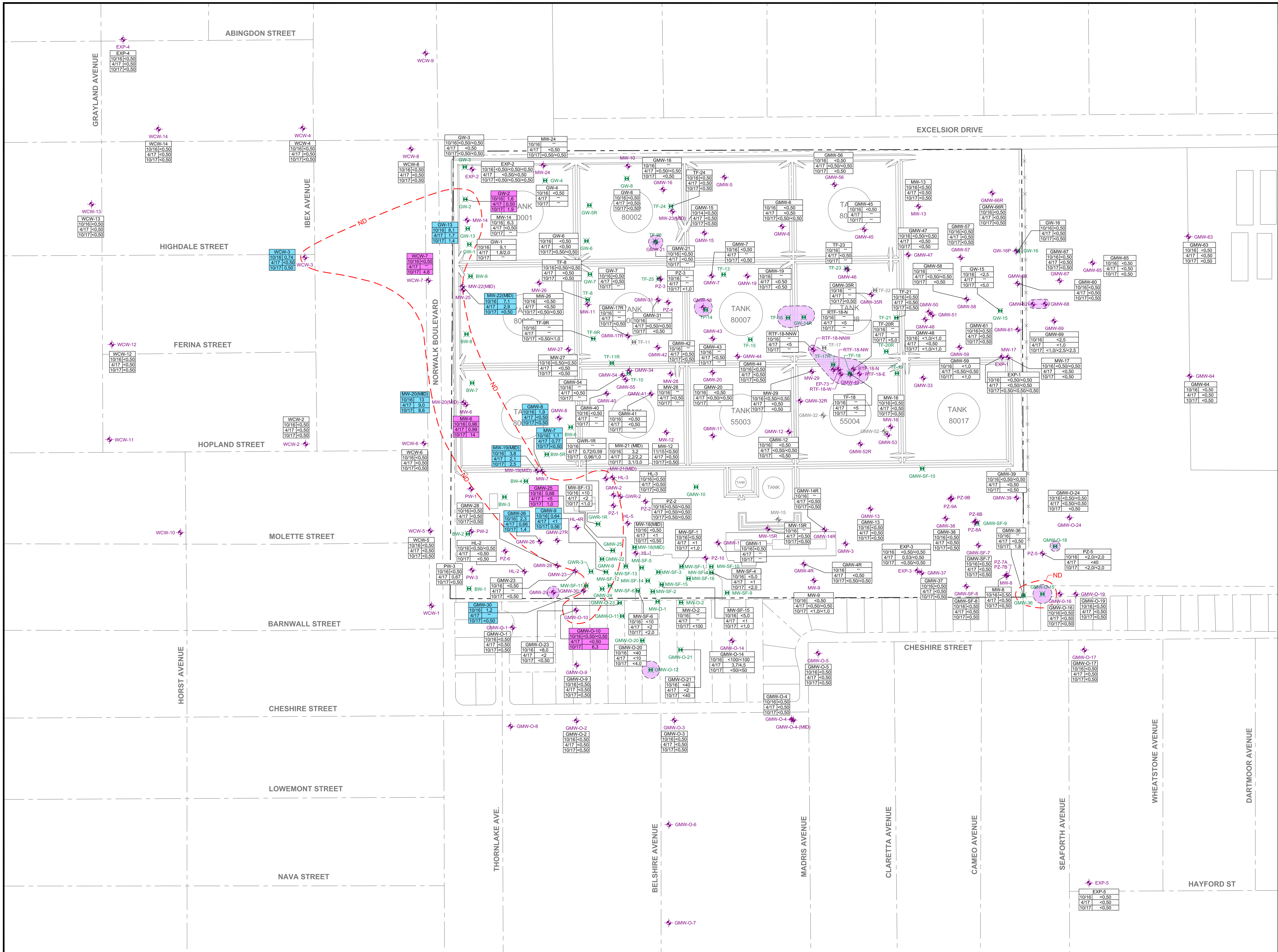
- SURVEY NOTES:**
- BASE MAP PREPARED FROM DATA PROVIDED BY FLUOR DANIEL GTI, DULIN & BOYNTON, GEOMATRIX, AND PARSONS
 - EXCEPT AS NOTED BELOW, WELL LOCATIONS SURVEYED BY DULIN & BOYNTON
 - LOCATIONS OF WELLS HL-1, HL-3, AND HL-4 BASED ON FIELD MEASUREMENTS BY FLUOR DANIEL GTI AND WOODWARD-CLYDE



DATE: 11/2017	FILE NAME: DFSP-Norwalk-SE2-17.dwg
PROJECT No.: 091-NDLA-018	CONTRACT: SPO-600-14-D-5410

**BENZENE IN GROUNDWATER
OCTOBER 2017**

DFSP NORWALK
15306 NORWALK BOULEVARD
NORWALK, CALIFORNIA

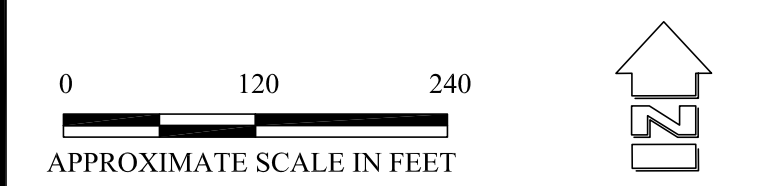


EXPLANATION:

- FORMER ABOVEGROUND STORAGE TANKS
 - DFSP NORWALK BORDER
 - GROUNDWATER MONITORING WELL
 - EXTRACTION WELL USED FOR VAPOR, GROUNDWATER, TOTAL FLUIDS, OR FLOATING PRODUCT EXTRACTION
 - WELLS SHOWN IN GREY WERE DECOMMISSIONED BY DLA ENERGY PRIOR TO REMEDIAL EXCAVATION
- GMW-63**
 10/16 <0.50
 4/17 <0.50
 10/17 <0.50
- GMW-O-10**
 10/16 <0.50<0.50
 4/17 <0.50
 10/17 6.3
- GMW-8**
 10/16 1.9
 4/17 <0.50
 10/17 <0.50
- <0.50 NOT DETECTED AT OR ABOVE THE INDICATED LABORATORY REPORTING LIMIT
 - NOT SAMPLED / NOT ANALYZED
 - <0.50/<0.50 TWO CONCENTRATIONS ARE SHOWN WHERE DUPLICATE SAMPLES WERE ANALYZED
 - ESTIMATED EXTENT OF DETECTED DISSOLVED 1,2-DCA IN GROUNDWATER (UPPERMOST AQUIFER)
 - ESTIMATED EXTENT OF MEASURABLE LIGHT NONAQUEOUS PHASE LIQUID (LNAPL, FLOATING PRODUCT) ON GROUNDWATER REFER TO FIGURE 4 OR TABLE 2 FOR MEASURED THICKNESSES

SURVEY NOTES:

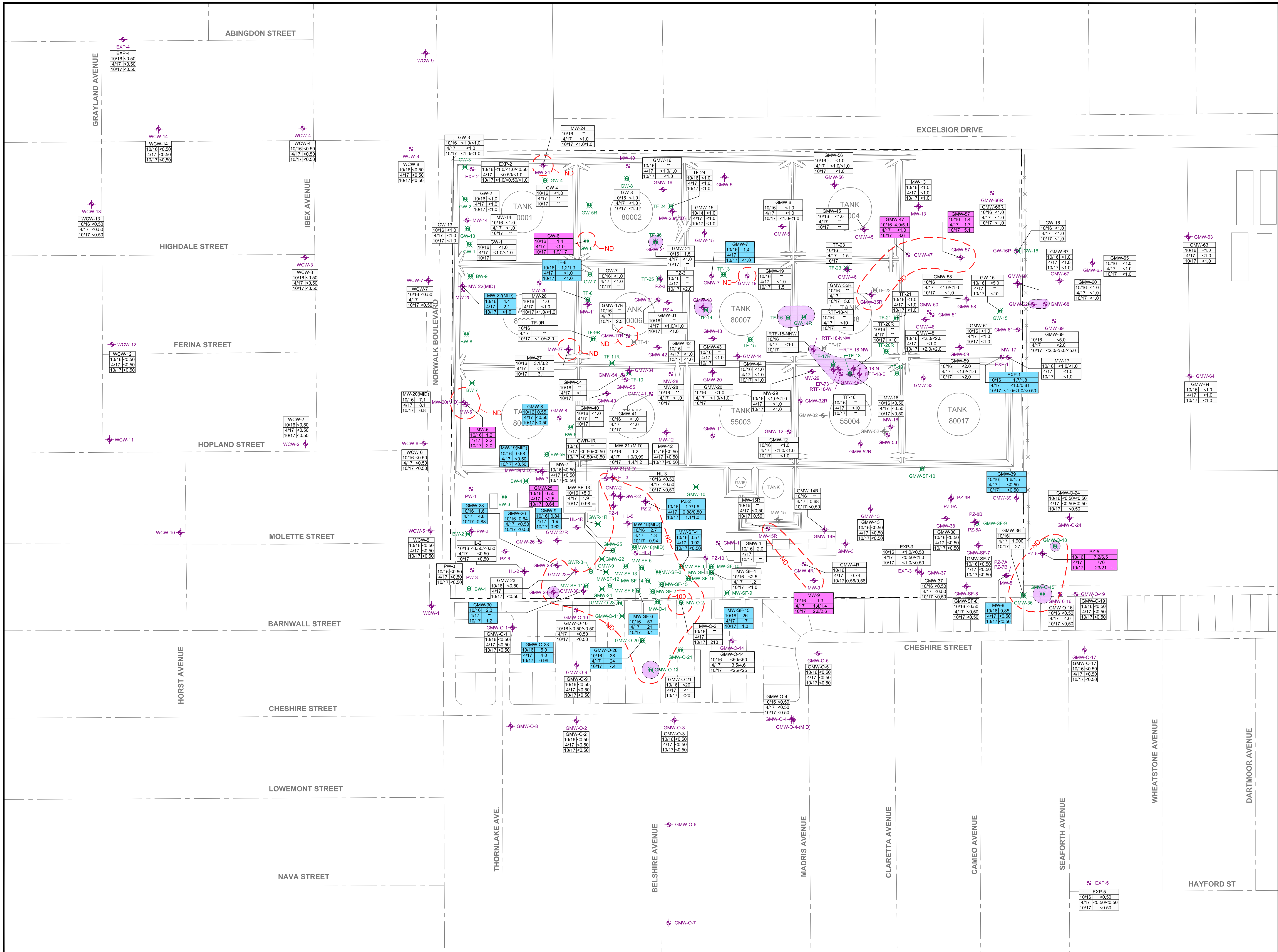
1. BASE MAP PREPARED FROM DATA PROVIDED BY FLUOR DANIEL GTI, DULIN & BOYNTON, GEOMATRIX, AND PARSONS
2. EXCEPT AS NOTED BELOW, WELL LOCATIONS SURVEYED BY DULIN & BOYNTON
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DATE: 11/2017	FILE NAME: DFSP-Norwalk-SE2-17.dwg
PROJECT No.: 091-NDLA-018	CONTRACT: SPO-600-14-D-5410

**1,2-DICHLOROETHANE IN GROUNDWATER
OCTOBER 2017**

DFSP NORWALK
 15306 NORWALK BOULEVARD
 NORWALK, CALIFORNIA

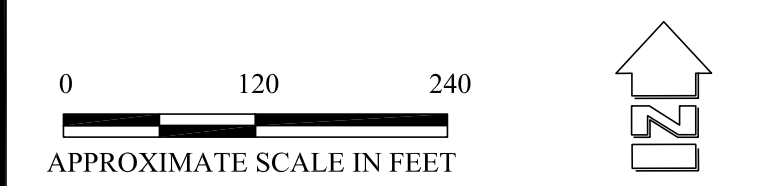


EXPLANATION:

- FORMER ABOVEGROUND STORAGE TANKS
- DFSP NORWALK BORDER
- GROUNDWATER MONITORING WELL
- EXTRACTION WELL USED FOR VAPOR, GROUNDWATER, TOTAL FLUIDS, OR FLOATING PRODUCT EXTRACTION
- WELLS SHOWN IN GREY WERE DECOMMISSIONED BY DLA ENERGY PRIOR TO REMEDIAL EXCAVATION

	GMW-63 10/16 <math><1.0</math> 4/17 <math><1.0</math> 10/17 <math><1.0</math>
	GMW-57 10/16 1.4 4/17 1.7 10/17 5.1
	GMW-7 10/16 1.4 4/17 1.4 10/17 <math><1.0</math>
<math><0.50</math>	NOT DETECTED AT OR ABOVE THE INDICATED LABORATORY REPORTING LIMIT
-	NOT SAMPLED / NOT ANALYZED
<math><0.50>/<math><math><0.50</math>	TWO CONCENTRATIONS ARE SHOWN WHERE DUPLICATE SAMPLES WERE ANALYZED
ND	ESTIMATED EXTENT OF DETECTED DISSOLVED MTBE IN GROUNDWATER (UPPERMOST AQUIFER)
1,000	LINE OF EQUAL MTBE CONCENTRATION IN GROUNDWATER (UPPERMOST AQUIFER)
ND	DATA FOR THE DEEPER EXPOSITION AQUIFER ARE CONTOURED IN GREEN
	ESTIMATED EXTENT OF MEASURABLE LIGHT NONAQUEOUS PHASE LIQUID (LNAPL, FLOATING PRODUCT) ON GROUNDWATER REFER TO FIGURE 4 OR TABLE 2 FOR MEASURED THICKNESSES

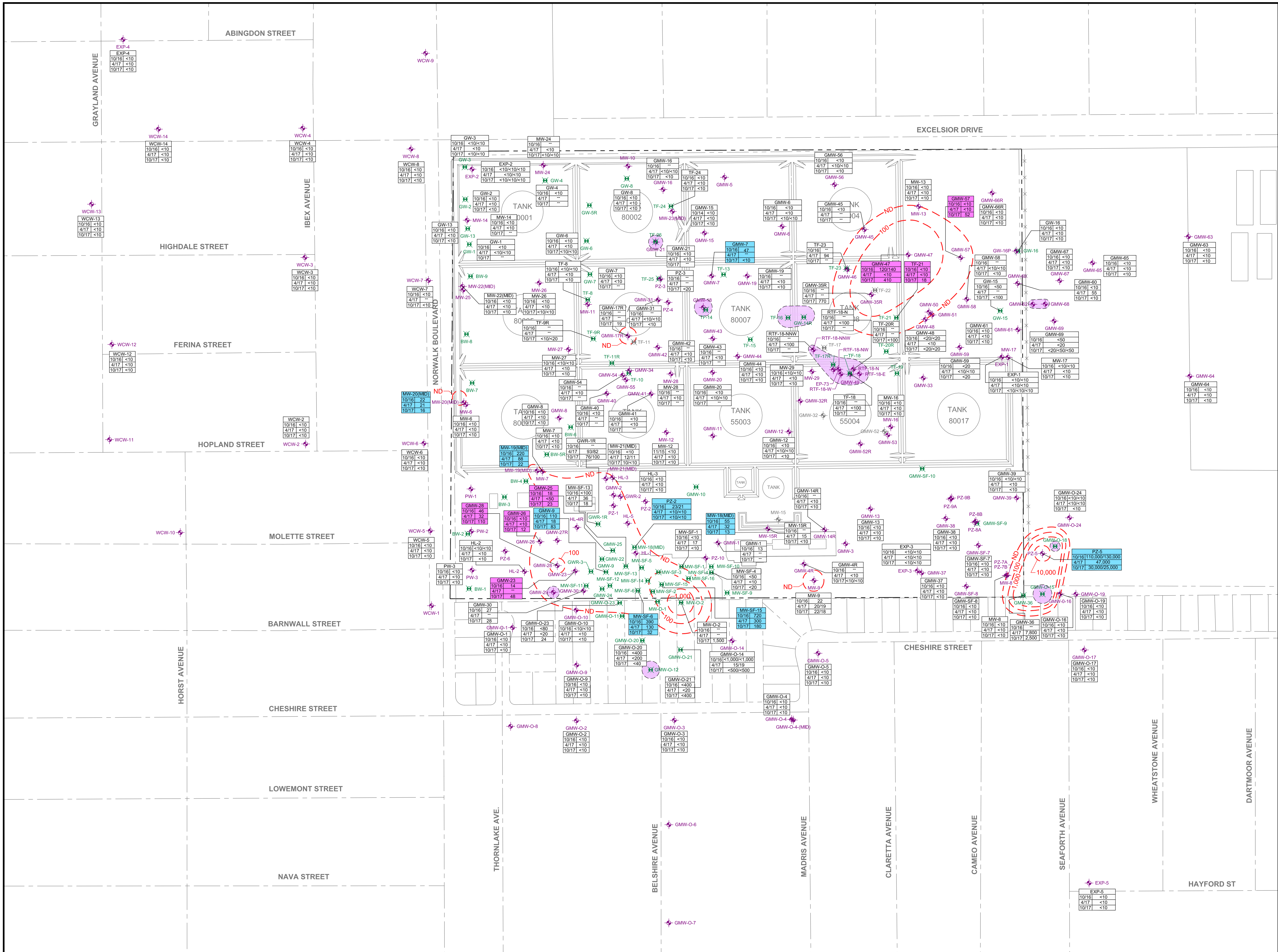
- SURVEY NOTES:**
- BASE MAP PREPARED FROM DATA PROVIDED BY FLUOR DANIEL GTI, DULIN & BOYNTON, GEOMATRIX, AND PARSONS
 - EXCEPT AS NOTED BELOW, WELL LOCATIONS SURVEYED BY DULIN & BOYNTON
 - LOCATIONS OF WELLS HL-1, HL-3, AND HL-4 BASED ON FIELD MEASUREMENTS BY FLOUR DANIEL GTI AND WOODWARD-CLYDE



DATE: 11/2017	FILE NAME: DFSP-Norwalk-SE2-17.dwg
PROJECT No.: 091-NDLA-018	CONTRACT: SPO-600-14-D-5410

METHYL TERTIARY-BUTYL ETHER IN GROUNDWATER OCTOBER 2017

DFSP NORWALK
15306 NORWALK BOULEVARD
NORWALK, CALIFORNIA

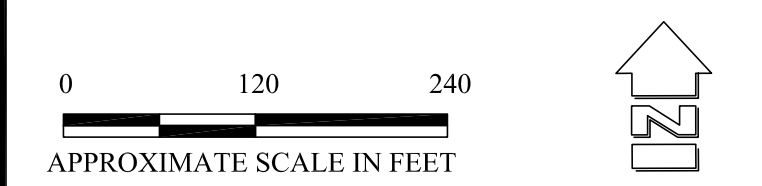


EXPLANATION:

- FORMER ABOVEGROUND STORAGE TANKS
- DFSP NORWALK BORDER
- GROUNDWATER MONITORING WELL
- EXTRACTION WELL USED FOR VAPOR, GROUNDWATER, TOTAL FLUIDS, OR FLOATING PRODUCT EXTRACTION
- WELLS SHOWN IN GREY WERE DECOMMISSIONED BY DLA ENERGY PRIOR TO REMEDIAL EXCAVATION
- | | |
|--------|-----------|
| GMW-63 | 10/16 <10 |
| | 4/17 <10 |
| | 10/17 <10 |
- | | |
|-------|-----------|
| TF-21 | 10/16 <10 |
| | 4/17 <10 |
| | 10/17 18 |
- | | |
|-------|-----------|
| GMW-9 | 10/16 110 |
| | 4/17 18 |
| | 10/17 83 |
- <10 NOT DETECTED AT OR ABOVE THE INDICATED LABORATORY REPORTING LIMIT
- NOT SAMPLED / NOT ANALYZED
- <10<10 TWO CONCENTRATIONS ARE SHOWN WHERE DUPLICATE SAMPLES WERE ANALYZED
- ND ESTIMATED EXTENT OF DETECTED DISSOLVED TBA IN GROUNDWATER (UPPERMOST AQUIFER)
- 1,000 LINE OF EQUAL TBA CONCENTRATION IN GROUNDWATER (UPPERMOST AQUIFER)
- ESTIMATED EXTENT OF MEASURABLE LIGHT NONAQUEOUS PHASE LIQUID (LNAPL, FLOATING PRODUCT) ON GROUNDWATER REFER TO FIGURE 4 OR TABLE 2 FOR MEASURED THICKNESSES

SURVEY NOTES:

1. BASE MAP PREPARED FROM DATA PROVIDED BY FLUOR DANIEL GTI, DULIN & BOYNTON, GEOMATRIX, AND PARSONS
2. EXCEPT AS NOTED BELOW, WELL LOCATIONS SURVEYED BY DULIN & BOYNTON
3. LOCATIONS OF WELLS HL-1, HL-3, AND HL-4 BASED ON FIELD MEASUREMENTS BY FLOUR DANIEL GTI AND WOODWARD-CLYDE



DATE: 11/2017	FILE NAME: DFSP-Norwalk-SE2-17.dwg
PROJECT No.: 091-NDLA-018	CONTRACT: SPO-600-14-D-5410

TERTIARY-BUTYL ALCOHOL IN GROUNDWATER IN OCTOBER 2017

DFSP NORWALK
15306 NORWALK BOULEVARD
NORWALK, CALIFORNIA

TABLES

TABLE 1
MONITORING WELL SUMMARY
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Installation Date	Installed By	Total Depth (feet bgs)	Casing Diameter (inches)	Screen Interval (feet bgs)	Slot Size (inches)	Casing Elevation (feet MSL)
BSP-10	11/04/16	SGI	46.5	2	44 - 46	0.010	-----
BSP-11	11/04/16	SGI	50.0	2	38 - 40	0.010	-----
BSP-12	11/04/16	SGI	46.5	2	44 - 46	0.010	-----
BSP-13	11/07/16	SGI	46.5	2	44 - 46	0.010	-----
BSP-14	11/07/16	SGI	46.5	2	44 - 46	0.010	-----
BSP-15	11/02/16	SGI	50.5	2	48 - 50	0.010	-----
BSP-16	11/03/16	SGI	50.5	2	48 - 50	0.010	-----
BSP-17	11/03/16	SGI	50.5	2	48 - 50	0.010	-----
BSP-18	11/03/16	SGI	50.5	2	48 - 50	0.010	-----
BSP-19	11/02/16	SGI	50.5	2	48 - 50	0.010	-----
BSP-20	11/01/16	SGI	51.5	2	48 - 50	0.010	-----
BW-1	05/16/96	GMX	55.0	5	31.9 - 51.4	0.010	73.17
BW-2	05/20/96	GMX	53.5	5	27 - 46.5	0.010	73.57
BW-3	05/17/96	GMX	55.5	5	30.6 - 50	0.010	74.16
BW-4	05/20/96	GMX	53.1	5	28.2 - 47	0.010	74.61
BW-5*	05/23/96	GMX	52.5	5	27 - 45.5	0.010	73.59
BW-5R	06/08/17	SGI	50.0	4	20 - 50	0.010	73.58
BW-6	05/22/96	GMX	52.4	5	27.6 - 46.9	0.010	73.48
BW-7	05/22/96	GMX	52.0	5	27.1 - 46.3	0.010	74.65
BW-8	05/21/96	GMX	51.5	5	27 - 46.4	0.010	75.08
BW-9	05/21/96	GMX	52.5	5	26.9 - 46.4	0.010	76.19
EP-71	06/05/17	SGI	40.0	4 (steel)	20 - 40	0.020	77.74
EP-72/TF-17R	06/07/17	SGI	40.0	4 (steel)	20 - 40	0.020	77.63
EP-73	06/07/17	SGI	40.0	4 (steel)	20 - 40	0.020	77.21
EP-74	06/05/17	SGI	40.0	4 (steel)	20 - 40	0.020	77.49
EXP-1	03/06/92	WCC	128.5	4	82 - 122	0.010	78.44
EXP-2	10/15/92	WCC	149.0	4	90 - 120	0.020	79.43
EXP-3	10/20/92	WCC	150.0	4	85 - 115	0.010	77.58
EXP-4	07/07/98	GMX	118.0	4	96.1 - 115.2	0.020	79.81
EXP-5	07/08/98	GMX	120.0	4	94.4 - 113.4	0.020	72.41
GMW-1	05/16/91	GTI	50.0	4	20 - 50	0.010	74.77
GMW-2	05/16/91	GTI	50.0	4	20 - 50	0.010	73.57
GMW-3	05/17/91	GTI	50.0	4	20 - 50	0.010	75.10
GMW-4*	05/21/91	GTI	50.0	4	20 - 50	0.010	75.45
GMW-4R	11/01/16	SGI	50.0	4	20 - 50	0.010	75.13
GMW-5	05/21/91	GTI	50.0	4	20 - 50	0.010	77.61
GMW-6	07/09/91	GTI	50.0	4	25 - 50	0.010	77.31
GMW-7	07/09/91	GTI	50.0	4	25 - 50	0.010	76.87
GMW-8	07/10/91	GTI	50.0	4	25 - 50	0.010	73.20

TABLE 1
MONITORING WELL SUMMARY
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Installation Date	Installed By	Total Depth (feet bgs)	Casing Diameter (inches)	Screen Interval (feet bgs)	Slot Size (inches)	Casing Elevation (feet MSL)
GMW-9	07/08/91	GTI	50.0	4	20 - 50	0.010	77.16
GMW-10	07/08/91	GTI	50.0	4	25 - 50	0.010	73.36
GMW-11	07/09/91	GTI	50.0	4	20 - 50	0.010	72.90
GMW-12	07/09/91	GTI	50.0	4	25 - 50	0.010	75.21
GMW-13	07/08/91	GTI	50.0	4	25 - 50	0.010	74.17
GMW-14*	07/10/91	GTI	50.0	4	25 - 50	0.010	74.72
GMW-14R	10/31/16	SGI	50.0	4	20 - 50	0.010	75.30
GMW-15	07/30/91	GTI	50.0	4	25 - 50	0.010	76.21
GMW-16	08/01/91	GTI	50.0	4	25 - 50	0.010	77.00
GMW-17*	08/01/91	GTI	50.0	4	25 - 50	0.010	74.66
GMW-17R	11/10/16	SGI	50.0	4	25 - 50	0.010	77.79
GMW-18	07/31/91	GTI	50.0	4	25 - 50	0.010	75.36
GMW-19	07/31/91	GTI	50.0	4	25 - 50	0.010	76.83
GMW-20	08/01/91	GTI	50.0	4	25 - 50	0.010	75.10
GMW-21	08/02/91	GTI	50.0	4	25 - 50	0.010	76.23
GMW-22	08/02/91	GTI	61.0	4	25 - 60	0.010	77.24
GMW-23	08/02/91	GTI	60.0	4	25 - 60	0.010	74.85
GMW-24	08/05/91	GTI	60.0	4	25 - 60	0.010	77.48
GMW-25	01/10/92	GTI	50.0	6	20 - 50	0.010	78.14
GMW-26	01/07/92	GTI	51.5	4	20 - 50	0.010	74.52
GMW-27*	01/10/92	GTI	50.0	4	20 - 50	0.010	74.41
GMW-27R	06/08/17	SGI	50.0	4	20 - 50	0.010	77.15
GMW-28	01/07/92	GTI	50.0	4	20 - 50	0.010	74.68
GMW-29	01/09/92	GTI	50.0	4	20 - 50	0.010	77.57
GMW-30	01/09/92	GTI	51.5	6	20 - 50	0.010	74.91
GMW-31	06/02/93	GTI	65.0	4	25 - 65	0.010	76.50
GMW-32*	06/01/93	GTI	50.0	4	20 - 50	0.020	74.62
GMW-32R	11/09/16	SGI	50.0	4	20 - 50	0.020	76.93
GMW-33	06/01/93	GTI	50.0	4	20 - 50	0.020	74.88
GMW-34	06/03/93	GTI	50.0	4	20 - 50	0.020	75.25
GMW-35*	06/04/93	GTI	50.0	4	20 - 50	0.020	76.12
GMW-35R	11/08/16	SGI	50.0	4	20 - 50	0.020	75.90
GMW-36	04/11/94	GTI	50.0	4	20 - 50	0.010	76.66
GMW-37	04/11/94	GTI	50.0	4	20 - 50	0.010	77.32
GMW-38	04/12/94	GTI	50.0	4	20 - 50	0.010	75.47
GMW-39	04/12/94	GTI	50.0	4	20 - 50	0.010	75.05
GMW-40	06/29/94	GTI	50.5	4	20 - 50	0.010	-----
GMW-41	06/30/94	GTI	50.5	4	20 - 50	0.010	72.69
GMW-42	06/30/94	GTI	50.5	4	20 - 50	0.010	75.50
GMW-43	07/01/94	GTI	50.5	4	20 - 50	0.010	76.07

TABLE 1
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Well ID	Installation Date	Installed By	Total Depth (feet bgs)	Casing Diameter (inches)	Screen Interval (feet bgs)	Slot Size (inches)	Casing Elevation (feet MSL)
GMW-44	07/01/94	GTI	50.5	4	20 - 50	0.010	75.71
GMW-45	07/01/94	GTI	50.5	4	20 - 50	0.010	75.67
GMW-46	07/05/94	GTI	50.5	4	20 - 50	0.010	76.10
GMW-47	07/05/94	GTI	50.5	4	20 - 50	0.010	75.98
GMW-48	07/05/94	GTI	50.5	4	20 - 50	0.010	75.03
GMW-49	07/06/94	GTI	50.5	4	20 - 50	0.010	74.75
GMW-50	12/19/94	GTI	46.5	4	15 - 45	0.010	75.51
GMW-51	12/19/94	GTI	41.5	4	15 - 40	0.010	75.93
GMW-52*	12/19/94	GTI	41.5	4	15 - 40	0.010	75.03
GMW-52R	06/05/17	SGI	50.0	4	20 - 50	0.010	77.62
GMW-53	12/19/94	GTI	46.5	4	15 - 45	0.010	74.90
GMW-54	12/20/94	GTI	46.5	4	15 - 45	0.010	74.73
GMW-55	12/20/94	GTI	41.5	4	15 - 40	0.010	74.60
GMW-56	08/12/98	FDGTI	55.0	2	20 - 55	0.020	76.50
GMW-56	08/12/98	FDGTI	55.0	4	20 - 55	0.020	76.52
GMW-57	08/13/98	FDGTI	55.0	2	19 - 54	0.020	76.66
GMW-57	08/13/98	FDGTI	55.0	4	19 - 54	0.020	76.66
GMW-58	08/14/98	FDGTI	55.0	2	20 - 55	0.020	75.46
GMW-58	08/14/98	FDGTI	55.0	4	20 - 55	0.020	75.48
GMW-59	08/14/98	FDGTI	55.0	2	20 - 55	0.020	75.28
GMW-59	08/14/98	FDGTI	55.0	4	20 - 55	0.020	75.28
GMW-60	04/14/04	Parsons	50.0	4	25 - 40	0.010	76.24
GMW-61	04/14/04	Parsons	50.0	4	30 - 40	0.010	75.60
GMW-62	07/02/07	Parsons	40.5	4	20 - 40	0.010	76.34
GMW-63	09/29/08	Parsons	41.0	4	20 - 40	0.020	77.32
GMW-64	09/29/08	Parsons	41.0	4	19.5 - 39.5	0.020	75.84
GMW-65	07/06/09	Parsons	41.5	4	21 - 41	0.020	76.78
GMW-66R	04/07/16	SGI	46.5	4	20 - 45	0.020	79.23
GMW-67	07/13/15	SGI	47.0	4	25 - 45	0.020	76.00
GMW-68	07/15/15	SGI	45.0	4	25 - 45	0.020	75.52
GMW-69	07/14/15	SGI	45.0	4	25 - 45	0.020	75.31
GMW-O-1	03/04/92	GTI	51.5	4	19 - 49.5	0.010	71.45
GMW-O-2	03/02/92	GTI	51.5	4	20 - 50	0.010	72.54
GMW-O-3	03/02/92	GTI	51.5	4	20 - 50	0.010	72.19
GMW-O-4	03/03/92	GTI	51.5	4	20 - 50	0.010	71.95
GMW-O-4 (MID)	03/03/92	GTI	66.5	4	54.5 - 64.5	0.010	72.24
GMW-O-5	03/04/92	GTI	51.5	4	20 - 50	0.010	72.36
GMW-O-6	05/18/92	GTI	51.5	4	20 - 50	0.010	71.41
GMW-O-7	05/19/92	GTI	51.5	4	20 - 50	0.010	70.98
GMW-O-8	05/18/92	GTI	51.0	4	19.5 - 49.5	0.010	70.91

TABLE 1
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Well ID	Installation Date	Installed By	Total Depth (feet bgs)	Casing Diameter (inches)	Screen Interval (feet bgs)	Slot Size (inches)	Casing Elevation (feet MSL)
GMW-O-9	07/29/92	GTI	51.5	4	20 - 50	0.010	73.50
GMW-O-10	07/29/92	GTI	51.5	4	20 - 50	0.010	73.98
GMW-O-11	05/20/92	GTI	51.5	4	20 - 50	0.010	74.17
GMW-O-12	05/21/92	GTI	51.5	4	20 - 50	0.010	73.49
GMW-O-14	05/20/92	GTI	51.5	4	20 - 50	0.010	74.08
GMW-O-15	04/19/94	GTI	50.0	4	20 - 50	0.020	74.23
GMW-O-16	04/19/94	GTI	50.0	4	20 - 50	0.020	74.10
GMW-O-17	07/26/94	GMX	41.0	4	20.4 - 39.5	0.010	73.78
GMW-O-18	07/25/94	GMX	41.0	4	20.8 - 40.4	0.010	74.36
GMW-O-19	07/29/94	GMX	41.5	4	20.2 - 39.9	0.010	74.46
GMW-O-20	06/15/95	GMX	45.9	4	-----	-----	73.32
GMW-O-21	06/19/97	GMX	45.9	4	25.5 - 45.5	0.010	71.43
GMW-O-22	-----	GMX	41.0	4	-----	-----	74.36
GMW-O-23	06/25/07	GMX	44.0	4	20 - 40	0.020	73.63
GMW-O-24	09/24/12	CH2MHill	45.0	4	20 - 40	0.010	74.39
GMW-SF-7	07/27/94	GMX	41.0	4	20.1 - 39.9	0.010	75.26
GMW-SF-8	07/28/94	GMX	41.0	4	19.5 - 39.5	0.010	76.75
GMW-SF-9	04/01/03	GMX	47.0	4	36.6 - 46.2	0.020	73.05
GMW-SF-10	04/02/03	GMX	47.0	4	36.7 - 46.4	0.020	75.77
GW-1	06/12/95	GTI	63.0	1	25 - 60	0.020	75.46
GW-1	06/12/95	GTI	63.0	4	25 - 60	0.020	75.97
GW-2	06/12/95	GTI	63.0	1	25 - 60	0.020	76.39
GW-2	06/12/95	GTI	63.0	4	25 - 60	0.020	75.78
GW-3	06/13/95	GTI	63.0	1	25 - 60	0.020	76.56
GW-3	06/13/95	GTI	63.0	4	25 - 60	0.020	75.79
GW-4	06/13/95	GTI	63.0	1	24 - 59	0.020	74.77
GW-4	06/13/95	GTI	63.0	4	24 - 59	0.020	73.86
GW-5*	06/15/95	GTI	63.0	1	25.5 - 60.5	0.020	77.09
GW-5*	06/15/95	GTI	63.0	4	25.5 - 60.5	0.020	76.99
GW-5R	11/09/16	SGI	50.0	4	20 - 50	0.020	79.06
GW-6	06/15/95	GTI	63.0	1	25 - 60	0.020	77.41
GW-6	06/15/95	GTI	63.0	4	25 - 60	0.020	76.38
GW-7	06/16/95	GTI	63.0	1	25 - 60	0.020	76.76
GW-7	06/16/95	GTI	63.0	4	25 - 60	0.020	75.02
GW-8	06/14/95	GTI	63.0	1	24 - 59	0.020	76.88
GW-8	06/14/95	GTI	63.0	4	24 - 59	0.020	76.15
GW-13	04/26/07	Parsons	65.0	1	25 - 65	0.020	77.00
GW-13	04/26/07	Parsons	67.0	6	25 - 65	0.020	76.85
GW-14*	04/26/07	Parsons	65.0	1	25 - 65	0.020	76.55
GW-14*	04/26/07	Parsons	67.0	6	25 - 65	0.020	76.54

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Well ID	Installation Date	Installed By	Total Depth (feet bgs)	Casing Diameter (inches)	Screen Interval (feet bgs)	Slot Size (inches)	Casing Elevation (feet MSL)
GW-14R	11/08/16	SGI	50.0	4	20 - 50	0.020	78.77
GW-15	04/26/07	Parsons	62.5	1	20.5 - 60.5	0.020	75.36
GW-15	04/26/07	Parsons	60.5	6	20.5 - 60.6	0.020	74.94
GW-16p	07/07/09	Parsons	61.3	1	21 - 61	0.020	76.55
GW-16	07/07/09	Parsons	63.0	6	20.5 - 60.5	0.020	76.33
GWR-1*	07/11/91	GTI	50.0	4	25 - 50	0.010	77.40
GWR-1R	11/10/16	SGI	50.0	4	20 - 50	0.010	76.64
GWR-2	07/12/91	GTI	50.0	4	25 - 50	0.010	73.66
GWR-3	01/10/92	GTI	50.0	6	20 - 50	0.010	77.60
HL-1	10/14/86	HLA	39.0	4	18 - 38	0.010	75.83
HL-2	10/13/86	HLA	39.0	4	16.5 - 36.5	0.010	76.94
HL-3	10/15/86	HLA	44.0	4	19 - 39	0.010	76.86
HL-4*	10/16/86	HLA	39.0	4	18 - 38.5	0.010	75.75
HL-4R	06/08/17	SGI	50.0	4	20 - 50	0.010	77.08
HL-5	10/16/86	HLA	39.5	4	18.5 - 39	0.010	76.13
MW-6	08/09/90	WCC	50.0	4	18 - 48	0.010	77.20
MW-7	08/27/90	WCC	50.0	4	19 - 48	0.010	78.13
MW-8	08/24/90	WCC	51.0	4	18 - 48	0.010	76.06
MW-9	08/08/90	WCC	50.0	4	18 - 48	0.010	77.11
MW-10	08/24/90	WCC	51.0	4	18 - 48	0.010	79.12
MW-11	08/09/90	WCC	50.0	4	18 - 48	0.010	78.17
MW-12	08/27/90	WCC	50.0	4	18 - 48	0.010	75.76
MW-13	08/23/90	WCC	50.0	4	18 - 48	0.010	78.25
MW-14	08/07/90	WCC	50.0	4	18 - 48	0.010	78.60
MW-15*	08/07/90	WCC	50.0	4	18 - 48	0.010	76.99
MW-15R	10/31/16	SGI	50.0	4	20 - 50	0.010	74.85
MW-16	08/08/90	WCC	50.0	4	18 - 48	0.010	76.87
MW-17	08/06/90	WCC	50.0	4	18 - 48	0.010	77.86
MW-18 (MID)	06/10/91	WCC	62.2	4	50 - 60	0.010	75.67
MW-19 (MID)	06/11/91	WCC	62.2	4	49.5 - 59.5	0.010	78.14
MW-20 (MID)	06/12/91	WCC	65.7	4	43 - 53	0.010	77.19
MW-21 (MID)	06/12/91	WCC	62.4	4	47 - 57	0.010	77.55
MW-22 (MID)	06/13/91	WCC	57.9	4	42 - 52	0.010	79.57
MW-23 (MID)	06/14/91	WCC	57.1	4	42 - 52	0.010	79.59
MW-24	06/14/91	WCC	47.0	4	14 - 44	0.010	77.66
MW-25	06/17/91	WCC	47.2	4	22.5 - 42.5	0.010	79.15
MW-26	06/17/91	WCC	47.3	4	23.5 - 43.5	0.010	77.40
MW-27	06/17/91	WCC	52.3	4	18 - 48	0.010	78.46
MW-28	6/19/91	WCC	51.5	4	16.5 - 46.5	0.010	75.90
MW-29	06/19/91	WCC	52.4	4	17.5 - 47.5	0.010	79.13

TABLE 1
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Well ID	Installation Date	Installed By	Total Depth (feet bgs)	Casing Diameter (inches)	Screen Interval (feet bgs)	Slot Size (inches)	Casing Elevation (feet MSL)
MW-O-1	01/22/91	GMX	40.0	2	25 - 40	0.020	75.48
MW-O-2	01/23/91	GMX	40.0	2	25 - 40	0.020	71.90
MW-O-3	10/25/91	GMX	41.0	6	20.5 - 41	0.010	74.53
MW-O-4	10/25/91	GMX	41.0	4	20.5 - 41	0.010	75.00
MW-SF-1	06/18/90	GMX	40.0	4	25 - 40	0.020	78.93
MW-SF-2	06/18/90	GMX	40.0	4	25 - 40	0.020	78.53
MW-SF-3	06/18/90	GMX	40.0	4	25 - 40	0.020	78.12
MW-SF-4	06/19/90	GMX	40.0	4	25 - 40	0.020	79.38
MW-SF-5	09/19/90	GMX	40.0	4	23 - 38	0.020	79.74
MW-SF-6	09/19/90	GMX	40.0	4	24 - 39	0.020	76.80
MW-SF-9	06/15/95	GMX	40.0	4	25 - 40	-----	74.10
MW-SF-10	09/23/03	GMX	30.5	4	10.3 - 29.9	0.020	76.53
MW-SF-11	06/19/07	GMX	44.0	4	20 - 40	0.020	78.56
MW-SF-12	06/18/07	GMX	44.0	4	20 - 40	0.020	78.07
MW-SF-13	06/19/07	GMX	44.0	4	20 - 40	0.020	73.40
MW-SF-14	06/21/07	GMX	44.0	4	20 - 40	0.020	78.16
MW-SF-15	06/21/07	GMX	44.0	4	20 - 40	0.020	78.27
MW-SF-16	06/20/07	GMX	44.0	4	20 - 40	0.020	78.21
PO-7	05/01/89	GW	56.0	4	29 - 49	0.020	80.26
PW-1	01/06/92	GTI	51.5	4	20 - 50	0.010	75.52
PW-2	01/06/92	GTI	50.0	4	20 - 50	0.010	74.71
PW-3	01/06/92	GTI	50.0	4	20 - 50	0.010	73.71
PZ-1	07/12/91	GTI	50.0	2	25 - 50	0.010	73.74
PZ-2	07/12/91	GTI	50.0	2	25 - 50	0.010	73.96
PZ-3	06/03/93	GTI	65.0	2	25 - 65	0.020	76.17
PZ-4	06/02/93	GTI	60.0	2	25 - 60	0.020	76.13
PZ-5	09/26/00	GMX	40.3	4	20.6 - 39.4	0.010	73.97
PZ-6	09/26/00	GMX	37.5	4	22.8 - 37.8	0.010	73.91
PZ-7A	04/07/03	GMX	32.0	2	21.5 - 31.2	0.010	73.87
PZ-7B	04/07/03	GMX	47.5	2	42 - 46.7	0.010	73.79
PZ-8A	04/08/03	GMX	31.5	2	21.2 - 31	0.010	75.81
PZ-8B	04/08/03	GMX	47.0	2	41.4 - 46.2	0.010	75.69
PZ-9A	04/09/03	GMX	32.0	2	21.6 - 30.9	0.010	76.14
PZ-9B	04/09/03	GMX	47.0	2	41.5 - 46.2	0.010	76.26
PZ-10	04/10/03	GMX	38.5	2	23.2 - 37.9	0.020	74.34
RTF-18-E	12/28/15	SGI	41.0	4	25.0 - 40.0	0.020	75.19
RTF-18-N	12/28/15	SGI	41.0	4	25.0 - 40.0	0.020	75.17
RTF-18-NNW	12/29/15	SGI	41.0	4	25.0 - 40.0	0.020	76.77
RTF-18-NW	12/29/15	SGI	41.0	4	25.0 - 40.0	0.020	76.22
RTF-18-W	12/28/15	SGI	41.0	4	25.0 - 40.0	0.020	74.86

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Well ID	Installation Date	Installed By	Total Depth (feet bgs)	Casing Diameter (inches)	Screen Interval (feet bgs)	Slot Size (inches)	Casing Elevation (feet MSL)
RW-1	06/21/17	SGI	46.5	2	15 - 35	0.020	-----
RW-1		SGI		2	43 - 45	0.010	-----
RW-2	06/21/17	SGI	46.5	2	16 - 36	0.020	-----
RW-2		SGI		2	43 - 45	0.010	-----
RW-3	06/21/17	SGI	46.5	2	17 - 37	0.020	-----
RW-3		SGI		2	43 - 45	0.010	-----
RW-4	06/22/17	SGI	46.5	2	14 - 34	0.020	-----
RW-4		SGI		2	43 - 45	0.010	-----
RW-5	06/22/17	SGI	46.5	2	14 - 34	0.020	-----
RW-5		SGI		2	43 - 45	0.010	-----
RW-6	06/27/17	SGI	46.5	2	17 - 37	0.020	-----
RW-6		SGI		2	43 - 45	0.010	-----
RW-7	06/26/17	SGI	46.5	2	17 - 37	0.020	-----
RW-7		SGI		2	43 - 45	0.010	-----
RW-8	06/26/17	SGI	46.5	2	15 - 38.5	0.020	-----
RW-8		SGI		2	43 - 45	0.010	-----
RW-9	06/26/17	SGI	46.5	2	15 - 35	0.020	-----
RW-9		SGI		2	43 - 45	0.010	-----
RW-10	06/22/17	SGI	46.5	2	14 - 34	0.020	-----
RW-10		SGI		2	43 - 45	0.010	-----
RW-11	06/26/17	SGI	46.5	2	16 - 36	0.020	-----
RW-11		SGI		2	43 - 45	0.010	-----
RW-12	06/23/17	SGI	46.5	2	14 - 34	0.020	-----
RW-12		SGI		2	43 - 45	0.010	-----
RW-13	06/23/17	SGI	46.5	2	15 - 35	0.020	-----
RW-13		SGI		2	43 - 45	0.010	-----
RW-14	06/23/17	SGI	46.5	2	14 - 34	0.020	-----
RW-14		SGI		2	43 - 45	0.010	-----
RW-15	06/20/17	SGI	46.5	2	18 - 38	0.020	-----
RW-15		SGI		2	43 - 45	0.010	-----
RW-16	06/20/17	SGI	46.5	2	14 - 34	0.020	-----
RW-16		SGI		2	43 - 45	0.010	-----
RW-17	06/27/17	SGI	46.5	2	19 - 39	0.020	-----
RW-17		SGI		2	43 - 45	0.010	-----
RW-18	06/20/17	SGI	46.5	2	18 - 38	0.020	-----
RW-18		SGI		2	43 - 45	0.010	-----
RW-19	06/30/17	SGI	46.5	2	13 - 33	0.020	-----
RW-19		SGI		2	43 - 45	0.010	-----
RW-20	06/29/17	SGI	46.5	2	13 - 33	0.020	-----
RW-20		SGI		2	43 - 45	0.010	-----

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MONITORING WELL SUMMARY
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Installation Date	Installed By	Total Depth (feet bgs)	Casing Diameter (inches)	Screen Interval (feet bgs)	Slot Size (inches)	Casing Elevation (feet MSL)
RW-21	06/30/17	SGI	46.5	2	13 - 33	0.020	----
RW-21		SGI		2	43 - 45	0.010	----
RW-22	06/28/17	SGI	46.5	2	13 - 33	0.020	----
RW-22		SGI		2	43 - 45	0.010	----
RW-23	06/30/17	SGI	46.5	2	13 - 33	0.020	----
RW-23		SGI		2	43 - 45	0.010	----
RW-24	06/28/17	SGI	46.5	2	13 - 33	0.020	----
RW-24		SGI		2	43 - 45	0.010	----
RW-25	06/28/17	SGI	46.5	2	13 - 33	0.020	----
RW-25		SGI		2	43 - 45	0.010	----
RW-26	07/03/17	SGI	46.5	2	13 - 33	0.020	----
RW-26		SGI		2	43 - 45	0.010	----
RW-27	06/28/17	SGI	46.5	2	13 - 33	0.020	----
RW-27		SGI		2	43 - 45	0.010	----
RW-28	07/03/17	SGI	46.5	2	13 - 33	0.020	----
RW-28		SGI		2	43 - 45	0.010	----
RW-29	06/29/17	SGI	46.5	2	13 - 33	0.020	----
RW-29		SGI		2	43 - 45	0.010	----
RW-30	06/27/17	SGI	46.5	2	13 - 33	0.020	----
RW-30		SGI		2	43 - 45	0.010	----
RW-31	07/03/17	SGI	46.5	2	13 - 33	0.020	----
RW-31		SGI		2	43 - 45	0.010	----
RW-32	07/03/17	SGI	46.5	2	13 - 33	0.020	----
RW-32		SGI		2	43 - 45	0.010	----
RW-33	06/29/17	SGI	46.5	2	13 - 33	0.020	----
RW-33		SGI		2	43 - 45	0.010	----
RW-34	07/03/17	SGI	46.5	2	13 - 33	0.020	----
RW-34		SGI		2	43 - 45	0.010	----
TF-8	09/22/95	GTI	63.0	1.5	25 - 60	0.020	75.60
TF-8	09/22/95	GTI	63.0	4	25 - 60	0.020	74.86
TF-9*	09/22/95	GTI	63.0	1.5	25 - 60	0.020	75.27
TF-9*	09/22/95	GTI	63.0	4	25 - 60	0.020	74.47
TF-9R	06/06/17	SGI	50.0	4	20 - 50	0.020	78.00
TF-10	09/25/95	GTI	63.0	1.5	25 - 60	0.020	74.19
TF-10	09/25/95	GTI	63.0	4	25 - 60	0.020	73.61
TF-11*	09/25/95	GTI	63.0	1.5	25 - 60	0.020	74.95
TF-11*	09/25/95	GTI	63.0	4	25 - 60	0.020	74.40
TF-11R	06/17/17	SGI	50.0	4	20 - 50	0.020	77.75
TF-13	09/26/95	GTI	63.0	1.5	25 - 60	0.020	75.90
TF-13	09/26/95	GTI	63.0	4	25 - 60	0.020	75.47

TABLE 1
MONITORING WELL SUMMARY
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Installation Date	Installed By	Total Depth (feet bgs)	Casing Diameter (inches)	Screen Interval (feet bgs)	Slot Size (inches)	Casing Elevation (feet MSL)
TF-14	09/27/95	GTI	63.0	1.5	25 - 60	0.020	74.78
TF-14	09/27/95	GTI	63.0	4	25 - 60	0.020	74.35
TF-15	09/28/95	GTI	63.0	1.5	25 - 60	0.020	75.40
TF-15	09/28/95	GTI	63.0	4	25 - 60	0.020	74.78
TF-16	09/28/95	GTI	63.0	1.5	25 - 60	0.020	76.48
TF-16	09/28/95	GTI	63.0	4	25 - 60	0.020	75.89
TF-17*	09/29/95	GTI	63.0	1.5	25 - 60	0.020	75.26
TF-17*	09/29/95	GTI	63.0	4	25 - 60	0.020	74.88
TF-17R/EP-72	06/07/17	SGI	40.0	4 (steel)	20 - 40	0.020	77.63
TF-18	07/06/94	GTI	50.5	4	20 - 50	0.020	73.74
TF-19	10/03/95	GTI	63.0	1.5	25 - 60	0.020	75.61
TF-19	10/03/95	GTI	63.0	4	25 - 60	0.020	75.07
TF-20*	10/03/95	GTI	63.0	1.5	25 - 60	0.020	75.59
TF-20*	10/03/95	GTI	63.0	4	25 - 60	0.020	75.08
TF-20R	11/07/16	SGI	63.0	2	25 - 60	0.020	75.26
TF-21	09/29/95	GTI	63.0	1.5	25 - 60	0.020	75.60
TF-21	09/29/95	GTI	63.0	4	25 - 60	0.020	77.91
TF-22*	10/02/95	GTI	63.0	1.5	25 - 60	0.020	74.95
TF-22*	10/02/95	GTI	63.0	4	25 - 60	0.020	74.76
TF-22R	06/06/17	SGI	50.0	2	20 - 50	0.020	79.92
TF-23	07/05/94	GTI	50.5	4	20 - 50	0.020	75.31
TF-24	09/26/95	GTI	63.0	1.5	25 - 60	0.020	76.35
TF-24	09/26/95	GTI	63.0	4	25 - 60	0.020	76.43
TF-25	04/04/01	GTI	47.0	1.5	41 - 46	0.020	-----
TF-25	04/04/01	GTI	47.0	4	26 - 36	0.020	74.85
TF-26	04/03/01	GTI	47.0	1.5	41 - 46	0.020	-----
TF-26	04/03/01	GTI	47.0	4	26 - 36	0.020	75.85
VEW-38	11/02/16	SGI	30.5	4	20 - 30	0.020	-----
VEW-39	11/02/16	SGI	30.5	4	20 - 30	0.020	-----
VEW-40	11/02/16	SGI	30.5	4	20 - 30	0.020	-----
WCW-1	02/18/92	WCC	52.0	4	20 - 50	0.010	72.86
WCW-2	02/21/92	WCC	52.0	4	20 - 50	0.010	75.34
WCW-3	02/19/92	WCC	56.5	4	19 - 49	0.010	76.16
WCW-4	02/20/92	WCC	56.5	4	20 - 50	0.010	78.05
WCW-5	04/30/92	WCC	52.0	4	19 - 49	0.010	73.49
WCW-6	04/20/92	WCC	53.5	4	20 - 50	0.010	75.52
WCW-7	04/29/92	WCC	53.0	4	20 - 50	0.010	76.44
WCW-8	04/21/92	WCC	53.5	4	20 - 50	0.010	77.34
WCW-9	04/28/92	WCC	53.5	4	20 - 50	0.010	77.74
WCW-10	09/11/92	WCC	56.5	4	25 - 55	0.010	74.06

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Well ID	Installation Date	Installed By	Total Depth (feet bgs)	Casing Diameter (inches)	Screen Interval (feet bgs)	Slot Size (inches)	Casing Elevation (feet MSL)
WCW-11	09/09/92	WCC	61.5	4	30 - 60	0.010	75.29
WCW-12	09/08/92	WCC	61.5	4	30 - 60	0.010	76.27
WCW-13	09/10/92	WCC	61.5	4	30 - 60	0.010	77.70
WCW-14	08/12/98	FDGTI	59.0	4	24 - 59	0.010	78.81

Notes: Monitoring wells sampled during this sampling event are shown in **bold**.
 Biosparge and vapor extraction wells used for remediation purposes only are not included.
 GMW-21 is also referred to as TF-24.
 TF-24 is also referred to as "old TF-24" or "former TF-24."
 feet bgs = feet below ground surface
 feet MSL = feet above mean sea level
 GMX = Geomatrix Consultants
 * Well decommissioned by DLA Energy prior to remedial excavation
 WCC = Woodward-Clyde Consultants
 GTI = Groundwater Technology/Groundwater Technology Government Services, Inc.
 FDGTI = Fluor Daniel GTI
 ---- = information not available
 GW = Golden West
 SGI = The Source Group, Inc.

TABLE 2
GROUNDWATER ELEVATIONS AND MEASURED PRODUCT THICKNESSES

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Gauged By	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Water (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)	
EP-73	10/4/2017	SGI	77.21	35.31	36.55	0.24	NC	
EXP-1	10/3/2017	SGI	78.44	----	61.14	----	17.30	
EXP-1	10/2/2017	BT	78.44	----	60.98	----	17.46	
EXP-1	10/25/2017	SGI	78.44	----	61.87	----	16.57	
EXP-2	10/2/2017	SGI	79.43	----	62.04	----	17.39	
EXP-2	10/2/2017	BT	79.43	----	61.97	----	17.46	
EXP-2	10/25/2017	SGI	79.43	----	61.94	----	17.49	
EXP-3	10/3/2017	SGI	77.58	----	60.26	----	17.32	
EXP-3	10/2/2017	BT	77.58	----	60.12	----	17.46	
EXP-3	10/25/2017	SGI	77.58	----	60.00	----	17.58	
EXP-4	10/2/2017	BT	79.81	----	62.03	----	17.78	
EXP-5	10/2/2017	BT	72.41	----	54.73	----	17.68	
GMW-4R	10/2/2017	BT	75.13	----	34.57	----	40.56	
GMW-5	10/2/2017	SGI	77.61	mud in well to 28.32 feet bgs				
GMW-6	10/2/2017	SGI	77.31	----	35.56	----	41.75	
GMW-7	10/3/2017	SGI	76.87	----	35.13	----	41.74	
GMW-8	10/2/2017	BT	73.20	----	33.40	----	39.80	
GMW-9	10/2/2017	BT	77.16	----	38.43	----	38.73	
GMW-10	10/2/2017	BT	73.36	----	33.48	----	39.88	
GMW-11	10/2/2017	BT	72.90	----	32.89	----	40.01	
GMW-12	10/3/2017	SGI	75.21	----	34.32	----	40.89	
GMW-13	10/2/2017	BT	74.17	----	33.86	----	40.31	
GMW-14R	10/2/2017	BT	75.30	----	34.40	----	40.90	
GMW-15	10/2/2017	SGI	76.21	----	34.45	----	41.76	
GMW-16	10/2/2017	SGI	77.00	----	36.05	----	40.95	
GMW-17R	10/3/2017	SGI	77.79	----	36.77	----	41.02	
GMW-18	9/26/2017	SGI	75.36	32.99	34.15	1.16	NC	
GMW-19	10/3/2017	SGI	76.83	----	35.17	----	41.66	
GMW-20	10/3/2017	SGI	75.10	----	34.20	----	40.90	
GMW-21	10/2/2017	SGI	76.23	32.52	33.02	0.50	NC	
GMW-22	10/2/2017	BT	77.24	----	38.45	----	38.79	
GMW-23	10/2/2017	BT	74.85	----	35.42	----	39.43	
GMW-24	10/2/2017	BT	77.48	----	39.33	----	38.15	
GMW-25	10/2/2017	BT	78.14	----	39.22	----	38.92	
GMW-26	10/2/2017	BT	74.52	----	35.00	----	39.52	
GMW-27R	10/2/2017	BT	77.15	----	37.68	----	39.47	
GMW-28	10/2/2017	BT	74.68	----	35.78	----	38.90	
GMW-29	10/2/2017	BT	77.57	35.87	36.05	0.18	NC	
GMW-30	10/2/2017	BT	74.91	----	36.21	----	38.70	
GMW-31	10/3/2017	SGI	76.50	----	33.18	----	43.32	
GMW-32R	10/3/2017	SGI	76.93	dirt in well to 28.20 feet bgs				
GMW-33	10/3/2017	SGI	74.88	dirt in well to 16.44 feet bgs				
GMW-35R	10/3/2017	SGI	75.90	----	38.07	----	37.83	
GMW-36	10/2/2017	BT	76.66	----	34.10	----	42.56	
GMW-37	10/2/2017	BT	77.32	----	35.53	----	41.79	
GMW-38	10/2/2017	BT	75.47	----	33.55	----	41.92	

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15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Gauged By	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Water (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-39	10/2/2017	BT	75.05	----	32.82	----	42.23
GMW-41	10/3/2017	SGI	72.69	well full of mud			
GMW-42	10/3/2017	SGI	75.50	----	34.71	----	40.79
GMW-43	10/3/2017	SGI	76.07	well full of mud			
GMW-44	10/3/2017	SGI	75.71	----	34.41	----	41.30
GMW-45	10/2/2017	SGI	75.67	----	34.57	----	41.10
GMW-47	10/3/2017	SGI	75.98	----	34.20	----	41.78
GMW-48	10/3/2017	SGI	75.03	----	36.53	----	38.50
GMW-54	10/3/2017	SGI	74.73	----	34.15	----	40.58
GMW-56	10/2/2017	SGI	76.52	----	33.32	----	43.20
GMW-57	10/3/2017	SGI	76.66	----	34.80	----	41.86
GMW-58	10/3/2017	SGI	75.48	----	34.22	----	41.26
GMW-59	10/3/2017	SGI	75.28	----	32.03	----	43.25
GMW-60	10/3/2017	SGI	76.24	----	34.21	----	42.03
GMW-61	10/3/2017	SGI	75.60	----	33.46	----	42.14
GMW-62	10/2/2017	SGI	76.34	34.21	34.22	0.01	NC
GMW-63	10/2/2017	SGI	77.32	----	34.81	----	42.51
GMW-63	10/25/2017	SGI	77.32	----	34.93	----	42.39
GMW-64	10/2/2017	SGI	75.84	----	32.98	----	42.86
GMW-64	10/25/2017	SGI	75.84	----	33.13	----	42.71
GMW-65	10/2/2017	SGI	76.78	----	34.51	----	42.27
GMW-65	10/25/2017	SGI	76.78	----	34.78	----	42.00
GMW-66R	10/3/2017	SGI	79.23	----	37.34	----	41.89
GMW-67	10/2/2017	SGI	76.00	----	33.76	----	42.24
GMW-68	10/2/2017	SGI	75.52	33.28	33.30	0.02	NC
GMW-69	10/2/2017	SGI	75.31	----	32.99	----	42.32
GMW-69	10/25/2017	SGI	75.31	----	33.29	----	42.02
GMW-O-1	10/2/2017	BT	71.45	----	31.20	----	40.25
GMW-O-2	10/2/2017	BT	72.54	----	31.39	----	41.15
GMW-O-3	10/2/2017	BT	72.19	----	31.55	----	40.64
GMW-O-4	10/2/2017	BT	71.95	----	30.44	----	41.51
GMW-O-5	10/2/2017	BT	72.36	----	31.08	----	41.28
GMW-O-6	10/2/2017	BT	71.41	----	29.11	----	42.30
GMW-O-7	10/2/2017	BT	70.98	----	28.18	----	42.80
GMW-O-8	10/2/2017	BT	70.91	----	29.85	----	41.06
GMW-O-9	10/2/2017	BT	73.50	----	33.25	----	40.25
GMW-O-10	10/2/2017	BT	73.98	----	34.96	----	39.02
GMW-O-11	10/2/2017	BT	74.17	----	33.54	----	40.63
GMW-O-12	10/2/2017	BT	73.49	32.00	33.20	1.20	NC
GMW-O-14	10/2/2017	BT	74.08	----	33.75	----	40.33
GMW-O-15	10/2/2017	BT	74.23	30.33	31.92	1.59	NC
GMW-O-16	10/2/2017	BT	74.10	----	31.47	----	42.63
GMW-O-17	10/2/2017	BT	73.78	----	30.70	----	43.08
GMW-O-18	10/2/2017	BT	74.36	31.30	31.32	0.02	NC
GMW-O-19	10/2/2017	BT	74.46	----	31.20	----	43.26
GMW-O-20	10/2/2017	BT	73.32	----	33.03	----	40.29

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Well	Date	Gauged By	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Water (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)	
GMW-O-21	10/2/2017	BT	71.43	----	33.45	----	37.98	
GMW-O-23	10/2/2017	BT	73.63	----	34.70	----	38.93	
GMW-O-24	10/2/2017	BT	74.39	----	31.90	----	42.49	
GMW-SF-7	10/2/2017	BT	75.26	----	33.17	----	42.09	
GMW-SF-8	10/2/2017	BT	76.75	----	34.54	----	42.21	
GW-1	10/2/2017	SGI	75.97	----	34.92	----	41.05	
GW-2	10/2/2017	SGI	75.78	----	34.53	----	41.25	
GW-3	10/2/2017	SGI	75.79	----	34.66	----	41.13	
GW-3	10/25/2017	SGI	75.79	----	34.77	----	41.02	
GW-4	10/2/2017	SGI	73.86	well full of mud				
GW-5R	10/2/2017	SGI	79.06	----	37.61	----	41.45	
GW-6	10/2/2017	SGI	76.38	----	35.03	----	41.35	
GW-7	10/3/2017	SGI	75.02	----	33.94	----	41.08	
GW-8	10/2/2017	SGI	76.15	----	34.88	----	41.27	
GW-13	10/2/2017	SGI	76.85	----	34.17	----	42.68	
GW-14R	10/3/2017	SGI	78.77	33.35	35.03	1.68	NC	
GW-15	10/3/2017	SGI	74.94	----	33.58	----	41.36	
GW-16	10/3/2017	SGI	76.33	----	34.57	----	41.76	
GWR-1R	10/2/2017	BT	76.64	----	37.26	----	39.38	
GWR-3	10/2/2017	BT	77.60	----	38.92	----	38.68	
HL-2	10/2/2017	BT	76.94	----	37.24	----	39.70	
HL-3	10/2/2017	BT	76.86	----	37.15	----	39.71	
MW-6	10/2/2017	BT	77.20	----	35.97	----	41.23	
MW-7	10/2/2017	BT	78.13	----	37.74	----	40.39	
MW-8	10/2/2017	BT	76.06	----	33.64	----	42.42	
MW-9	10/2/2017	BT	77.11	----	36.45	----	40.66	
MW-12	10/2/2017	BT	75.76	----	35.85	----	39.91	
MW-13	10/3/2017	SGI	78.25	----	36.48	----	41.77	
MW-14	10/2/2017	SGI	78.60	----	37.31	----	41.29	
MW-15R	10/2/2017	BT	74.85	----	34.58	----	40.27	
MW-16	10/3/2017	SGI	76.87	----	35.26	----	41.61	
MW-17	10/3/2017	SGI	77.86	----	35.78	----	42.08	
MW-18 (MID)	10/2/2017	BT	75.67	----	40.26	----	35.41	
MW-19 (MID)	10/2/2017	BT	78.14	----	40.50	----	37.64	
MW-20 (MID)	10/2/2017	BT	77.19	----	38.44	----	38.75	
MW-21 (MID)	10/2/2017	BT	77.55	----	37.85	----	39.70	
MW-22 (MID)	10/2/2017	SGI	79.57	----	40.16	----	39.41	
MW-24	10/2/2017	SGI	77.66	----	36.24	----	41.42	
MW-24	10/25/2017	SGI	77.66	----	36.25	----	41.41	
MW-26	10/2/2017	SGI	77.40	----	36.13	----	41.27	
MW-27	10/2/2017	SGI	78.46	----	37.61	----	40.85	
MW-28	10/3/2017	SGI	75.90	----	35.18	----	40.72	
MW-29	10/3/2017	SGI	79.13	----	37.64	----	41.49	
MW-O-1	10/2/2017	BT	75.48	----	DRY (to 8.77)	----	NC	
MW-O-2	10/2/2017	BT	71.90	----	34.67	----	37.23	
MW-SF-1	10/2/2017	BT	78.93	----	39.98	----	38.95	

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Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Gauged By	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Water (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)	
MW-SF-2	10/2/2017	BT	78.53	----	39.68	----	38.85	
MW-SF-3	10/2/2017	BT	78.12	----	39.20	----	38.92	
MW-SF-4	10/2/2017	BT	79.38	----	40.07	----	39.31	
MW-SF-5	10/2/2017	BT	79.74	----	DRY (to 38.09)	----	NC	
MW-SF-6	10/2/2017	BT	76.80	----	37.89	----	38.91	
MW-SF-9	10/2/2017	BT	74.10	Inaccessible - unable to locate				
MW-SF-10	10/2/2017	BT	76.53	----	DRY (to 29.64)	----	NC	
MW-SF-11	10/2/2017	BT	78.56	----	40.09	----	38.47	
MW-SF-12	10/2/2017	BT	78.07	----	39.31	----	38.76	
MW-SF-13	10/2/2017	BT	73.40	----	34.52	----	38.88	
MW-SF-14	10/2/2017	BT	78.16	----	DRY (to 36.03)	----	NC	
MW-SF-15	10/2/2017	BT	78.27	----	39.40	----	38.87	
MW-SF-16	10/2/2017	BT	78.21	----	DRY (to 34.82)	----	NC	
PW-1	10/2/2017	BT	75.52	----	34.40	----	41.12	
PW-2	10/2/2017	BT	74.71	----	DRY (to 25.84)	----	NC	
PW-3	10/2/2017	BT	73.71	----	33.26	----	40.45	
PZ-2	10/2/2017	BT	73.96	----	34.65	----	39.31	
PZ-3	10/3/2017	SGI	76.17	----	34.42	----	41.75	
PZ-5	10/2/2017	BT	73.97	----	31.45	----	42.52	
PZ-10	10/2/2017	BT	74.34	----	DRY (to 28.97)	----	NC	
RTF-18-E	9/27/2017	SGI	75.19	31.84	33.52	1.68	NC	
RTF-18-N	9/27/2017	SGI	75.17	31.49	33.02	1.53	NC	
RTF-18-NNW	9/27/2017	SGI	76.77	32.48	32.53	0.05	NC	
RTF-18-NW	9/27/2017	SGI	76.22	31.62	32.89	1.27	NC	
RTF-18-W	9/27/2017	SGI	74.86	31.98	33.49	1.51	NC	
TF-8	10/3/2017	SGI	74.86	----	33.53	----	41.33	
TF-9R	10/3/2017	SGI	78.00	----	37.05	----	40.95	
TF-16	9/27/2017	SGI	75.89	33.84	35.17	1.33	NC	
TF-18	9/27/2017	SGI	73.74	31.42	33.12	1.70	NC	
TF-19	10/3/2017	SGI	75.07	----	32.73	----	42.34	
TF-20R	10/3/2017	SGI	75.26	----	33.41	----	41.85	
TF-21	10/3/2017	SGI	77.91	----	36.13	----	41.78	
TF-23	10/3/2017	SGI	75.31	Could not find well; Well not gauged				
TF-24	10/2/2017	SGI	76.43	----	36.20	----	40.23	
VEW-1	10/2/2017	BT	NS	----	DRY (to 12.44)	----	----	
VEW-2	10/2/2017	BT	NS	----	DRY (to 26.60)	----	----	
WCW-1	10/2/2017	BT	72.86	----	31.74	----	41.12	
WCW-2	10/2/2017	BT	75.34	----	33.94	----	41.40	
WCW-3	10/2/2017	BT	76.16	----	34.79	----	41.37	
WCW-4	10/2/2017	BT	78.05	----	36.79	----	41.26	
WCW-5	10/2/2017	BT	73.49	----	32.34	----	41.15	
WCW-6	10/2/2017	BT	75.52	----	34.22	----	41.30	
WCW-7	10/2/2017	BT	76.44	----	35.34	----	41.10	
WCW-8	10/2/2017	BT	77.34	----	36.14	----	41.20	
WCW-9	10/2/2017	BT	77.74	----	36.49	----	41.25	
WCW-10	10/2/2017	BT	74.06	----	32.52	----	41.54	

TABLE 2
GROUNDWATER ELEVATIONS AND MEASURED PRODUCT THICKNESSES

Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Gauged By	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Water (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
WCW-11	10/2/2017	BT	75.29	-----	34.14	-----	41.15
WCW-12	10/2/2017	BT	76.27	-----	35.22	-----	41.05
WCW-13	10/2/2017	BT	77.70	-----	36.64	-----	41.06
WCW-14	10/2/2017	BT	78.81	-----	37.60	-----	41.21

Notes: feet MSL = feet below mean sea level
 feet btc = feet below top of casing
 SGI = The Source Group, Inc.
 BT = Blaine Tech Services, Inc.
 ----- = not applicable
 ns = not surveyed

TABLE 3
HISTORICAL AND CURRENT FLOATING PRODUCT SUMMARY
 Defense Fuel Supply Point Norwalk

Well ID	Maximum Product Thickness	Date (Maximum Thickness)	Most Recent Measured Thickness	Date Measured	Percent Reduction
North-Central Area					
EP-73	0.24*	4-Oct-17	0.24	4-Oct-17	0.0
GMW-7	5.68	28-May-96	0.00	3-Oct-17	100
GMW-11	2.00*	7-Aug-01	0.00	2-Oct-17	100
GMW-12	0.66	28-May-96	0.00	3-Oct-17	100
GMW-15	0.45*	28-May-96	0.00	2-Oct-17	100
GMW-17/GMW-17R	5.82	31-Dec-97	0.00	3-Oct-17	100
GMW-18	6.03	1-May-98	1.16	26-Sep-17	80.8
GMW-20	1.12*	7-Aug-01	0.00	3-Oct-17	100
GMW-21	5.32	28-May-96	0.50	2-Oct-17	90.6
GMW-34	4.18	20-Nov-96	0.00	1-Oct-10	100
GMW-35/GMW-35R	4.52	28-May-96	0.00	3-Oct-17	100
GMW-41	0.09	15-Apr-14	0.00	17-Apr-17	100
GMW-42	1.47	28-May-96	0.00	3-Oct-17	100
GMW-45	1.42	19-Apr-17	0.00	2-Oct-17	100
GMW-48	2.21	31-Dec-97	0.00	3-Oct-17	100
GMW-50	0.31*	7-May-01	0.00	14-Apr-16	100
GMW-51	2.01*	7-May-01	0.00	12-Apr-12	100
GMW-53	0.01*	8-Apr-10	0.00	12-Apr-12	100
GW-6	0.01*	7-Jul-11	0.00	2-Oct-17	100
GW-7	0.23*	19-Oct-15	0.00	3-Oct-17	100
GW-14/GW-14R	1.68*	3-Oct-17	1.68	3-Oct-17	0.0
MW-11	2.89	28-May-96	0.00	5-Apr-13	100
MW-29	0.25	20-Nov-96	0.00	3-Oct-17	100
PZ-3	6.87	1-May-98	0.00	3-Oct-17	100
RTF-18-E	1.68	27-Sep-17	1.68	27-Sep-17	0.0
RTF-18-N	1.53*	27-Sep-17	1.53	27-Sep-17	0.0
RTF-18-NNW	0.05*	27-Sep-17	0.05	27-Sep-17	0.0
RTF-18-NW	1.27	27-Sep-17	1.27	27-Sep-17	0.0
RTF-18-W	1.51	27-Sep-17	1.51	27-Sep-17	0.0
TF-9/TF-9R	0.04	25-May-99	0.00	3-Oct-17	100
TF-11	0.18	19-Sep-02	0.00	3-Apr-13	100
TF-13	2.92	31-Dec-97	0.00	3-Apr-13	100
TF-14	4.82	31-Dec-97	0.00	3-Apr-13	100
TF-15	3.77	31-Dec-97	0.00	20-Apr-17	100
TF-16	4.10	31-Dec-97	1.33	27-Sep-17	67.6
TF-17	2.96	1-May-06	0.00	27-Oct-14	100
TF-18	2.96	11-Apr-16	1.70	27-Sep-17	42.6
TF-19	2.26	20-Apr-15	0.00	3-Oct-17	100
TF-20/TF-20R	4.19	1-Dec-06	0.00	3-Oct-17	100
TF-21	0.36	15-May-00	0.00	3-Oct-17	100
TF-22	1.67	1-May-98	0.00	3-Apr-13	100
TF-23	0.39	3-Oct-16	0.00	20-Apr-17	100
TF-24	1.94	25-May-99	0.00	2-Oct-17	100
TF-26	1.10	9-Apr-14	1.10	9-Apr-14	0.0
East-Central Area					
GMW-58	2.71	7-May-01	0.00	3-Oct-17	100
GMW-59	2.17	5-May-00	0.00	3-Oct-17	100
GMW-61	0.02*	20-Oct-15	0.00	3-Oct-17	100
GMW-62	5.63	27-Oct-14	0.01	2-Oct-17	99.8
GMW-68	3.00	3-Oct-16	0.02	2-Oct-17	99.3
GW-15	6.07	13-Apr-13	0.00	3-Oct-17	100

TABLE 3
HISTORICAL AND CURRENT FLOATING PRODUCT SUMMARY
 Defense Fuel Supply Point Norwalk

Well ID	Maximum Product Thickness	Date (Maximum Thickness)	Most Recent Measured Thickness	Date Measured	Percent Reduction
Truck Rack Area					
GMW-4/GMW-4R	5.74	31-Oct-05	0.00	2-Oct-17	100
MW-9	1.59	28-Aug-07	0.00	2-Oct-17	100
MW-15/MW-15R	1.23	12-Nov-07	0.00	2-Oct-17	100
South-Central Area					
GMW-9	6.67	3-Jul-14	0.00	2-Oct-17	100
GMW-10	7.75	4-Nov-02	0.00	2-Oct-17	100
GMW-22	7.42	1-May-98	0.00	2-Oct-17	100
GMW-23	4.18	13-Nov-00	0.00	2-Oct-17	100
GMW-24	6.56	3-Jul-14	0.00	2-Oct-17	100
GMW-25	7.68	1-May-98	0.00	2-Oct-17	100
GMW-27/GMW-27R	0.67*	31-Dec-97	0.00	2-Oct-17	100
GMW-28	0.65	1-May-98	0.00	2-Oct-17	100
GMW-29	3.51	19-Oct-15	0.18	2-Oct-17	94.9
GMW-30	6.11	4-May-99	0.00	2-Oct-17	100
GMW-O-11	4.51	3-Nov-14	0.00	2-Oct-17	100
GMW-O-12	11.27	30-Oct-15	1.20	2-Oct-17	89.4
GMW-O-13	2.44	20-Nov-96	0.00	8-Apr-02	100
GMW-O-14	0.03*	31-Dec-97	0.00	2-Oct-17	100
GMW-O-20	5.03	7-Oct-13	0.00	2-Oct-17	100
GMW-O-21	2.42	2-Jul-15	0.00	2-Oct-17	100
GMW-O-23	4.56	7-Oct-13	0.00	2-Oct-17	100
GMW-SF-9	1.04	5-Sep-14	0.00	21-Oct-15	100
GWR-3	7.35	24-Jul-15	0.00	2-Oct-17	100
MW-18(MID)	0.61	28-May-96	0.00	2-Oct-17	100
MW-O-1	1.53	14-Aug-07	0.00	3-Oct-16	100
MW-O-2	5.19	21-May-15	0.00	2-Oct-17	100
MW-O-4	0.05*	4-May-99	0.00	8-Apr-02	100
MW-SF-1	7.17	6-May-14	0.00	2-Oct-17	100
MW-SF-2	16.82	1-Jul-97	0.00	2-Oct-17	100
MW-SF-3	1.53	7-Aug-01	0.00	2-Oct-17	100
MW-SF-4	8.07	19-Nov-99	0.00	2-Oct-17	100
MW-SF-5	0.02	4-Nov-02	0.00	17-Apr-17	100
MW-SF-6	7.94	20-Nov-96	0.00	2-Oct-17	100
MW-SF-9	9.02	20-Apr-15	0.00	11-Apr-16	100
MW-SF-10	0.14	4-Oct-10	0.00	3-Oct-16	100
MW-SF-11	4.03	20-Apr-15	0.00	2-Oct-17	100
MW-SF-12	5.59	5-Sep-14	0.00	2-Oct-17	100
MW-SF-13	5.85	19-Oct-15	0.00	2-Oct-17	100
MW-SF-14	1.25	14-Apr-14	0.00	3-Oct-16	100
MW-SF-15	3.03	19-Oct-15	0.00	2-Oct-17	100
MW-SF-16	0.59	14-Nov-13	0.00	17-Apr-17	100
PZ-2	1.87	9-Aug-99	0.00	2-Oct-17	100
Southeastern Area					
GMW-36	4.50	26-Dec-12	0.00	2-Oct-17	100
GMW-O-15	6.00	28-May-96	1.59	2-Oct-17	73.5
GMW-O-18	4.94	13-Dec-16	0.02	2-Oct-17	99.6

Notes: Measured product thicknesses are in feet.
 * = indicates this was the only recorded incidence of free product.
 ----- = not applicable

TABLE 4
ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Sample Date	Sampled By	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
EXP-1	10/4/2017	SGI	<100	260	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
DUP-3 (EXP-1)	10/4/2017	SGI	<100	310	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
EXP-1	10/4/2017	BT	<50	220	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
EXP-1	10/25/2017	SGI	-----	230	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
EXP-2	10/2/2017	SGI	<100	150	1.4	<0.50	5.4	1.8	<0.50	<1.0	<10	<2.0	<2.0	<2.0
EXP-2	10/3/2017	BT	<50	<100	0.98	<0.50	4.8	1.3	<0.50	<0.50	<10	<1.0	<1.0	<1.0
EXP-2	10/25/2017	SGI	-----	140	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
EXP-3	10/4/2017	SGI	<100	160	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
EXP-3	10/4/2017	BT	<50	100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
EXP-3	10/25/2017	SGI	-----	<100	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
EXP-4	10/3/2017	BT	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
EXP-5	10/3/2017	BT	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-4R	10/5/2017	BT	<50	70	1.3	<0.50	<0.50	<0.50	<0.50	0.56	<10	<1.0	<1.0	<1.0
DUP-3 (GMW-4R)	10/5/2017	BT	51	85	1.3	<0.50	<0.50	<0.50	<0.50	0.66	<10	<1.0	<1.0	<1.0
GMW-6	10/3/2017	SGI	<100	270	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
DUP-2 (GMW-6)	10/3/2017	SGI	<100	250	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-7	10/10/2017	SGI	240	1,400	2.2	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-8	10/5/2017	BT	<50	270	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-9	10/5/2017	BT	<50	100	<0.50	<0.50	<0.50	<0.50	0.56	0.62	83	4.7	<1.0	<1.0
GMW-12	10/4/2017	SGI	<100	1,100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-13	10/4/2017	BT	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-14R	10/5/2017	BT	<50	71	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-15	10/5/2017	SGI	<100	2,000	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-16	10/5/2017	SGI	<100	370	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-17R	10/9/2017	SGI	640	1,200	64	<0.50	5.0	2.89	<0.50	2.5	19	<2.0	<2.0	<2.0
GMW-19	10/3/2017	SGI	<100	210	<0.50	<0.50	<0.50	<1.5	<0.50	1.5	<10	<2.0	<2.0	<2.0
GMW-23	10/6/2017	BT	230	17,000	<0.50	<0.50	1.3	1.4	<0.50	<0.50	48	9.6	<1.0	<1.0
GMW-25	10/5/2017	BT	400	11,000	<0.50	<0.50	<0.50	<0.50	1.0	0.64	23	1.5	<1.0	<1.0
GMW-26	10/5/2017	BT	<50	<50	<0.50	<0.50	<0.50	<0.50	1.4	<0.50	12	2.6	<1.0	<1.0
GMW-28	10/5/2017	BT	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.88	110	24	<1.0	<1.0
GMW-30	10/6/2017	BT	280	3,500	28	<0.50	1.7	4.6	<0.50	1.2	28	4.9	<1.0	<1.0
GMW-31	10/5/2017	SGI	<100	270	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-35R	10/9/2017	SGI	160	1,400	9.4	<0.50	<0.50	<1.5	<0.50	5.0	770	<2.0	<2.0	<2.0
GMW-36	10/5/2017	BT	630	340	48	1.3	25	14	1.8	27	2,500	<1.0	<1.0	1.8
GMW-37	10/3/2017	BT	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-38	10/3/2017	BT	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-39	10/4/2017	BT	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-42	10/3/2017	SGI	<100	180	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0

TABLE 4
ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Sample Date	Sampled By	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-44	10/3/2017	SGI	<100	130	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-47	10/4/2017	SGI	<100	980	<0.50	<0.50	<0.50	<1.5	<0.50	8.6	410	<2.0	<2.0	<2.0
GMW-48	10/9/2017	SGI	360	1,400	190	<1.0	<1.0	<3.0	<1.0	<2.0	<20	<4.0	<4.0	<4.0
DUP-7 (GMW-48)	10/9/2017	SGI	360	1,600	180	<1.0	<1.0	<3.0	<1.0	<2.0	<20	<4.0	<4.0	<4.0
GMW-56	10/3/2017	SGI	<100	120	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-57	10/4/2017	SGI	<100	380	<0.50	<0.50	<0.50	<1.5	<0.50	5.1	52	<2.0	<2.0	<2.0
GMW-58	10/9/2017	SGI	<100	960	21	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-59	10/9/2017	SGI	210	960	17	<1.0	<1.0	<3.0	<1.0	<2.0	<20	<4.0	<4.0	<4.0
GMW-60	10/9/2017	SGI	<100	430	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-61	10/9/2017	SGI	<100	1,000	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-63	10/2/2017	SGI	<100	170	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-63	10/25/2017	SGI	-----	440	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
GMW-64	10/2/2017	SGI	<100	220	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-64	10/25/2017	SGI	-----	620	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
GMW-65	10/2/2017	SGI	<100	100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-65	10/25/2017	SGI	-----	320	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
GMW-66R	10/4/2017	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-67	10/2/2017	SGI	<100	520	2.6	<0.50	0.70	0.51	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-69	10/2/2017	SGI	2,100	380	220	<1.0	210	118	<1.0	<2.0	<20	<4.0	<4.0	<4.0
DUP-1 (GMW-69)	10/2/2017	SGI	2,300	340	250	<2.5	250	118	<2.5	<5.0	<50	<10	<10	<10
GMW-69	10/25/2017	SGI	-----	830	870	4.8	950	1,000	<2.5	<5.0	<50	<10	<10	<10
GMW-O-1	10/4/2017	BT	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-2	10/4/2017	BT	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-3	10/4/2017	BT	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-4	10/4/2017	BT	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-5	10/4/2017	BT	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-9	10/4/2017	BT	<50	<50	<0.50	<0.50	<0.50	3.3	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-10	10/4/2017	BT	73	<50	28	<0.50	<0.50	<0.50	6.3	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-14	10/6/2017	BT	13,000	2,300	5,700	140	190	150	<50	<25	<500	190	<50	<50
DUP-7 (GMW-O-14)	10/6/2017	BT	13,000	2,400	5,700	150	190	150	<50	<25	<500	190	<50	<50
GMW-O-16	10/4/2017	BT	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-17	10/4/2017	BT	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-19	10/4/2017	BT	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-20	10/6/2017	BT	6,500	21,000	460	16	36	290	<4.0	7.4	<40	10	<4.0	<4.0
GMW-O-21	10/6/2017	BT	9,700	750	4,300	<20	22	<20	<40	<20	<400	52	<40	<40
GMW-O-23	10/6/2017	BT	<50	1,300	0.78	<0.50	0.60	2.1	<0.50	0.99	24	4.9	<1.0	<1.0
GMW-O-24	10/4/2017	BT	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0

TABLE 4
ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Sample Date	Sampled By	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-SF-7	10/4/2017	BT	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-SF-8	10/4/2017	BT	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GW-2	10/5/2017	SGI	<100	160	<0.50	<0.50	<0.50	<1.5	1.9	<1.0	<10	<2.0	<2.0	<2.0
GW-3	10/2/2017	SGI	<100	290	2.4	<0.50	6.0	2.0	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GW-3	10/25/2017	SGI	----	240	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GW-6	10/5/2017	SGI	<100	230	<0.50	<0.50	<0.50	<1.5	<0.50	1.9	<10	<2.0	<2.0	<2.0
DUP-5 (GW-6)	10/5/2017	SGI	<100	240	<0.50	<0.50	<0.50	<1.5	<0.50	1.7	<10	<2.0	<2.0	<2.0
GW-8	10/3/2017	SGI	<100	150	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GW-13	10/5/2017	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	1.4	<1.0	<10	<2.0	<2.0	<2.0
GW-15	10/9/2017	SGI	990	610	550	<5.0	<5.0	10	<5.0	<10	<100	<20	<20	<20
GW-16	10/3/2017	SGI	<100	<100	2.2	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GWR-1R	10/5/2017	BT	<50	<50	<0.50	<0.50	<0.50	<0.50	0.96	<0.50	76	5.2	<1.0	<1.0
DUP-2 (GWR-1R)	10/5/2017	BT	<50	<50	<0.50	<0.50	<0.50	<0.50	1.0	<0.50	100	5.6	<1.0	<1.0
HL-2	10/5/2017	BT	<50	270	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
HL-3	10/5/2017	BT	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
MW-6	10/3/2017	BT	<50	<50	<0.50	<0.50	<0.50	<0.50	14	2.0	<10	1.3	<1.0	<1.0
MW-7	10/3/2017	BT	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
MW-8	10/4/2017	BT	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
MW-9	10/5/2017	BT	<100	340	<0.50	<0.50	<0.50	<0.50	<1.0	2.6	22	<1.0	<1.0	<1.0
DUP-4 (MW-9)	10/5/2017	BT	<100	360	<0.50	<0.50	<0.50	<0.50	<1.0	2.6	18	<1.0	<1.0	<1.0
MW-12	10/4/2017	BT	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
MW-13	10/3/2017	SGI	<100	270	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
MW-15R	10/5/2017	BT	<50	79	<0.50	<0.50	<0.50	<0.50	<0.50	0.56	<10	<1.0	<1.0	<1.0
MW-16	10/4/2017	SGI	<100	100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
MW-17	10/3/2017	SGI	<100	110	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
MW-18 (MID)	10/5/2017	BT	<50	120	<0.50	<0.50	<0.50	<0.50	<0.50	0.94	13	1.7	<1.0	<1.0
MW-19 (MID)	10/3/2017	BT	<50	<50	<0.50	<0.50	<0.50	<0.50	2.5	<0.50	22	4.2	<1.0	<1.0
MW-20 (MID)	10/3/2017	BT	<50	<100	<0.50	<0.50	<0.50	<0.50	8.6	6.8	16	5.1	<1.0	<1.0
MW-21 (MID)	10/3/2017	BT	<50	67	<0.50	<0.50	<0.50	<0.50	3.1	1.4	10	<1.0	<1.0	<1.0
DUP-1 [MW-21 (MID)]	10/3/2017	BT	<50	71	<0.50	<0.50	<0.50	<0.50	3.0	1.2	<10	<1.0	<1.0	<1.0
MW-22 (MID)	10/5/2017	SGI	<100	100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
MW-24	10/2/2017	SGI	<100	210	1.0	<0.50	4.7	1.7	<0.50	<1.0	<10	<2.0	<2.0	<2.0
MW-24	10/25/2017	SGI	----	410	<0.50	<0.50	<0.50	<1.5	<0.50	1.0	<10	<2.0	<2.0	<2.0
MW-26	10/4/2017	SGI	210	370	1.0	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
DUP-4 (MW-26)	10/4/2017	SGI	230	330	0.91	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
MW-27	10/4/2017	SGI	<100	260	<0.50	<0.50	<0.50	<1.5	<0.50	3.1	<10	<2.0	<2.0	<2.0
MW-29	10/4/2017	SGI	<100	630	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
MW-O-2	10/6/2017	BT	23,000	11,000	9,400	<50	99	820	<100	210	1,500	130	<100	<100

TABLE 4
ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Sample Date	Sampled By	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-SF-1	10/6/2017	BT	<100	570	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<1.0	<1.0	<1.0
MW-SF-4	10/6/2017	BT	<200	3,300	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<20	<2.0	<2.0	<2.0
MW-SF-6	10/6/2017	BT	1,300	71,000	98	<1.0	32	53	<2.0	3.1	32	4.2	<2.0	<2.0
MW-SF-13	10/6/2017	BT	<100	2,700	2.0	0.67	<0.50	<0.50	<1.0	0.98	18	2.6	<1.0	<10
MW-SF-15	10/6/2017	BT	110	1,300	1.5	<0.50	<0.50	<0.50	<1.0	1.3	180	52	<1.0	<1.0
PW-3	10/3/2017	BT	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
PZ-2	10/5/2017	BT	120	440	<0.50	<0.50	<0.50	2.6	<0.50	1.1	<10	<1.0	<1.0	<1.0
DUP-6 (PZ-2)	10/5/2017	BT	330	500	<0.50	<0.50	<0.50	4.1	<0.50	1.0	<10	<1.0	<1.0	<1.0
PZ-3	10/10/2017	SGI	710	1,500	28	<1.0	<1.0	<3.0	<1.0	<2.0	<20	<4.0	<4.0	<4.0
PZ-5	10/5/2017	BT	910	270	1.7	<1.0	20	1.6	<2.0	23	30,000	<2.0	<2.0	<2.0
DUP-5 (PZ-5)	10/5/2017	BT	760	270	1.7	<1.0	19	1.9	<2.0	21	25,000	<2.0	<2.0	<2.0
TF-8	10/5/2017	SGI	<100	640	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
TF-9R	10/5/2017	SGI	1,500	1,500	36	<0.50	6.5	0.51	<0.50	<1.0	<10	<2.0	<2.0	<2.0
DUPE-6 (TF-9R)	10/5/2017	SGI	1,500	1,700	34	<1.0	5.9	<3.0	<1.0	<2.0	<20	<4.0	<4.0	<4.0
TF-20R	10/10/2017	SGI	1,300	660	490	<5.0	<5.0	<15	<5.0	<10	<100	<20	<20	<20
TF-21	10/9/2017	SGI	350	1,700	4.3	<0.50	<0.50	<1.5	<0.50	<1.0	18	<2.0	<2.0	<2.0
TF-24	10/5/2017	SGI	<100	2,500	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
WCW-2	10/3/2017	BT	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-3	10/3/2017	BT	<50	<50	<0.50	<0.50	<0.50	<0.50	0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-4	10/3/2017	BT	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-5	10/3/2017	BT	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-6	10/3/2017	BT	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-7	10/6/2017	BT	<50	120	1.2	<0.50	<0.50	<0.50	4.8	<0.50	<10	1.2	<1.0	<1.0
WCW-8	10/3/2017	BT	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-12	10/3/2017	BT	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-13	10/3/2017	BT	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-14	10/3/2017	BT	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0

Notes: Detected concentrations are shown in **bold**.
 TPH = total petroleum hydrocarbons
 BTEX Compounds = benzene, toluene, ethylbenzene, and total xylenes
 1,2-DCA = 1,2-dichloroethane
 TPHg = total petroleum hydrocarbons as gasoline
 TPHd = total petroleum hydrocarbons as diesel
 MTBE = methyl tertiary-butyl ether
 TBA = tertiary-butyl alcohol
 DIPE = diisopropyl ether

ETBE = ethyl tertiary-butyl ether
 TAME = tertiary-amyl methyl ether
 µg/L = micrograms per liter
 SGI = The Source Group, Inc.
 <100 = not detected at or above the indicated laboratory reporting limit
 ---- = not analyzed
 BT = Blaine Tech Services, Inc.
 "DUP" indicates a laboratory-blind duplicate sample.

TABLE 5
SUMMARY OF ADDITIONAL VOLATILE ORGANIC COMPOUNDS DETECTED IN GROUNDWATER, OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Sampled By	Sample Date	Acetone (µg/L)	n-Butylbenzene (µg/L)	sec-Butylbenzene (µg/L)	tert-Butylbenzene (µg/L)	Carbon disulfide (µg/L)	1,1-Dichloroethane (µg/L)	cis-1,2-Dichloroethene (µg/L)	Isopropylbenzene (µg/L)	4-Isopropyltoluene (µg/L)	Naphthalene (µg/L)	n-Propylbenzene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)
EXP-1	SGL	10/4/2017	18	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	<0.50
DUP-3 (EXP-1)	SGL	10/4/2017	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	<0.50
EXP-1	BT	10/4/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
EXP-2	SGL	10/2/2017	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.72	<1.0	<2.0	0.63	2.9	<0.50
EXP-2	BT	10/3/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	2.3	<1.0
EXP-2	SGL	10/25/2017	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	<0.50
EXP-3	SGL	10/4/2017	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	<0.50
EXP-3	BT	10/4/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
EXP-4	BT	10/3/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
EXP-5	BT	10/3/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
GMW-4R	BT	10/5/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	1.1	<1.0	<10	<1.0	<1.0	<1.0
DUP-3 (GMW-4R)	BT	10/5/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	1.1	<1.0	<10	<1.0	<1.0	<1.0
GMW-6	SGL	10/3/2017	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	<0.50
DUP-2 (GMW-6)	SGL	10/3/2017	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	<0.50
GMW-7	SGL	10/10/2017	<10	<0.50	1.1	0.80	<0.50	<0.50	<0.50	2.9	<1.0	<2.0	1.2	<0.50	2.5
GMW-8	BT	10/5/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
GMW-9	BT	10/5/2017	12	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
GMW-12	SGL	10/4/2017	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	<0.50
GMW-13	BT	10/4/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
GMW-14R	BT	10/5/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
GMW-15	SGL	10/5/2017	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	<0.50
GMW-16	SGL	10/5/2017	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	<0.50
GMW-17R	SGL	10/9/2017	<10	<0.50	3.4	1.0	<0.50	<0.50	<0.50	4.2	<1.0	5.7	1.4	11	<0.50
GMW-19	SGL	10/3/2017	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	<0.50
GMW-23	BT	10/6/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	4.0	1.4
GMW-25	BT	10/5/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	2.1
GMW-26	BT	10/5/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
GMW-28	BT	10/5/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
GMW-30	BT	10/6/2017	<10	<1.0	<1.0	<1.0	<2.5	1.5	<1.0	1.0	<1.0	<10	2.5	9.5	4.6
GMW-31	SGL	10/5/2017	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	<0.50
GMW-35R	SGL	10/9/2017	12	<0.50	2.7	1.1	<0.50	1.3	<0.50	6.6	<1.0	<2.0	1.2	<0.50	<0.50

TABLE 5
SUMMARY OF ADDITIONAL VOLATILE ORGANIC COMPOUNDS DETECTED IN GROUNDWATER, OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Sampled By	Sample Date	Acetone (µg/L)	n-Butylbenzene (µg/L)	sec-Butylbenzene (µg/L)	tert-Butylbenzene (µg/L)	Carbon disulfide (µg/L)	1,1-Dichloroethane (µg/L)	cis-1,2-Dichloroethene (µg/L)	Isopropylbenzene (µg/L)	4-Isopropyltoluene (µg/L)	Naphthalene (µg/L)	n-Propylbenzene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)
GMW-36	BT	10/5/2017	<20	2.5	2.5	<1.0	<5.0	<1.0	<1.0	4.0	1.1	17	14	25	4.0
GMW-37	BT	10/3/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
GMW-38	BT	10/3/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
GMW-39	BT	10/4/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
GMW-42	SGI	10/3/2017	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	<0.50
GMW-44	SGI	10/3/2017	15	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	<0.50
GMW-47	SGI	10/4/2017	<10	<0.50	<0.50	<0.50	<0.50	0.96	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	<0.50
GMW-48	SGI	10/9/2017	<20	<1.0	1.5	<1.0	<1.0	<1.0	3.4	15	<2.0	<4.0	<1.0	<1.0	<1.0
DUP-7 (GMW-48)	SGI	10/9/2017	<20	<1.0	1.8	<1.0	<1.0	<1.0	3.6	18	<2.0	<4.0	1.1	<1.0	<1.0
GMW-56	SGI	10/3/2017	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	<0.50
GMW-58	SGI	10/9/2017	15	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.0	<1.0	<2.0	<0.50	<0.50	<0.50
GMW-57	SGI	10/4/2017	<10	<0.50	<0.50	<0.50	<0.50	0.64	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	<0.50
GMW-59	SGI	10/9/2017	<20	<1.0	2.9	1.4	<1.0	<1.0	4.6	21	<2.0	<4.0	<1.0	<1.0	<1.0
GMW-60	SGI	10/9/2017	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.72	<1.0	<2.0	<0.50	<0.50	<0.50
GMW-61	SGI	10/9/2017	<10	<0.50	<0.50	0.60	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	<0.50
GMW-63	SGI	10/2/2017	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	<0.50
GMW-64	SGI	10/2/2017	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	<0.50
GMW-65	SGI	10/2/2017	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	<0.50
GMW-66R	SGI	10/4/2017	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	<0.50
GMW-67	SGI	10/2/2017	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	2.2	<1.0	6.3	1.2	0.85	<0.50
GMW-69	SGI	10/2/2017	<20	3.4	<1.0	<1.0	<1.0	<1.0	<1.0	40	<2.0	61	43	150	30
DUP-1 (GMW-69)	SGI	10/2/2017	<50	3.2	<2.5	<2.5	<2.5	<2.5	<2.5	39	<5.0	75	43	170	29
GMW-69	SGI	10/25/2017	<50	14	<2.5	<2.5	<2.5	<2.5	<2.5	120	6.6	180	130	500	140
GMW-O-1	BT	10/4/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
GMW-O-2	BT	10/4/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
GMW-O-3	BT	10/4/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
GMW-O-4	BT	10/4/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
GMW-O-5	BT	10/4/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
GMW-O-9	BT	10/4/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	3.9	1.3
GMW-O-10	BT	10/4/2017	<10	<1.0	<1.0	<1.0	<2.5	2.1	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
GMW-O-14	BT	10/6/2017	<1,000	<50	<50	<50	<250	<50	<50	<50	<50	<200	<50	72	<50
DUP-7 (GMW-O-14)	BT	10/6/2017	<1,000	<50	<50	<50	<250	<50	<50	<50	<50	<200	<50	72	<50

TABLE 5
SUMMARY OF ADDITIONAL VOLATILE ORGANIC COMPOUNDS DETECTED IN GROUNDWATER, OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Sampled By	Sample Date	Acetone (µg/L)	n-Butylbenzene (µg/L)	sec-Butylbenzene (µg/L)	tert-Butylbenzene (µg/L)	Carbon disulfide (µg/L)	1,1-Dichloroethane (µg/L)	cis-1,2-Dichloroethene (µg/L)	Isopropylbenzene (µg/L)	4-Isopropyltoluene (µg/L)	Naphthalene (µg/L)	n-Propylbenzene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)
GMW-O-16	BT	10/4/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
GMW-O-17	BT	10/4/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
GMW-O-19	BT	10/4/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
GMW-O-20	BT	10/6/2017	<80	11	15	<4.0	<20	<4.0	<4.0	17	7.9	86	35	380	150
GMW-O-21	BT	10/6/2017	<800	<40	<40	<40	<200	<40	<40	<40	<40	310	<40	<40	<40
GMW-O-23	BT	10/6/2017	10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	1.2	1.1
GMW-O-24	BT	10/4/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
GMW-SF-7	BT	10/4/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
GMW-SF-8	BT	10/4/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
GW-2	SGI	10/5/2017	14	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	<0.50
GW-3	SGI	10/2/2017	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.79	<1.0	2.4	0.75	3.1	0.55
GW-3	SGI	10/25/2017	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	<0.50
GW-6	SGI	10/5/2017	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	<0.50
DUP-5 (GW-6)	SGI	10/5/2017	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	<0.50
GW-8	SGI	10/3/2017	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	<0.50
GW-13	SGI	10/5/2017	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	<0.50
GW-15	SGI	10/9/2017	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	29	<10	37	24	<5.0	<5.0
GW-16	SGI	10/3/2017	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.95	<1.0	<2.0	<0.50	<0.50	<0.50
GWR-1R	BT	10/5/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
DUP-2 (GWR-1R)	BT	10/5/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
HL-2	BT	10/5/2017	10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
HL-3	BT	10/5/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
MW-6	BT	10/3/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
MW-7	BT	10/3/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
MW-8	BT	10/4/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
MW-9	BT	10/5/2017	<20	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
DUP-4 (MW-9)	BT	10/5/2017	<20	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
MW-12	BT	10/4/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
MW-13	SGI	10/3/2017	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	<0.50
MW-15R	BT	10/5/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
MW-16	SGI	10/4/2017	10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	<0.50
MW-17	SGI	10/3/2017	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	<0.50

TABLE 5
SUMMARY OF ADDITIONAL VOLATILE ORGANIC COMPOUNDS DETECTED IN GROUNDWATER, OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Sampled By	Sample Date	Acetone (µg/L)	n-Butylbenzene (µg/L)	sec-Butylbenzene (µg/L)	tert-Butylbenzene (µg/L)	Carbon disulfide (µg/L)	1,1-Dichloroethane (µg/L)	cis-1,2-Dichloroethene (µg/L)	Isopropylbenzene (µg/L)	4-Isopropyltoluene (µg/L)	Naphthalene (µg/L)	n-Propylbenzene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)
MW-18 (MID)	BT	10/5/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
MW-19 (MID)	BT	10/3/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
MW-20 (MID)	BT	10/3/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
MW-21 (MID)	BT	10/3/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
DUP-1 [MW-21 (MID)]	BT	10/3/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
MW-22 (MID)	SGI	10/5/2017	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	<0.50
MW-24	SGI	10/2/2017	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.61	<1.0	<2.0	0.57	2.8	<0.50
MW-24	SGI	10/25/2017	18	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	<0.50
MW-26	SGI	10/4/2017	13	<0.50	2.5	0.98	<0.50	<0.50	<0.50	13	<1.0	4.5	7.2	<0.50	<0.50
DUP-4 (MW-26)	SGI	10/4/2017	13	<0.50	2.4	0.94	<0.50	<0.50	<0.50	13	<1.0	4.8	7.2	<0.50	<0.50
MW-27	SGI	10/4/2017	14	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	<0.50
MW-29	SGI	10/4/2017	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	<0.50
MW-O-2	BT	10/6/2017	<2,000	<100	<100	<100	<500	<100	<100	<100	<100	<400	<100	510	270
MW-SF-1	BT	10/6/2017	<20	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
MW-SF-4	BT	10/6/2017	<40	<2.0	<2.0	<2.0	<10	<2.0	<2.0	<2.0	<2.0	<10	<2.0	<2.0	<2.0
MW-SF-6	BT	10/6/2017	<40	<2.0	<2.0	<2.0	<10	<2.0	<2.0	3.8	<2.0	16	7.6	68	6.4
MW-SF-13	BT	10/6/2017	<20	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
MW-SF-15	BT	10/6/2017	<20	<1.0	<1.0	<1.0	5.6	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
PW-3	BT	10/3/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
PZ-2	BT	10/5/2017	12	1.2	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	9.7	4.7
DUP-6 (PZ-2)	BT	10/5/2017	<10	1.3	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	19	7.9
PZ-3	SGI	10/10/2017	<20	<1.0	11	2.4	<1.0	<1.0	<1.0	69	<2.0	21	49	<1.0	<1.0
PZ-5	BT	10/5/2017	<40	<2.0	<2.0	<2.0	<10	<2.0	<2.0	3.0	<2.0	30	6.6	10	<2.0
DUP-5 (PZ-5)	BT	10/5/2017	<40	<2.0	<2.0	<2.0	<10	<2.0	<2.0	3.0	<2.0	26	6.5	11	<2.0
TF-8	SGI	10/5/2017	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	<0.50
TF-9R	SGI	10/5/2017	<10	<0.50	21	3.8	<0.50	<0.50	<0.50	80	<1.0	140	48	11	<0.50
DUPE-6 (TF-9R)	SGI	10/5/2017	<20	<1.0	24	3.3	<1.0	<1.0	<1.0	110	<2.0	150	53	9.6	<1.0
TF-20R	SGI	10/10/2017	<100	<5.0	11	<5.0	<5.0	<5.0	<5.0	85	<10	94	75	<5.0	<5.0
TF-21	SGI	10/9/2017	19	<0.50	4.4	1.1	<0.50	<0.50	<0.50	27	<1.0	6.8	11	<0.50	<0.50
TF-24	SGI	10/5/2017	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	<0.50
WCW-2	BT	10/3/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0

TABLE 5
SUMMARY OF ADDITIONAL VOLATILE ORGANIC COMPOUNDS DETECTED IN GROUNDWATER, OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Sampled By	Sample Date	Acetone (µg/L)	n-Butylbenzene (µg/L)	sec-Butylbenzene (µg/L)	tert-Butylbenzene (µg/L)	Carbon disulfide (µg/L)	1,1-Dichloroethane (µg/L)	cis-1,2-Dichloroethene (µg/L)	Isopropylbenzene (µg/L)	4-Isopropyltoluene (µg/L)	Naphthalene (µg/L)	n-Propylbenzene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)
WCW-3	BT	10/3/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
WCW-4	BT	10/3/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
WCW-5	BT	10/3/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
WCW-6	BT	10/3/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
WCW-7	BT	10/6/2017	26	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
WCW-8	BT	10/3/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
WCW-12	BT	10/3/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
WCW-13	BT	10/3/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
WCW-14	BT	10/3/2017	<10	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0

Notes: Detected concentrations are shown in **bold**.
 MEK = methyl ethyl ketone
 µg/L = micrograms per liter
 SGI = The Source Group, Inc.
 BT = Blaine Tech Services, Inc.
 <0.50 = not detected at or above the indicated laboratory reporting limit
 "DUP" indicates a laboratory-blind duplicate sample.

TABLE 6
ANALYTICAL RESULTS FOR ANALYTES DETECTED IN FIELD DUPLICATE, SPLIT, AND CONFIRMATION SAMPLES
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Sample ID	Sampled By	Sample Date	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Methyl tertiary-Butyl Ether (µg/L)	tertiary-Butyl Alcohol (µg/L)	Diisopropyl Ether (µg/L)	Acetone (µg/L)	n-Butylbenzene (µg/L)	sec-Butylbenzene (µg/L)	tert-Butylbenzene (µg/L)	1,2-Dichloroethane (µg/L)	cis-1,2-Dichloroethene (µg/L)	Isopropylbenzene (µg/L)	4-Isopropyltoluene (µg/L)	Naphthalene (µg/L)	n-Propylbenzene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)
PZ-5	BT	10/5/2017	910	270	1.7	<1.0	20	1.6	23	30,000	<2.0	<40	<2.0	<2.0	<2.0	<2.0	<2.0	3.0		30	6.6	10	<2.0
DUP-5 (PZ-5)	BT	10/5/2017	760	270	1.7	<1.0	19	1.9	21	25,000	<2.0	<40	<2.0	<2.0	<2.0	<2.0	<2.0	3.0		26	6.5	11	<2.0
TF-9R	SIG	10/5/2017	1,500	1,500	36	<0.50	6.5	0.51	<1.0	<10	<2.0	<10	<0.50	21	3.8	<0.50	<0.50	80		140	48	11	<0.50
DUPE-6 (TF-9R)	SIG	10/5/2017	1,500	1,700	34	<1.0	5.9	<3.0	<2.0	<20	<4.0	<20	<1.0	24	3.3	<1.0	<1.0	110		150	23	9.6	<1.0

Notes: Detected concentrations are shown in **bold**.
 Confirmation samples are shaded.
 TPHg = total petroleum hydrocarbons as gasoline
 TPHd = total petroleum hydrocarbons as diesel
 µg/L = micrograms per liter

SIG = The Source Group, Inc.
 <100 = not detected at or above the indicated laboratory reporting limit
 ----- = not analyzed
 BT = Blaine Tech Services, Inc.
 "DUPE" and "DUP" indicate laboratory-blind duplicate samples.

**TABLE 7
ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS,
AND SELECTED VOCs IN TRIP BLANKS AND EQUIPMENT BLANKS**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Sample ID	Sampled By	Sample Date	TPHg (µg/L)	TPHd (µg/L)	Acetone (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	1,2-Dichloroethane (µg/L)	Methyl tertiary-Butyl Ether (µg/L)	tertiary-Butyl Alcohol (µg/L)
QCTB-1	SGL	10/2/2017	-----	-----	<10	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10
QCEB-1	SGL	10/2/2017	-----	-----	<10	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10
QCEB-1	SGL	10/3/2017	-----	-----	<10	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10
TB-1	BT	10/3/2017	-----	-----	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10
EB-1	BT	10/3/2017	<50	<50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10
EB-2	BT	10/3/2017	<50	<50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10
QCTB-1	SGL	10/4/2017	-----	-----	<10	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10
QCEB-1	SGL	10/4/2017	-----	-----	<10	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10
TB-2	BT	10/4/2017	-----	-----	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10
EB-3	BT	10/4/2017	<50	<50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10
EB-4	BT	10/4/2017	<50	<50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10
QCTB-1	SGL	10/5/2017	-----	-----	<10	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10
QCEB-1	SGL	10/5/2017	-----	-----	<10	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10
TB-3	BT	10/5/2017	-----	-----	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10
EB-5	BT	10/5/2017	<50	<50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10
EB-6	BT	10/5/2017	<50	<50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10
TB-4	BT	10/6/2017	-----	-----	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10
EB-7	BT	10/6/2017	<50	<50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10
EB-8	BT	10/6/2017	<50	<50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10
QCTB-1	SGL	10/9/2017	-----	-----	<10	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10
QCEB-1	SGL	10/9/2017	-----	-----	<10	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10
QCEB-1	SGL	10/10/2017	-----	-----	<10	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10
QCTB-1	SGL	10/25/2017	-----	-----	<10	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10
QCEB-1	SGL	10/25/2017	-----	-----	20	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10
QCEB-1	SGL	10/25/2017	-----	-----	21	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10

Notes: Detected concentrations are shown in **bold**.
 TPH = total petroleum hydrocarbons
 BTEX Compounds = benzene, toluene, ethylbenzene, and total xylenes
 VOCs = volatile organic compounds
 TPHg = total petroleum hydrocarbons as gasoline
 TPHd = total petroleum hydrocarbons as diesel
 µg/L = micrograms per liter
 SGL = The Source Group, Inc.
 ----- = not analyzed
 <0.50 = not detected at or above the indicated laboratory reporting limit
 BT = Blaine Tech Services, Inc.

APPENDIX A
SEMIANNUAL EVENT FIELD FORMS (CD ROM ONLY)

TF-18 Area Wells LNAPL Removal

DFSP Norwalk
15306 Norwalk Blvd
Norwalk, CA 90650

Day/Date: W 9-27-17

Completed By: Glenn Androsko
(Print Name)

TF-18 Area Wells

Xitech Station ID	Well ID	Status	Cycle Time (hr:min)	Cycles/Day	Total Run Time (hr:min)	Time (Before pumping)	Depth to LNAPL (ft btoc)	Depth to Water (ft btoc)	Measured LNAPL Thickness (ft)	Time (After pumping)	Depth to LNAPL (ft btoc)	Depth to Water (ft btoc)	Measured LNAPL Thickness (ft)	Change In LNAPL Thickness (ft)	NOTES
1	RTF-18E	Active	0:10	1	24:40	0948	31.84	33.52	1.68	1045	31.98	32.87	0.89	-0.79	Increased to 2x/day
2	RTF-18NW	Active	0:10	2	135:49	1000	31.62	32.89	1.27	1057	31.78	32.42	0.64	-0.63	
3	RTF-18N	Inactive			0	0951	31.49	33.02	1.53	1048	31.48	33.02	1.54	0.01	
4	TF-18	Active	0:10	1	45:19	0954	31.42	33.12	1.70	1051	31.60	32.32	0.72	-0.98	Increased to 2x/day
—	RTF-18NNW	Inactive				1006	32.48	32.53	0.05	1103	32.48	32.53	0.05	-0	
6	RTF-18W	Inactive				0957	31.98	33.49	1.51	1054	31.97	33.50	1.53	0.02	
5	TF-16	Active	0:20	2	44:41	1003	33.84	35.17	1.33	1100	34.13	34.86	0.73	-0.60	

Product Tank

Time	Depth to Product (ft)	Depth to Water (ft)	Measured LNAPL Thickness (ft)	Measured Water Thickness (ft)	Total Gallons of Water	Total Gallons of Product	Notes:
1014	3.67	3.97	0.30	0.09	36	120	

Comments:

4.02

MONITORING WELL GAUGING DATA
Second Semiannual 2017 Monitoring Event
Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Date Measured	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Notes
EXP-1	10/3/17		61.14		
EXP-2	10/2/17		62.07		
EXP-3	10/3/17		60.26		
GMW-5	10/2/17		--		bottom of well 28.32 (mud) bottom of well 28.32 (mud)
GMW-6	10/2/17		35.56		
GMW-7	10/3/17		35.56 35.13		
GMW-12	10/3/17		34.32		Casing needs to be cut down casing needs to be cut down
GMW-15	10/2/17		37.45		
GMW-16	10/2/17		36.05		
GMW-17R	10/3/17		36.77		
GMW-18	9/26/17	32.99	34.15 34.15		
GMW-19	10/3/17		35.17		
GMW-20	10/3/17		34.20		Do Not Sample.
GMW-21	10/2/17	32.52-33.02	34.20 34.20	.5 Product	product
GMW-31	10/3/17		33.18		
GMW-32R	10/3/17		--		dirt in well; bottom 28.20 dirt in well - bottom 28.20
GMW-33	10/3/17		--		dirt in well; 16.44 dirt in well 16.44
GMW-35R	10/3/17		38.07		
GMW-40	10/3/17		--		unable to locate unable to locate
GMW-41	10/3/17		--		needs piece of 4" pipe extension; mud in well needs piece of 4 in pipe extension
GMW-42	10/3/17		34.71		
GMW-43	10/3/17		--		mud in well mud in well
GMW-44	10/3/17		34.41		
GMW-45	10/2/17		34.57		
GMW-47	10/3/17		34.20		
GMW-48	10/3/17		36.53		
GMW-54	10/3/17		34.15		Do Not Sample.

mud in well

MONITORING WELL GAUGING DATA
Second Semiannual 2017 Monitoring Event
Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Date Measured	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Notes
GMW-56	10/2/17		33.32		
GMW-57	10/3/17		34.80		
GMW-58	10/3/17		34.22		
GMW-59	10/3/17		32.03		
GMW-60	10/3/17		34.21		
GMW-61	10/3/17		33.46		
GMW-62	10/2/17	34.21	34.22	.01 Sheen	sock in well, odor
GMW-63	10/2/17		34.81		
GMW-64	10/2/17		32.98		
GMW-65	10/2/17		34.51		
GMW-66R	10/3/17		37.34		
GMW-67	10/2/17		33.76		
GMW-68	10/2/17	33.28	33.30	.02	
GMW-69	10/2/17		32.99		
GW-1	10/2/17		34.92		Do Not Sample.
GW-2	10/2/17		34.53		
GW-3	10/2/17		34.66		unable to gauge; mud in well
GW-4	10/2/17		unable to gauge mud in well	well cap loose, pump in well unable to gauge; mud in well	Do Not Sample.
GW-5R	10/2/17		37.61		Do Not Sample.
GW-6	10/2/17		35.03		
GW-7	10/3/17		33.94		Do Not Sample.
GW-8	10/2/17		34.88		mud on probe
GW-13	10/2/17		34.17		
GW-14R	10/3/17	33.35	35.03	1.68	product
GW-15	10/3/17		33.58		
GW-16	10/3/17		34.57		
MW-13	10/3/17		36.48		

Dave

unable to gauge
mud in well

MONITORING WELL GAUGING DATA
Second Semiannual 2017 Monitoring Event
Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Date Measured	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Notes
MW-14	10/2/17		37.31		Do Not Sample.
MW-16	10/3/17		39.26		
MW-17	10/3/17		35.78		
MW-22-MID	10/2/17		40.16		
MW-24	10/2/17		36.24		
MW-26	10/2/17		36.13		
MW-27	10/2/17		37.61		
MW-28	10/3/17		35.18		Do Not Sample.
MW-29	10/3/17		37.64		
RTF-18-E	9/27/17		33.52		Do Not Sample.
RTF-18-N	9/27/17		33.02		Do Not Sample.
RTF-18-NNW	9/27/17		32.53		Do Not Sample.
RTF-18-NW	9/27/17		32.89		Do Not Sample.
RTF-18-W	9/27/17		33.49		Do Not Sample.
PZ-3	10/3/17		34.42		
TF-8	10/3/17		33.53		
TF-9R	10/3/17		37.05		
TF-15	10/3/17		--	sock in well	sock well
TF-16	9/27/17		33.17		
TF-17R	10/3/17		--	unable to find	unable to find
TF-18	9/27/17		33.12		
TF-19	10/3/17		32.73	sock in well	sock in well Do Not Sample.
TF-20R	10/3/17		33.41		
TF-21	10/3/17		36.13		
TF-23	10/3/17		--	unable to find	unable to find
TF-24	10/2/17		36.20		

Notes: Sample wells in **BOLD** text
feet btc = feet below top of well casing

MONITORING WELL GAUGING DATA
Second Semiannual 2017 Monitoring Event
Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Date Measured	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Notes
EXP-1	10-25-17	Ø	60.87	Ø	
EXP-2	10-25-17	Ø	61.94	Ø	
EXP-3	10-25-17	Ø	60.00	Ø	
GMW-63	10-25-17	Ø	34.93	Ø	
GMW-64	10-25-17	Ø	33.13	Ø	
GMW-65	10-25-17	Ø	34.78	Ø	
GMW-69	10-25-17	Ø	33.29	Ø	
GW-3	10-25-17	Ø	34.77	Ø	
MW-24	10-25-17	Ø	36.25	Ø	

Notes: Sample wells in **BOLD** text
feet btc = feet below top of well casing

MONITORING WELL INSPECTION CHECKLIST
Second Semiannual 2017 Monitoring Event
Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Date	Monument	Flush Mount	Access Unobstructed? (Y/N)	Well Easily Visible? (Y/N)	Vault, Well, or Casing Clearly Labeled? (Y/N)	Well Vault, Pad, or Casing Free of Visible Damage? (Y/N)	Well Secured With Water-Tight Cap and Lock? (Y/N)	Well Vault Dry and Free of Debris? (Y/N)	Comments, Corrective Actions Completed in the Field, Corrective Actions Recommended
EXP-1	10/31/17	✓		Y	Y	Y	Y	Y	Y	
EXP-2	10/2/17	✓		Y	Y	Y	Y	Y	Y	no lock ← no lock
EXP-3	10/3/17	✓		Y	Y	Y	Y	Y	Y	no lock ← no lock
GMW-5	10/2/17		✓	Y	Y	Y	Y	Y	Y	
GMW-6	10/2/17		✓	Y	Y	Y	Y	Y	Y	no lock ← no lock
GMW-7	10/3/17		✓	Y	Y	Y	Y	Y	Y	casing needs to be cut down
GMW-12	10/3/17		✓	Y	Y	Y	Y	N	Y	casing needs to be cut down
GMW-15	10/2/17		✓	Y	Y	Y	Y	Y	Y	needs new well seal
GMW-16	10/2/17		✓	Y	N	Y	N	Y	Y	needs new well seal
GMW-17R	10/3/17	✓		Y	Y	Y	Y	Y	Y	no lock ← no lock
GMW-18	10/3/17		✓	Y	Y	Y	Y	N	Y	skimmer in well
GMW-19	10/3/17		✓	Y	Y	Y	Y	Y	Y	
GMW-20	10/3/17		✓	Y	Y	Y	Y	Y	Y	
GMW-21	10/2/17		✓	Y	Y	Y	Y	Y	Y	no lock ← no lock
GMW-31	10/3/17		✓	Y	Y	Y	Y	Y	Y	
GMW-32R	10/3/17	✓		Y	Y	Y	Y	Y	Y	no lock ← no lock
GMW-33	10/3/17		✓	Y	Y	Y	Y	Y	Y	
GMW-35R	10/3/17	✓		Y	Y	Y	Y	Y	Y	
GMW-40	10/3/17									could not locate needs 4" pipe extension
GMW-41	10/3/17		✓	Y	Y	Y	Y	Y	Y	needs 4 inch pipe extension
GMW-42	10/3/17		✓	Y	Y	Y	Y	Y	Y	ZI; mud prevents accurate reading
GMW-43	10/3/17		✓	Y	Y	Y	Y	Y	Y	ZI; mud prevents accurate reading
GMW-44	10/3/17		✓	Y	Y	Y	Y	Y	Y	
GMW-45	10/2/17		✓	Y	Y	Y	Y	Y	Y	
GMW-47	10/3/17		✓	Y	Y	Y	Y	Y	Y	
GMW-48	10/3/17	✓		Y	Y	Y	Y	Y	Y	no lock ← no lock
GMW-54	10/3/17		✓	Y	Y	Y	Y	Y	Y	

MONITORING WELL INSPECTION CHECKLIST
Second Semiannual 2017 Monitoring Event
Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Date	Monument	Flush Mount	Access Unobstructed? (Y/N)	Well Easily Visible? (Y/N)	Vault, Well, or Casing Clearly Labeled? (Y/N)	Well Vault, Pad, or Casing Free of Visible Damage? (Y/N)	Well Secured With Water-Tight Cap and Lock? (Y/N)	Well Vault Dry and Free of Debris? (Y/N)	Comments, Corrective Actions Completed in the Field, Corrective Actions Recommended
GMW-56	10/2/17		✓	Y	Y	Y	Y	Y	Y	
GMW-57	10/3/17		✓	Y	Y	Y	Y	Y	Y	
GMW-58	10/3/17		✓	Y	Y	Y	Y	Y	Y	no lock, missing bolts
GMW-59	10/3/17		✓	Y	Y	Y	Y	Y	Y	
GMW-60	10/3/17		✓	Y	Y	Y	Y	Y	Y	no lock, missing bolts
GMW-61	10/3/17		✓	Y	Y	Y	Y	Y	Y	
GMW-62										
GMW-63										
GMW-64										
GMW-65										
GMW-66R	10/3/17	✓		Y	Y	Y	Y	Y	Y	
GMW-67										
GMW-68										
GMW-69										
GW-1	10/2/17		✓	Y	Y	Y	Y	N	Y	pumping well, no sock
GW-2	10/2/17		✓	Y	Y	Y	Y	Y	Y	pumping well, no lock
GW-3	10/2/17		✓	Y	Y	Y	Y	Y	Y	no lock
GW-4	10/2/17		✓	Y	Y	Y	Y	N	N	loose well seal, mud in well, no lock
GW-5R	10/2/17	✓	2	Y	Y	Y	Y	Y	Y	no lock
GW-6	10/2/17		✓	Y	Y	Y	Y	Y	Y	
GW-7	10/3/17		✓	Y	Y	Y	Y	N	Y	
GW-8	10/2/17			N	N	Y	Y	Y	Y	weeds, no surface completion
GW-13	10/2/17		✓	Y	Y	Y	Y	N	Y	pumping well
GW-14R	10/3/17		✓	Y	Y	Y	Y	Y	N	needs well cap, product
GW-15	10/3/17		✓	Y	Y	Y	Y	Y	Y	needs well cap, product
GW-16	10/3/17		✓	Y	Y	Y	Y	Y	Y	
MW-13	10/3/17	✓		Y	Y	Y	Y	Y	Y	no lock

Done

Done

oche

MONITORING WELL INSPECTION CHECKLIST
Second Semiannual 2017 Monitoring Event
Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Date	Monument	Flush Mount	Access Unobstructed? (Y/N)	Well Easily Visible? (Y/N)	Vault, Well, or Casing Clearly Labeled? (Y/N)	Well Vault, Pad, or Casing Free of Visible Damage? (Y/N)	Well Secured With Water-Tight Cap and Lock? (Y/N)	Well Vault Dry and Free of Debris? (Y/N)	Comments, Corrective Actions Completed in the Field, Corrective Actions Recommended
MW-14	10/2/17	✓		Y	Y	Y	Y	Y	Y	no lock
MW-16	10/3/17	✓		Y	Y	Y	Y	Y	Y	
MW-17	10/3/17	✓		Y	Y	Y	Y	Y	Y	no lock
MW-22-MID	10/2/17	✓		Y	Y	Y	Y	Y	Y	no lock, damaged monument
MW-24	10/2/17	✓		Y	Y	Y	Y	Y	Y	no lock
MW-26	10/2/17	✓		Y	Y	Y	Y	Y	Y	no lock
MW-27	10/2/17	✓		N	Y	Y	N	N	Y	weeds, unstable terrain, damaged well seal
MW-28	10/3/17		✓	Y	Y	Y	Y	Y	Y	
MW-29	10/3/17	✓		Y	Y	Y	Y	Y	Y	no lock
PZ-3	10/3/17		✓	Y	Y	Y	Y	Y	Y	no lock
RTF-18-E	9-27-17		✓	Y	Y	Y	Y	Y	Y	skimmer in well
RTF-18-N			✓	Y	Y	Y	Y	Y	Y	
RTF-18-NNW			✓	Y	Y	Y	Y	Y	Y	skimmer in well GA 10/3
RTF-18-NW			✓	Y	Y	Y	Y	Y	Y	skimmer in well
RTF-18-W			✓	Y	Y	Y	Y	Y	Y	
TF-8	10/3/17		✓	Y	Y	Y	Y	Y	Y	
TF-9R	10/3/17	✓		Y	Y	Y	Y	Y	Y	no lock
TF-15	10/3/17		✓	-	-	-	-	-	-	sock well
TF-16	9-27-17		✓	Y	Y	Y	Y	Y	Y	skimmer in well
TF-17R	10/3/17			-	-	-	-	-	-	unable to find
TF-18	9-27-17		✓	Y	Y	Y	Y	Y	Y	skimmer in well
TF-19	10/3/17		✓	Y	Y	Y	Y	Y	Y	sock in well
TF-20R	10/3/17		✓	Y	Y	Y	Y	Y	Y	no lock
TF-21	10/3/17	✓		Y	Y	Y	Y	Y	Y	no lock
TF-23	10/3/17			-	-	-	-	-	-	unable to find
TF-24	10/2/17		✓	Y	Y	Y	Y	Y	Y	

well seal

MONITORING WELL INSPECTION CHECKLIST
Second Semiannual 2017 Monitoring Event
Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Date	Monument	Flush Mount	Access Unobstructed? (Y/N)	Well Easily Visible? (Y/N)	Vault, Well, or Casing Clearly Labeled? (Y/N)	Well Vault, Pad, or Casing Free of Visible Damage? (Y/N)	Well Secured With Water-Tight Cap and Lock? (Y/N)	Well Vault Dry and Free of Debris? (Y/N)	Comments, Corrective Actions Completed in the Field, Corrective Actions Recommended
GMW-56										
GMW-57										
GMW-58										
GMW-59										
GMW-60										
GMW-61										
GMW-62	10-2-17		X	Y	Y	Y	Y	Y	Y	
GMW-63	10-2-17		X	Y	Y	Y	Y	Y	N	
GMW-64	10-2-17		X	Y	Y	Y	Y	Y	N	
GMW-65	10-2-17		X	Y	Y	Y	Y	Y	Y	
GMW-66R	10-2-17 10-2-17									
GMW-67	10-2-17		X	Y	Y	Y	Y	Y	Y	
GMW-68	10-2-17		X	Y	Y	Y	Y	Y	Y	
GMW-69	10-2-17		X	Y	Y	Y	Y	Y	Y	
GW-1										
GW-2										
GW-3	10-3-17		X	Y	Y	Y	Y	Y	Y	
GW-4										
GW-5R										
GW-6										
GW-7										
GW-8										
GW-13										
GW-14R										
GW-15										
GW-16										
MW-13										

MONITORING WELL INSPECTION CHECKLIST
Second Semiannual 2017 Monitoring Event
Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Date	Monument	Flush Mount	Access Unobstructed? (Y/N)	Well Easily Visible? (Y/N)	Vault, Well, or Casing Clearly Labeled? (Y/N)	Well Vault, Pad, or Casing Free of Visible Damage? (Y/N)	Well Secured With Water-Tight Cap and Lock? (Y/N)	Well Vault Dry and Free of Debris? (Y/N)	Comments, Corrective Actions Completed in the Field, Corrective Actions Recommended
MW-14										
MW-16										
MW-17										
MW-22-MID										
MW-24	10-2-17	X		Y	Y	Y	Y	no	Y	cap
MW-26										
MW-27										
MW-28										
MW-29										
PZ-3										
RTF-18-E										
RTF-18-N										
RTF-18-NNW										
RTF-18-NW										
RTF-18-W										
TF-8										
TF-9R										
TF-15										
TF-16										
TF-17R										
TF-18										
TF-19										
TF-20R										
TF-21										
TF-23										
TF-24										

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address: 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: EXP-1
 Well Diameter: 4"
 Date: 10-4-17

$128.50 - 61.14 = 67.36$
 TD DTW Water Column

82-122
 SCR-INT

Pump Intake Depth, Screened Above Water Table:
 $61.14 + 1/2(83.68) = 94.82$
 DTW Water Column Pump Intake Depth

<OR>

Pump Intake Depth, Submerged Screen:
 $82' + 1/2(127' - 82') = 102'$
 Top of Screen Depth Screen Length Pump Intake Depth

HALFWAY SCREEN INT

Date Purged: 10-4-17 Start (24 Hour) 11¹⁰ End (24 Hour) 11³⁰
 Date Sampled: 10-4-17 Start (24 Hour) 11³⁰ End (24 Hour) _____

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/°C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
11 ¹²	.25	NT	7.27	987.0	-241.5	23.2	0.15	clear	1.2
11 ¹⁴	.50	61.18	7.27	987.0	-241.8	23.2	0.15	"	1.1
11 ¹⁶	.25	61.20	7.27	987.0	-242.4	23.2	0.15	"	NT
11 ¹⁸	1.0	NT	7.27	987.0	-243.0	23.2	0.15	"	NT
11 ²⁰	1.25	NT	7.27	987.0	-243.4	23.2	0.15	"	0.8
11 ²²	1.50	61.23	7.27	987.0	-243.8	23.2	0.15	"	0.9
11 ²⁴	1.75	61.24	7.26	987.0	-244.1	23.2	0.15	"	1.1
11 ²⁶	2.0	61.24	7.26	988.0	-244.3	23.2	0.15	"	1.3
11 ²⁸	2.25	NT	7.26	988.0	-244.7	23.2	0.14	"	1.1
11 ³⁰	2.5	61.25	7.26	988.0	-244.9	23.2	0.14	"	1.0

PURGING EQUIPMENT			SAMPLING EQUIPMENT		
<input type="checkbox"/>	Centrifugal Pump	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	Teflon Bailor
<input type="checkbox"/>	Submersible Pump	Disposable Pump	<input type="checkbox"/>	Submersible Pump	Disposable Bailor
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump		<input checked="" type="checkbox"/>	Other: Dedicated Tubing	

Remarks: split sample obtained for Blawie
DWP-3 obtain here

Completed By (Print Name): Dave Lubben Signature: [Signature]
 Reviewed By: PS Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5

Well ID: EXP-1

Client/Station: Defense Fuel Support Point Norwalk

82-122
SCR-FMT

Well Diameter: 4"

Address: 15306 Norwalk Boulevard
Norwalk, California 90650

Date: 10-25-17

$$\frac{122.00}{TD} - \frac{60.87}{DTW} = \frac{61.13}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table:

< OR >

Pump Intake Depth, Submerged Screen:

$$\frac{60.87}{DTW} + 1/2 \left(\frac{30.57}{\text{Water Column}} \right) = \frac{91.44}{\text{Pump Intake Depth}}$$

$$\frac{82'}{\text{Top of Screen Depth}} + 1/2 \left(\frac{20'}{\text{Screen Length}} \right) = \frac{102'}{\text{Pump Intake Depth}}$$

Date Purged: 10-25-17 Start (24 Hour) 2¹⁵ End (24 Hour) 2³⁵
Date Sampled: 10-25-17 Start (24 Hour) 2³⁵ End (24 Hour) _____

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/°C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
217	1.25	NT	7.29	993.0	-247.3	23.3	0.17	clear	1.9
219	1.50	60.90	7.29	993.0	-247.9	23.3	0.17	"	2.1
221	1.25	60.92	7.29	993.0	-248.5	23.3	0.16	"	NT
223	1.0	NT	7.29	994.0	-249.0	23.3	0.16	"	NT
225	1.25	NT	7.28	994.0	-249.4	23.3	0.16	"	1.9
227	1.50	60.95	7.28	994.0	-249.6	23.4	0.16	"	1.7
229	1.75	60.95	7.28	995.0	-249.9	23.4	0.16	"	1.3
231	2.0	60.96	7.28	995.0	-250.1	23.4	0.15	"	1.4
233	2.25	NT	7.28	995.0	-250.3	23.4	0.15	"	NT
235	2.50	60.96	7.28	995.0	-250.6	23.4	0.15	"	1.3
 									
 									
 									

PURGING EQUIPMENT				SAMPLING EQUIPMENT			
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailer
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailer
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump			<input checked="" type="checkbox"/>	Other: Dedicated Tubing		

Remarks:

Completed By (Print Name): Dave Lubben ✓

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project # : 091-NDLA-018/Task 5

Well ID: Exp-2

Client/Station: Defense Fuel Support Point Norwalk

Well Diameter: 4"

Address : 15306 Norwalk Boulevard
Norwalk, California 90650

SCR-INT
90-120

Date: 10-2-17

$$\frac{149.00}{TD} - \frac{62.04}{DTW} = \frac{86.96}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table: < OR >

$$\frac{62.04}{DTW} + 1/2 \left(\frac{43.48}{\text{Water Column}} \right) = \frac{105.52}{\text{Pump Intake Depth}}$$

Pump Intake Depth, Submerged Screen:

$$\frac{\text{---}}{\text{Top of Screen Depth}} + 1/2 \left(\frac{\text{---}}{\text{Screen Length}} \right) = \frac{105}{\text{Pump Intake Depth}}$$

Date Purged: 10-2-17 Start (24 Hour) 2:00pm End (24 Hour) 2:21p

Date Sampled: 10-2-17 Start (24 Hour) 2:20 End (24 Hour) ---

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
203	.25	62.06	7.24	1377	-193.0	22.8	0.26	clear	2.6
205	.50	62.09	7.24	1377	-195.4	22.8	0.26	"	2.1
207	.75	62.11	7.24	1377	-197.1	22.8	0.25	"	2.3
209	1.0	NT	7.24	1377	-200.0	22.7	0.25	"	2.2
211	1.25	NT	7.23	1377	-202.6	22.7	0.24	"	2.3
213	1.50	62.15	7.23	1377	-203.9	22.7	0.24	"	2.7
215	1.75	62.16	7.23	1377	-204.3	22.7	0.23	"	NT
217	2.0	NT	7.22	1377	-204.7	22.6	0.22	"	NT
219	2.25	62.16	7.22	1377	-205.2	22.6	0.22	"	2.6
221	2.50	62.15	7.22	1377	-205.7	22.6	0.22	"	2.7
 									
 									
 									

PURGING EQUIPMENT			SAMPLING EQUIPMENT				
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailer
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailer
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump		<input type="checkbox"/>	Other: Dedicated Tubing			

Remarks: obtain split sample for Blaine tech

Completed By (Print Name): Dave Lubben

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address: 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: EXP-2
 Well Diameter: 4"
 Date: 10-25-17

90-120

$$\frac{120.00}{\text{TD}} - \frac{61.94}{\text{DTW}} = \frac{58.06}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table:

$$\frac{61.94}{\text{DTW}} + \frac{1}{2} \left(\frac{24.03}{\text{Water Column}} \right) = \frac{90.97}{\text{Pump Intake Depth}}$$

< OR >

Pump Intake Depth, Submerged Screen:

$$\frac{90'}{\text{Top of Screen Depth}} + \frac{1}{2} \left(\frac{15'}{\text{Screen Length}} \right) = \frac{105'}{\text{Pump Intake Depth}}$$

Date Purged: 10-25-17 Start (24 Hour) 17:50 End (24 Hour) 12:10
 Date Sampled: 10-25-17 Start (24 Hour) 12:10 End (24 Hour) _____

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/°C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)	
11:52	.25	NT	7.30	1659	-48.0	23.3	0.46	clear	30.2	NTU
11:54	.50	NT	7.28	1655	-35.1	22.7	0.35	"	3.2	NT
11:56	.75	61.95	7.28	1653	-30.1	22.6	0.26	"	6.0	SA
11:58	1.0	61.96	7.27	1651	-32.1	22.6	0.24	"	5.8	8.8
12 ⁻	1.25	NT	7.27	1650	-38.0	22.1	0.15	"	8.8	
12:02	1.50	NT	7.26	1649	-39.9	22.1	0.13	"	21.0	
12:04	1.75	61.96	7.26	1652	-38.0	22.1	0.13	"	16.1	
12:06	2.0	61.96	7.26	1653	-36.9	22.1	0.13	"	12.1	
12:08	2.25	NT	7.26	1654	-36.5	22.2	0.13	"	8.9	
12:10	2.50	61.96	7.26	1655	-36.1	22.2	6.12	"	8.1	
 										
 										
 										

PURGING EQUIPMENT				SAMPLING EQUIPMENT			
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailor
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailor
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump			<input checked="" type="checkbox"/>	Other: Dedicated Tubing		

Remarks:

Completed By (Print Name): Dave Lubben

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address: 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: EXP-3
 Well Diameter: 4"
 Date: 10-4-17

150.00 - 60.26 = 89.74
TD DTW Water Column

85-115
SCR-INT

Pump Intake Depth, Screened Above Water Table: < OR >
60.25 + 1/2(44.87) = 105.12
DTW Water Column Pump Intake Depth

Pump Intake Depth, Submerged Screen:
 — + 1/2(—) = 100'
Top of Screen Depth Screen Length Pump Intake Depth

Date Purged: 10-4-17 Start (24 Hour) 11⁵⁰A End (24 Hour) 12¹²
 Date Sampled: 10-4-17 Start (24 Hour) 12¹⁰P End (24 Hour) —

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
11 ⁵²	.25	60.29	7.25	793.0	-177.5	22.9	0.19	clear	1.3
11 ⁵⁴	.50	60.31	7.25	793.0	-178.9	22.9	0.19	"	1.3
11 ⁵⁶	.75	60.32	7.24	793.0	-181.0	22.8	0.19	"	1.2
11 ⁵⁸	1.0	NT	7.24	793.0	-181.5	22.8	0.19	"	NT
12 ⁰⁰	1.25	NT	7.24	793.0	-182.2	22.8	0.19	"	NT
12 ⁰²	1.50	60.35	7.24	793.0	-182.9	22.8	0.19	"	1.0
12 ⁰⁴	1.75	60.36	7.23	793.0	-183.5	22.9	0.19	"	1.1
12 ⁰⁶	2.0	NT	7.23	793.0	-184.0	22.9	0.19	"	1.1
12 ⁰⁸	2.25	60.38	7.23	793.0	-184.4	22.9	0.18	"	1.0
12 ¹⁰	2.50	60.38	7.23	793.0	-184.9	22.9	0.18	"	1.2

PURGING EQUIPMENT			SAMPLING EQUIPMENT		
<input type="checkbox"/>	Centrifugal Pump	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	Teflon Bailor
<input type="checkbox"/>	Submersible Pump	Disposable Pump	<input type="checkbox"/>	Submersible Pump	Disposable Bailor
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump		<input checked="" type="checkbox"/>	Other: Dedicated Tubing	

Remarks: Split w/ Blarntech

Completed By (Print Name): Dave Lubben
 Reviewed By: DS

Signature: [Signature]
 Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5

Well ID: EXP-3

Client/Station: Defense Fuel Support Point Norwalk

85115

Well Diameter: 4"

Address: 15306 Norwalk Boulevard
Norwalk, California 90650

Date: 10-25-17

$$\frac{115.00}{TD} - \frac{60.00}{DTW} = \frac{55.00}{Water\ Column}$$

Pump Intake Depth, Screened Above Water Table:

$$\frac{60.00}{DTW} + \frac{1}{2}(\frac{27.50}{Water\ Column}) = \frac{87.50}{Pump\ Intake\ Depth}$$

< OR >

Pump Intake Depth, Submerged Screen:

$$\frac{85'}{Top\ of\ Screen\ Depth} + \frac{1}{2}(\frac{15'}{Screen\ Length}) = \frac{100'}{Pump\ Intake\ Depth}$$

Date Purged: 10-25-17 Start (24 Hour) 135 End (24 Hour) 155
Date Sampled: 10-25-17 Start (24 Hour) 155 End (24 Hour) _____

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (SM/cm)	ORP (mV)	TEMPERATURE (°F/°C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
137	25	NT	7.33	1241	-40.7	24.3	0.96	clear	21.1
139	50	60.04	7.33	1234	-33.3	24.0	0.81	"	34.0
141	25	60.05	7.33	1229	-25.3	23.5	0.73	"	42.1
143	1.0	NT	7.32	1226	-19.5	22.5	0.37	"	65.0
145	125	NT	7.32	1224	-20.5	22.5	0.28	"	62.0
147	1.50	NT	7.32	1228	-19.7	23.1	0.26	"	62.0
149	1.25	NT	7.32	1231	-20.2	23.3	0.27	"	65.0
151	2.00	NT	7.32	1237	-10.2	23.0	0.28	"	61.3
153	2.25	60.04	7.32	1240	-10.5	23.1	0.27	"	59.3
155	2.50	60.04	7.32	1242	-10.4	23.0	0.26	"	59.8

PURGING EQUIPMENT			SAMPLING EQUIPMENT		
<input type="checkbox"/>	Centrifugal Pump		<input type="checkbox"/>	Centrifugal Pump	Teflon Bailor
<input type="checkbox"/>	Submersible Pump		<input type="checkbox"/>	Submersible Pump	Disposable Bailor
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump		<input checked="" type="checkbox"/>	Other: Dedicated Tubing	

Remarks:

Completed By (Print Name): Dave Lubben

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address: 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: GMW-5
 Well Diameter: 4"
 Date: 10-3-17

20-50

50.00 - 34.72 = 15.28
 TD DTW Water Column

Pump Intake Depth, Screened Above Water Table: $\leq OR \geq$ **Pump Intake Depth, Submerged Screen:**

DTW + 1/2(Water Column) = Pump Intake Depth
 Top of Screen Depth + 1/2(Screen Length) = Pump Intake Depth

Date Purged: 10-3-17 Start (24 Hour) 7:05 AM End (24 Hour) 7:05 AM
 Date Sampled: 10-3-17 Start (24 Hour) 7:05 AM End (24 Hour) _____

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
10:47	.25								
10:49	.50								
10:51	.75								
10:53	1.0								
10:55	1.25								
10:57	1.50								
10:59	1.75								
11:01	2.0								
11:03	2.25								
11:05	2.50								

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump	<input checked="" type="checkbox"/>	Other: Dedicated Tubing

Remarks: Could not access water - soil build up @ 28". Hole for reading but pump won't fit. Stringer hole

Completed By (Print Name): Dave Lubben Signature: [Signature]
 Reviewed By: DS Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address: 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: GMW-6
 Well Diameter: 4"
 Date: 10-3-17

*25.0-50.0
SCREEN*

$$\frac{0.00}{TD} - \frac{35.55}{DTW} = \frac{14.45}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table:

$$\frac{35.55}{DTW} + 1/2 \left(\frac{7.23}{\text{Water Column}} \right) = \frac{42.78}{\text{Pump Intake Depth}}$$

Pump Intake Depth, Submerged Screen:

$$\frac{\text{Top of Screen Depth}}{+1/2 \left(\frac{\text{Screen Length}}{\text{Pump Intake Depth}} \right)} = \frac{42.43}{\text{Pump Intake Depth}}$$

Date Purged: 10-3-17 Start (24 Hour) 12^N End (24 Hour) 12²⁰
 Date Sampled: 10-3-17 Start (24 Hour) 12²⁰ End (24 Hour) _____

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
12 ⁰²	.25	NT	6.98	1133	57.2	23.5	0.27	clear	2.1
12 ⁰⁴	.50	35.63	6.98	1133	56.7	23.5	0.27	"	2.2
12 ⁰⁶	.75	35.63 35.67	6.98	1134	56.5	23.5	0.27	"	NT
12 ⁰⁸	1.0	35.68	6.98	1134	56.2	23.5	0.26	"	NT
12 ¹⁰	1.25	NT	6.97	1134	55.6	23.6	0.26	"	2.1
12 ¹²	1.50	NT	6.97	1134	54.9	23.6	0.26	"	2.3
12 ¹⁴	1.75	35.71	6.97	1135	54.5	23.6	0.25	"	NT
12 ¹⁶	2.0	35.73	6.98	1137	54.2	23.6	0.25	"	1.9
12 ¹⁸	2.25	35.71	6.98	1138	53.8	23.6	0.24	"	1.7
12 ²⁰	2.50	35.73	6.98	1139	53.5	23.7	0.25	"	2.0

PURGING EQUIPMENT			SAMPLING EQUIPMENT				
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailer
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailer
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump		<input type="checkbox"/>	Other: Dedicated Tubing			

Remarks: DUP-2 obtained here

Completed By (Print Name): Dave Lubben

Signature: [Signature]

Reviewed By: DS

Date: 10/29/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address: 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: Gmw-7
 Well Diameter: 4"
 Date: 10-10-17

20-SD
SCR-INP

$$\frac{50.00}{\text{TD}} - \frac{35.13}{\text{DTW}} = \frac{14.87}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table:

$$\frac{35.13}{\text{DTW}} + 1/2 \left(\frac{7.44}{\text{Water Column}} \right) = \frac{42.57}{\text{Pump Intake Depth}}$$

Pump Intake Depth, Submerged Screen:

$$\frac{\text{---}}{\text{Top of Screen Depth}} + 1/2 \left(\frac{\text{---}}{\text{Screen Length}} \right) = \frac{42.43'}{\text{Pump Intake Depth}}$$

Date Purged: 10-10-17 Start (24 Hour) 10⁰⁰ End (24 Hour) 10³⁰
 Date Sampled: 10-10-17 Start (24 Hour) 10³⁰ End (24 Hour) ---

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
10 ¹²	.25	35.16	6.69	1335	-141.6	25.5	0.28	clear	35.1
10 ¹⁴	.50	35.20	6.69	1335	-142.3	25.5	0.28	"	33.3
10 ¹⁶	.75	NT	6.68	1338	-142.9	25.6	0.27	"	31.4
10 ¹⁸	1.0	NT	6.68	1339	-143.4	25.6	0.26	"	NT
10 ²⁰	1.25	35.23	6.68	1341	-143.7	25.6	0.26	"	NT
10 ²²	1.50	35.24	6.67	1343	-144.0	25.6	0.25	"	27.3
10 ²⁴	1.75	35.25	6.67	1344	-144.1	25.7	0.25	"	27.1
10 ²⁶	2.0	NT	6.67	1344	-144.1	25.7	0.25	"	NT
10 ²⁸	2.25	35.26	6.67	1345	-144.3	25.7	0.25	"	26.8
10 ³⁰	2.50	35.26	6.67	1345	-144.5	25.7	0.24	"	26.5

PURGING EQUIPMENT			SAMPLING EQUIPMENT				
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailer
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailer
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump		<input type="checkbox"/>	Other: Dedicated Tubing			

Remarks:

Completed By (Print Name): Dave Lubben

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address: 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: Gmw-12
 Well Diameter: 4"
 Date: 10-4-17

50.00 - 34.32 = 15.68
TD DTW Water Column

Pump Intake Depth, Screened Above Water Table: **< OR >** **Pump Intake Depth, Submerged Screen:**
34.32 + 1/2(7.84) = 42.16
DTW Water Column Pump Intake Depth Top of Screen Depth Screen Length Pump Intake Depth

Date Purged: 10-4-17 Start (24 Hour) 1240 End (24 Hour) 19P
 Date Sampled: 10-4-17 Start (24 Hour) 100 pm End (24 Hour) —

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
1243	1.25	NT	7.05	1300	-120.2	26.9	0.72	light grey	67.4
1245	.50	34.35	7.00	1290	-114.4	26.0	0.57	"	59.1
1247	.75	34.37	6.93	1294	-113.3	26.0	0.53	"	58.6
1249	1.0	NT	6.90	1299	-115.3	26.0	0.50	"	71.3
1251	1.25	NT	6.88	1313	-117.9	26.0	0.46	"	65.4
1253	1.50	34.41	6.86	1330	-124.1	26.0	0.43	"	70.4
1255	1.75	34.43	6.84	1330	-125.3	26.1	0.40	"	63.2
1257	2.0	NT	6.83	1335	-125.9	26.1	0.38	"	59.9
1259	2.25	34.46	6.83	1332	-126.5	26.1	0.37	"	55.1
101	2.50	34.46	6.82	1336	-126.8	26.1	0.36	"	53.6

PURGING EQUIPMENT			SAMPLING EQUIPMENT				
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailor
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailor
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump		<input type="checkbox"/>	Other: Dedicated Tubing		<input type="checkbox"/>	

Remarks: _____

Completed By (Print Name): Dave Lubben

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address: 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: GMW-15
 Well Diameter: 4"
 Date: 10-5-17

25-50
SR-TMT

$$\begin{array}{rcc} 50.00 & - & 34.45 & = & 15.55 \\ \text{TD} & & \text{DTW} & & \text{Water Column} \end{array}$$

Pump Intake Depth, Screened Above Water Table:

$$\begin{array}{rcc} 34.45 & + & 1/2(7.78) & = & 42.23 \\ \text{DTW} & & \text{Water Column} & & \text{Pump Intake Depth} \end{array}$$

Pump Intake Depth, Submerged Screen:

$$\begin{array}{rcc} & + & 1/2(&) & = & 42-43 \\ \text{Top of Screen Depth} & & \text{Screen Length} & & \text{Pump Intake Depth} \end{array}$$

Date Purged: 10-5-17 Start (24 Hour) 1145 End (24 Hour) 1205
 Date Sampled: 10-5-17 Start (24 Hour) 1205 End (24 Hour)

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
1147	0.25	NT	6.88	1129	-81.0	25.3	0.31	clear	NT
1149	0.50	34.51	6.85	1129	-80.3	25.5	0.30	"	10.1
1151	0.75	34.53	6.82	1129	-81.2	25.6	0.28	"	10.3
1153	1.0	NT	6.80	1129	-81.9	25.6	0.27	"	10.0
1155	1.25	NT	6.79	1129	-82.3	25.6	0.27	"	8.6
1157	1.50	34.57	6.78	1129	-83.6	25.6	0.26	"	8.9
1159	1.75	34.58	6.78	1129	-84.7	25.6	0.26	"	8.2
1201	2.0	NT	6.77	1130	-85.4	25.6	0.25	"	8.3
1203	2.25	34.60	6.77	1130	-85.8	25.6	0.25	"	NT
1205	2.50	34.60	6.77	1130	-85.1	25.7	0.24	"	8.0

PURGING EQUIPMENT			SAMPLING EQUIPMENT		
<input type="checkbox"/>	Centrifugal Pump		<input type="checkbox"/>	Vac Truck	
<input type="checkbox"/>	Submersible Pump		<input type="checkbox"/>	Disposable Pump	
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump		<input checked="" type="checkbox"/>	Other: Dedicated Tubing	

Remarks:

Completed By (Print Name): Dave Lubben ✓

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project # : 091-NDLA-018/Task 5

Well ID: GMW-16

Client/Station: Defense Fuel Support Point Norwalk

Well Diameter: 4"

Address : 15306 Norwalk Boulevard
Norwalk, California 90650

Date: 10-5-17

25.50
SRFMT

$$\frac{50.00}{TD} - \frac{36.05}{DTW} = \frac{13.95}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table: **< OR >** **Pump Intake Depth, Submerged Screen:**

$$\frac{36.05}{DTW} + 1/2 \left(\frac{6.98}{\text{Water Column}} \right) = \frac{43.03}{\text{Pump Intake Depth}}$$

$$\frac{\text{---}}{\text{Top of Screen Depth}} + 1/2 \left(\frac{\text{---}}{\text{Screen Length}} \right) = \frac{43.44'}{\text{Pump Intake Depth}}$$

Date Purged: 10-5-17 Start (24 Hour) 9:15 AM End (24 Hour) 9:35

Date Sampled: 10-5-17 Start (24 Hour) 9:15 End (24 Hour) ---

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
917	.25	36.07	7.33	960.0	1.1	22.8	0.29	clear	53.3
919	.50	36.09	7.33	960.0	4.4	22.8	0.29	"	49.6
921	.75	NT	7.33	960.0	5.6	22.8	0.29	"	45.3
923	1.0	NT	7.32	959.0	6.9	22.8	0.29	"	NT
925	1.25	36.13	7.32	959.0	7.2	22.8	0.29	"	NT
927	1.50	36.15	7.32	959.0	7.7	22.8	0.28	"	33.99
929	1.75	NT	7.32	958.0	8.4	22.9	0.28	"	32.1
931	2.0	NT	7.32	958.0	8.9	22.9	0.28	"	NT
933	2.25	36.20	7.32	958.0	9.3	22.9	0.27	"	25.1
935	2.50	36.20	7.32	958.0	9.6	22.9	0.27	"	23.2

PURGING EQUIPMENT			SAMPLING EQUIPMENT				
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailor
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailor
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump		<input type="checkbox"/>	Other: Dedicated Tubing			

Remarks:

Completed By (Print Name): Dave Lubben

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address: 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: Gmw-17R
 Well Diameter: 4"
 Date: 10-9-17

$$\frac{50.00}{\text{TD}} - \frac{36.77}{\text{DTW}} = \frac{13.23}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table:

$$\frac{36.77}{\text{DTW}} + 1/2 \left(\frac{6.62}{\text{Water Column}} \right) = \frac{43.39}{\text{Pump Intake Depth}}$$

Pump Intake Depth, Submerged Screen:

$$\frac{\text{---}}{\text{Top of Screen Depth}} + 1/2 \left(\frac{\text{---}}{\text{Screen Length}} \right) = \frac{43.44}{\text{Pump Intake Depth}}$$

Date Purged: 10-9-17 Start (24 Hour) 9:00 Am End (24 Hour) 9:22
 Date Sampled: 10-9-17 Start (24 Hour) 9:20 End (24 Hour) ---

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/°C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
903	.25	36.80	6.76	1556	-148.1	23.6	0.51	cloudy clear	142.0
905	.50	36.83	6.76	1556	-148.8	23.6	0.48	semi clear	131.3
907	.75	36.85	6.76	1557	-149.8	23.6	0.46	"	96.3
910	1.0	NT	6.76	1558	-150.6	23.6	0.43	"	111.3
912	1.25	NT	6.75	1558	-151.5	23.7	0.40	clear	NT
914	1.5	36.88	6.75	1559	-152.3	23.7	0.38	clear	NT
916	1.75	36.88	6.75	1561	-153.1	23.7	0.36	"	92.6
918	2.0	NT	6.75	1562	-153.7	23.7	0.35	"	88.9
920	2.25	36.89	6.75	1562	-153.2	23.7	0.35	"	81.3
922	2.5	36.90	6.75	1562	-153.6	23.7	0.33	clear	83.6
				1562	DL				

PURGING EQUIPMENT				SAMPLING EQUIPMENT			
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailor
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailor
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump			<input checked="" type="checkbox"/>	Other: Dedicated Tubing		

Remarks:

Completed By (Print Name): Dave Lubben

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5

Well ID: GMW-19

Client/Station: Defense Fuel Support Point Norwalk

Well Diameter: 4"

Address: 15306 Norwalk Boulevard
Norwalk, California 90650

Date: 10-3-17

*25-50
SCREEN INT*

$$\frac{50.00}{\text{TD}} - \frac{35.14}{\text{DTW}} = \frac{14.86}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table:

$$\frac{35.14}{\text{DTW}} + 1/2 \left(\frac{7.43}{\text{Water Column}} \right) = \frac{42.57}{\text{Pump Intake Depth}}$$

<OR>

Pump Intake Depth, Submerged Screen:

$$\frac{\text{Top of Screen Depth}}{\text{Screen Length}} + 1/2 \left(\frac{\text{Pump Intake Depth}}{\text{Screen Length}} \right) = \frac{42.43}{\text{Pump Intake Depth}}$$

Date Purged: 10-3-17 Start (24 Hour) 10¹⁰ End (24 Hour) 10³⁰

Date Sampled: 10-3-17 Start (24 Hour) 10³⁰ End (24 Hour) _____

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
10 ¹²	.25	35.17	6.81	918.0	-128.4	24.2	0.93	clear	11.6
10 ¹⁴	.50	35.19	6.81	918.0	-132.6	24.2	0.73	"	10.9
10 ¹⁶	.75	NT	6.80	918.0	-135.3	24.4	0.61	"	10.3
10 ¹⁸	1.0	NT	6.79	919.0	-137.1	24.5	0.50	"	NT
10 ²⁰	1.25	35.23	6.79	920.0	-139.6	24.6	0.46	"	NT
10 ²²	1.50	35.24	6.78	922.0	-142.6	24.6	0.46	"	9.9
10 ²⁴	1.75	35.24	6.78	923.0	-144.1	24.7	0.45	"	9.7
10 ²⁶	2.0	NT	6.78	924.0	-144.9	24.7	0.45	"	NT
10 ²⁸	2.25	35.26	6.77	923.0	-145.5	24.7	0.46	"	9.9
10 ³⁰	2.5	35.26	6.77	923.0	-145.7	24.7	0.46	"	9.6

PURGING EQUIPMENT			SAMPLING EQUIPMENT				
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailer
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailer
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump		<input type="checkbox"/>	Other: Dedicated Tubing		<input type="checkbox"/>	

Remarks:

Completed By (Print Name): Dave Lubben

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project # : 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address : 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: Gmw-31
 Well Diameter: 4"
 Date: 10-5-17

25-65
SR INT

$$\frac{65.00}{\text{TD}} - \frac{33.18}{\text{DTW}} = \frac{31.82}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table:

$$\frac{33.18}{\text{DTW}} + 1/2 \left(\frac{15.91}{\text{Water Column}} \right) = \frac{49.09}{\text{Pump Intake Depth}}$$

Pump Intake Depth, Submerged Screen:

$$\frac{-}{\text{Top of Screen Depth}} + 1/2 \left(\frac{-}{\text{Screen Length}} \right) = \frac{49-50}{\text{Pump Intake Depth}}$$

Date Purged: 10-5-17 Start (24 Hour) 11¹⁰ End (24 Hour) 11³⁰
 Date Sampled: 10-5-12 Start (24 Hour) 11³⁰ End (24 Hour) —

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
11 ¹²	.25	33.23	7.09	1109	-127.9	24.7	0.50	clear	42.1
11 ¹⁴	.50	33.25	7.08	1109	-127.4	24.7	0.48	"	23.6
11 ¹⁶	.75	33.27	7.07	1109	-127.2	24.7	0.46	"	13.1
11 ¹⁸	1.0	NT	7.07	1108	-127.1	24.7	0.44	"	11.0
11 ²⁰	1.25	NT	7.07	1108	-127.3	24.6	0.41	"	NT
11 ²²	1.50	33.30	7.06	1108	-127.1	24.6	0.38	"	NT
11 ²⁴	1.75	33.31	7.06	1108	-127.2	24.6	0.36	"	10.3
11 ²⁶	2.0	NT	7.05	1109	-127.2	24.6	0.34	"	8.6
11 ²⁸	2.25	33.31	7.05	1109	-127.3	24.6	0.34	"	7.1
11 ³⁰	2.50	33.30	7.03	1109	-127.3	24.6	0.33	"	6.8

PURGING EQUIPMENT				SAMPLING EQUIPMENT			
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailor
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailor
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump			<input checked="" type="checkbox"/>	Other: Dedicated Tubing		

Remarks: _____

Completed By (Print Name): Dave Lubben

Signature: *Dave Lubben*

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address: 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: GMW-35R
 Well Diameter: 4"
 Date: 10-9-17

20-50
SCR-INT

$$\frac{50.00}{\text{TD}} - \frac{38.07}{\text{DTW}} = \frac{11.93}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table:

$$\frac{38.07}{\text{DTW}} + 1/2 \left(\frac{5.97}{\text{Water Column}} \right) = \frac{44.04}{\text{Pump Intake Depth}}$$

Pump Intake Depth, Submerged Screen:

$$\text{---} + 1/2 \left(\text{---} \right) = \frac{44-45}{\text{Pump Intake Depth}}$$

Date Purged: 10-9-17 Start (24 Hour) 2¹⁰ End (24 Hour) 2³⁰
 Date Sampled: 10-9-17 Start (24 Hour) 2³⁰ End (24 Hour) ---

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/°C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
2 ¹²	1.25	NT	6.88	1741	-137.6	24.0	0.29	clear	NT
2 ¹⁴	1.50	38.15	6.85	1741	-137.8	24.0	0.28	"	13.8
2 ¹⁶	1.75	38.17	6.85	1742	-138.0	24.1	0.28	"	12.6
2 ¹⁸	1.0	NT	6.84	1742	-137.8	24.1	0.27	"	NT
2 ²⁰	1.25	NT	6.84	1742	-137.5	24.1	0.27	"	NT
2 ²²	1.50	38.20	6.85	1743	-137.3	24.1	0.26	"	12.3
2 ²⁴	1.75	38.20	6.85	1743	-137.2	24.1	0.26	"	11.9
2 ²⁶	2.0	NT	6.85	1745	-137.1	24.1	0.26	"	NT
2 ²⁸	2.25	NT	6.84	1745	-137.1	24.1	0.25	"	10.9
2 ³⁰	2.50	38.21	6.84	1745	-137.0	24.1	0.25	"	10.5
 									
 									
 									

PURGING EQUIPMENT			SAMPLING EQUIPMENT				
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailer
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailer
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump		<input type="checkbox"/>	Other: Dedicated Tubing			

Remarks: _____

Completed By (Print Name): Dave Lubben ✓

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address: 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: Gmw-42
 Well Diameter: 4"
 Date: 10-3-17

50.50 - 34.71 = 15.29
 TD DTW Water Column

34.71 + 1/2(7.65) = 42.36
 DTW Water Column Pump Intake Depth

< OR >

— + 1/2(—) = 42-43
 Top of Screen Depth Screen Length Pump Intake Depth

Date Purged: 10-3-17 Start (24 Hour) 8:50 End (24 Hour) 9:10
 Date Sampled: 10-3-17 Start (24 Hour) 9:00 End (24 Hour) —

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
8:12	.25	NT	6.79	1352	-134.2	23.5	0.46	clear	4.7
8:54	.50	34.76	6.80	1352	-134.6	23.5	0.46	"	4.8
8:56	.75	34.79	6.80	1353	-135.1	23.6	0.45	"	NT
8:58	1.0	NT	6.80	1353	-135.5	23.6	0.45	"	NT
9:00	1.25	NT	6.80	1353	-135.9	23.7	0.44	"	4.2
9:02	1.50	34.83	6.79	1355	-136.5	23.7	0.44	"	3.9
9:04	1.75	34.84	6.79	1355	-137.0	23.7	0.44	"	3.9
9:06	2.0	NT	6.78	1355	-137.3	23.7	0.43		NT
9:08	2.25	NT	6.78	1356	-137.7	23.7	0.41		3.8
9:10	2.50	34.86	6.78	1357	-137.9	23.8	0.41		3.8

PURGING EQUIPMENT			SAMPLING EQUIPMENT		
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other: Dedicated Tubing	<input type="checkbox"/>

Remarks:

Completed By (Print Name): Dave Lubben ✓

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address: 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: GMW-44
 Well Diameter: 4"
 Date: 10-3-17

20-50
SCR-IM1

$$\begin{array}{r} 50.50 \\ \text{TD} \end{array} - \begin{array}{r} 34.41 \\ \text{DTW} \end{array} = \begin{array}{r} 16.09 \\ \text{Water Column} \end{array}$$

Pump Intake Depth, Screened Above Water Table:

$$\begin{array}{r} 34.41 \\ \text{DTW} \end{array} + 1/2 \left(\begin{array}{r} 8.05 \\ \text{Water Column} \end{array} \right) = \begin{array}{r} 42.46 \\ \text{Pump Intake Depth} \end{array}$$

Pump Intake Depth, Submerged Screen:

$$\begin{array}{r} - \\ \text{Top of Screen Depth} \end{array} + 1/2 \left(\begin{array}{r} - \\ \text{Screen Length} \end{array} \right) = \begin{array}{r} 42-43' \\ \text{Pump Intake Depth} \end{array}$$

Date Purged: 10-3-17 Start (24 Hour) 9:30 AM End (24 Hour) 9:00
 Date Sampled: 10-3-17 Start (24 Hour) 9:50 End (24 Hour) -

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/°C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
9:32	.25	NT	6.71	931.0	16.4	23.2	0.34	clear	8.2
9:34	.50	34.45	6.71	931.0	16.3	23.2	0.34	"	8.3
9:36	.25	34.47	6.71	931.0	16.1	23.2	0.33	"	NT
9:38	1.0	NT	6.71	930.0	15.3	23.3	0.33	"	8.7
9:40	1.25	NT	6.71	930.0	14.6	23.3	0.32	"	9.0
9:42	1.50	34.51	6.71	930.0	14.2	23.3	0.32	"	8.1
9:44	1.75	34.53	6.71	929.0	13.9	23.2	0.30	"	NT
9:46	2.0	NT	6.72	929.0	13.6	23.2	0.30	"	NT
9:48	2.25	34.55	6.72	929.0	13.4	23.2	0.29	"	7.3
9:50	2.50	34.55	6.72	929.0	13.1	23.2	0.28	"	6.9

PURGING EQUIPMENT				SAMPLING EQUIPMENT			
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailer
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailer
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump			<input checked="" type="checkbox"/>	Other: Dedicated Tubing		

Remarks:

Completed By (Print Name): Dave Lubben ✓

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project # : 091-NDLA-018/Task 5

Well ID: 6mw - 45

Client/Station: Defense Fuel Support Point Norwalk

Well Diameter: 4"

Address : 15306 Norwalk Boulevard
Norwalk, California 90650

Date: 10-10-17

20-50
SUR-INT

$$\begin{array}{rcc} 50.50 & - & 34.57 & = & 15.93 \\ \text{TD} & & \text{DTW} & & \text{Water} \\ & & & & \text{Column} \end{array}$$

Pump Intake Depth, Screened Above Water Table:

< OR >

Pump Intake Depth, Submerged Screen:

$$\begin{array}{rcc} 34.57 & + 1/2(& 7.97 &) = & 43.54 \\ \text{DTW} & & \text{Water} & & \text{Pump Intake} \\ & & \text{Column} & & \text{Depth} \end{array}$$

$$\begin{array}{rcc} & + 1/2(& &) = & 43.44' \\ \text{Top of Screen} & & \text{Screen} & & \text{Pump Intake} \\ \text{Depth} & & \text{Length} & & \text{Depth} \end{array}$$

Date Purged: 10-10-17 Start (24 Hour) 11:00 AM End (24 Hour) 12:20

Date Sampled: 10-10-17 Start (24 Hour) _____ End (24 Hour) _____

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
1102	.25	NT	6.87	648.0	-174.5	24.3	0.27	clear	149.3
1104	.50	NT	6.84	540.1	-170.3	24.3	0.26	"	103.6
1106	.75	"	6.82	510.3	-161.3	24.3	0.26	"	88.3
1108	1.0	"	6.79	524.0	-155.6	24.4	0.25	"	NT
1110	1.25	"	6.77	526.0	-153.6	24.4	0.23	"	NT
1112	1.50	"	6.74	531.3	-152.1	24.4	0.21	"	NT
1114	1.75	Prod in well							
1116	2.0	stop purge							
1118	2.25	NO SAMPLE							
1120	2.50	NO SAMPLE							
		NO SAMPLE							
		NO SAMPLE							

PURGING EQUIPMENT			SAMPLING EQUIPMENT		
	Centrifugal Pump	Vac Truck		Centrifugal Pump	Teflon Bailor
	Submersible Pump	Disposable Pump		Submersible Pump	Disposable Bailor
CD	Other: Low Flow Submersible Pump		D	Other: Dedicated Tubing	

Remarks:

started drawing in product. Glen will gauge at end of day to obtain prod. thickness read.

Completed By (Print Name): Dave Lubben ✓

Signature: Dave Lubben

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project # : 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address : 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: BMW-47
 Well Diameter: 4"
 Date: 10-4-17

20-50
SCREEN

$$\frac{50.50}{TD} - \frac{34.20}{DTW} = \frac{16.30}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table: **< OR >** **Pump Intake Depth, Submerged Screen:**

$$\frac{34.20}{DTW} + 1/2 \left(\frac{8.15}{\text{Water Column}} \right) = \frac{42.35}{\text{Pump Intake Depth}}$$

$$\frac{\text{---}}{\text{Top of Screen Depth}} + 1/2 \left(\frac{\text{---}}{\text{Screen Length}} \right) = \frac{42-43}{\text{Pump Intake Depth}}$$

Date Purged: 10-4-17 Start (24 Hour) 8:55 End (24 Hour) 9:15
 Date Sampled: 10-4-17 Start (24 Hour) 9:15 End (24 Hour) _____

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
8:57	1.25	NT	6.70	2140	-36.6	22.6	0.58	Clear	16.3
8:59	.50	34.26	6.67	2140	-35.3	22.6	0.53	"	14.0
9:01	.75	34.28	6.65	2142	-34.5	22.6	0.50	"	13.2
9:03	1.0	34.30	6.65	2142	-34.1	22.6	0.48	"	10.8
9:05	1.25	34.32	6.64	2143	-36.7	22.7	0.45	"	NT
9:07	1.50	34.35	6.64	2145	-38.9	22.7	0.41	"	NT
9:09	1.75	NT	6.63	2145	-40.3	22.7	0.39	"	9.9
9:11	2.0	NT	6.63	2148	-43.4	22.7	0.37	"	8.9
9:13	2.25	34.36	6.63	2149	-43.9	22.8	0.34	"	8.5
9:15	2.50	34.36	6.62	2151	-44.3	22.8	0.33	"	8.1

PURGING EQUIPMENT				SAMPLING EQUIPMENT			
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailer
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailer
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump			<input checked="" type="checkbox"/>	Other: Dedicated Tubing		

Remarks: _____

Completed By (Print Name): Dave Lubben

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address: 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: 6MW-48
 Well Diameter: 4"
 Date: 10-9-17

20-50
 SPRINT

$$\frac{50.50}{TD} - \frac{36.53}{DTW} = \frac{13.97}{Water Column}$$

Pump Intake Depth, Screened Above Water Table: < OR > **Pump Intake Depth, Submerged Screen:**

$$\frac{36.53}{DTW} + 1/2 \left(\frac{6.99}{Water Column} \right) = \frac{43.52}{Pump Intake Depth}$$

$$\frac{\quad}{Top of Screen Depth} + 1/2 \left(\frac{\quad}{Screen Length} \right) = \frac{43.44'}{Pump Intake Depth}$$

Date Purged: 10-9-17 Start (24 Hour) 135 End (24 Hour) 155
 Date Sampled: 10-9-17 Start (24 Hour) 155 End (24 Hour)

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/°C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
137	25	NT	7.04	1571	-154.3	26.1	0.46	clear	7.9
139	50	36.59	7.02	1571	-155.9	26.2	0.46	"	8.1
141	25	36.62	7.02	1571	-156.5	26.3	0.45	"	7.8
143	1.0	36.65	7.02	1572	-156.9	26.3	0.44	"	8.0
145	125	NT	7.01	1572	-157.2	26.3	0.43	"	NT
147	15 2.25	NT	7.00	1574	-157.5	26.3	0.43	"	NT
149	175 1.75	36.68	7.00	1576	-157.6	26.3	0.43	"	NT
151	2.0 1.75	36.68	6.98	1577	-157.6	26.3	0.42	"	7.8
153	225 2.0	NT	6.97	1579	-157.8	26.4	0.42	"	7.7
155	2.5 2.5	36.69	6.97	1580	-158.0	26.4	0.42	"	7.9

PURGING EQUIPMENT				SAMPLING EQUIPMENT			
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailor
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailor
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump			<input checked="" type="checkbox"/>	Other: Dedicated Tubing		

Remarks: DUP-7 obtained here.

Completed By (Print Name): Dave Lubben

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address: 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: GMW-56
 Well Diameter: 4"
 Date: 10-3-17

20-55
SCR IM1

$$\frac{55.00}{TD} - \frac{33.32}{DTW} = \frac{21.68}{Water Column}$$

Pump Intake Depth, Screened Above Water Table: **< OR >** **Pump Intake Depth, Submerged Screen:**

$$\frac{33.32}{DTW} + 1/2 \left(\frac{10.84}{Water Column} \right) = \frac{44.16}{Pump Intake Depth}$$

$$\frac{---}{Top of Screen Depth} + 1/2 \left(\frac{---}{Screen Length} \right) = \frac{44.45}{Pump Intake Depth}$$

Date Purged: 10-3-17 Start (24 Hour) 1240 End (24 Hour) 100
 Date Sampled: 10-3-17 Start (24 Hour) 100 End (24 Hour) ---

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/°C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
1242	.25	33.35	7.14	912.0	-131.5	23.5	0.46	clear	26.1
1244	.50	33.38	7.14	912.0	-131.8	23.5	0.42	"	12.6
1246	.75	33.40	7.13	911.0	-132.2	23.6	0.41	"	NT
1248	1.0	NT	7.13	911.0	-132.4	23.6	0.38	"	NT
1250	1.25	NT	7.11	910.0	-132.2	23.6	0.35	"	9.2
1252	1.50	34.43	7.11	910.0	-132.1	23.6	0.32	"	8.1
1254	1.75	34.44	7.10	909.0	-132.0	23.6	0.30	"	NT
1256	2.00	NT	7.09	909.0	-132.0	23.6	0.28	"	5.1
1258	2.25	NT	7.09	909.0	-132.0	23.6	0.28	"	5.0
1:00p	2.50	34.45	7.08	909.0	-132.0	23.6	0.27	"	4.6

PURGING EQUIPMENT			SAMPLING EQUIPMENT				
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailor
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailor
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump		<input type="checkbox"/>	Other: Dedicated Tubing			

Remarks:

Completed By (Print Name): Dave Lubben ✓

Signature: [Signature]

Reviewed By: DS

Date: 10/29/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project # : 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address : 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: GMW-57
 Well Diameter: 4"
 Date: 10-4-17

19-54 section

$$\frac{55.00}{TD} - \frac{34.80}{DTW} = \frac{20.20}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table:

$$\frac{34.80}{DTW} + 1/2 \left(\frac{10.10}{\text{Water Column}} \right) = \frac{45.90}{\text{Pump Intake Depth}}$$

Pump Intake Depth, Submerged Screen:

$$\frac{\text{---}}{\text{Top of Screen Depth}} + 1/2 \left(\frac{\text{---}}{\text{Screen Length}} \right) = \frac{45-46'}{\text{Pump Intake Depth}}$$

Date Purged: 10-4-17 Start (24 Hour) 930 End (24 Hour) 950
 Date Sampled: 10-4-17 Start (24 Hour) 950 End (24 Hour) ---

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
932	.25	NT	7.09	1658	-140.7	24.2	0.30	den	1.1
934	.50	34.85	7.09	1658	-140.3	24.2	0.30	"	1.7
936	.75	34.87	7.07	1658	-140.3	24.2	0.29	"	1.6
938	1.0	NT	7.07	1659	-140.4	24.2	0.29	"	NT
940	1.25	NT	7.06	1659	-140.5	24.2	0.29	"	NT
942	1.50	34.93	7.05	1659	-140.6	24.2	0.28	"	2.0
944	1.75	34.95	7.05	1659	-140.8	24.2	0.27	"	1.9
946	2.0	NT	7.04	1660	-140.9	24.3	0.27	"	NT
948	2.25	NT	7.04	1660	-141.3	24.3	0.26	"	2.1
950	2.50	34.97	7.03	1662	-141.5	24.3	0.25	"	2.0

PURGING EQUIPMENT			SAMPLING EQUIPMENT				
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailer
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailer
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump		<input type="checkbox"/>	Other: Dedicated Tubing		<input type="checkbox"/>	

Remarks: _____

Completed By (Print Name): Dave Lubben

Signature: *Dave Lubben*

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address: 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: Gmw-58
 Well Diameter: 4"
 Date: 10-9-17

*20.55
SCREEN*

$$\frac{55.00}{TD} - \frac{34.22}{DTW} = \frac{20.78}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table:

$$\frac{34.22}{DTW} + 1/2 \left(\frac{10.39}{\text{Water Column}} \right) = \frac{44.61}{\text{Pump Intake Depth}}$$

Pump Intake Depth, Submerged Screen:

$$\frac{\text{Top of Screen Depth}}{+1/2 \left(\frac{\text{Screen Length}}{\text{Pump Intake Depth}} \right)} = \frac{44-45}{\text{Pump Intake Depth}}$$

Date Purged: 10-9-17 Start (24 Hour) 10²⁰ End (24 Hour) 10⁴⁰
 Date Sampled: 10-9-17 Start (24 Hour) 10⁴⁰ End (24 Hour)

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
10 ²²	.25	34.27	7.06	1364	-142.3	24.2	0.33	clear	30.3
10 ²⁴	.50	34.30	7.03	1364	-143.7	24.2	0.33	"	27.2
10 ²⁶	.75	NT	7.00	1364	-145.0	24.2	0.32	"	26.8
10 ²⁸	1.0	NT	7.00	1364	-147.0	24.2	0.32	"	NT
10 ³⁰	1.25	34.35	6.99	1364	-147.3	24.1	0.31	"	NT
10 ³²	1.50	34.35	6.99	1364	-147.1	24.1	0.30	"	22.7
10 ³⁴	1.75	34.36	6.98	1364	-147.5	24.1	0.30	"	23.1
10 ³⁶	2.0	NT	6.98	1365	-147.9	24.1	0.28	"	22.5
10 ³⁸	2.25	34.38	6.97	1365	-148.3	24.1	0.28	"	22.1
10 ⁴⁰	2.50	34.38	6.97	1365	-148.6	24.1	0.27	"	21.5

PURGING EQUIPMENT			SAMPLING EQUIPMENT		
<input type="checkbox"/>	Centrifugal Pump		<input type="checkbox"/>	Centrifugal Pump	Teflon Bailor
<input type="checkbox"/>	Submersible Pump	Vac Truck	<input type="checkbox"/>	Submersible Pump	Disposable Bailor
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump		<input checked="" type="checkbox"/>	Other: Dedicated Tubing	

Remarks:

Completed By (Print Name): Dave Lubben

Signature: *Dave Lubben*

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address: 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: GMW-59
 Well Diameter: 4"
 Date: 10-9-17

20-55
SCR-INT

$$\frac{85.00}{TD} - \frac{32.03}{DTW} = \frac{22.97}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table:

$$\frac{32.03}{DTW} + 1/2 \left(\frac{11.49}{\text{Water Column}} \right) = \frac{43.52}{\text{Pump Intake Depth}}$$

Pump Intake Depth, Submerged Screen:

$$\frac{\text{Top of Screen Depth}}{\text{Depth}} + 1/2 \left(\frac{\text{Screen Length}}{\text{Pump Intake Depth}} \right) = \frac{43-44}{\text{Pump Intake Depth}}$$

Date Purged: 10-9-17 Start (24 Hour) 100 pm End (24 Hour) 122
 Date Sampled: 10-9-17 Start (24 Hour) 120 End (24 Hour) —

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
103	0.25	NT	6.77	1368	-158.3	25.5	0.30	clear	13.7
105	0.50	32.10	6.77	1368	-159.5	25.5	0.30	"	12.9
107	0.75	32.13	6.77	1368	-161.0	25.5	0.28	"	12.1
109	1.0	32.15	6.76	1369	-162.2	25.5	0.28	"	11.5
112	1.25	NT	6.76	1369	-162.9	25.5	0.27	"	11.5
114	1.50	NT	6.76	1369	-163.3	25.6	0.27	"	10.9
116	1.75	32.12	6.75	1369	-163.7	25.6	0.26	"	10.5
118	2.0	32.18	6.75	1370	-163.9	25.7	0.26	"	10.1
120	2.25	32.18	6.75	1370	-163.8	25.7	0.26	"	10.3
122	2.50	32.18	6.75	1370	-164.0	25.7	0.25	"	9.8

PURGING EQUIPMENT				SAMPLING EQUIPMENT			
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailor
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailor
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump			<input checked="" type="checkbox"/>	Other: Dedicated Tubing		

Remarks:

Completed By (Print Name): Dave Lubben

Signature: [Signature]

Reviewed By: DS

Date: 10/29/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address: 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: GMW-60
 Well Diameter: 4"
 Date: 10-9-17

25.50

$$\frac{50.00}{TD} - \frac{34.21}{DTW} = \frac{15.79}{Water\ Column}$$

Pump Intake Depth, Screened Above Water Table:

$$\frac{34.21}{DTW} + 1/2 \left(\frac{7.90}{Water\ Column} \right) = \frac{42.11}{Pump\ Intake\ Depth}$$

< OR >

Pump Intake Depth, Submerged Screen:

$$\frac{---}{Top\ of\ Screen\ Depth} + 1/2 \left(\frac{---}{Screen\ Length} \right) = \frac{42-43}{Pump\ Intake\ Depth}$$

Date Purged: 10-9-17 Start (24 Hour) 11¹⁰ End (24 Hour) 11³⁰
 Date Sampled: 10-9-17 Start (24 Hour) 11³⁰ End (24 Hour) ---

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
1112	.25	NT	7.27	2519	-251.9	24.6	0.50	clear	NT
1114	.50	34.27	7.20	2524	-267.3	24.6	0.36	"	19.7
1116	.75	34.29	7.16	2528	-272.8	24.6	0.28	"	16.1
1118	1.0	34.31	7.15	2531	-278.6	24.6	0.25	"	13.5
1120	1.25	NT	7.14	2533	-279.6	24.6	0.23	"	NT
1122	1.50	NT	7.14	2534	-289.6	24.6	0.22	"	NT
1124	1.75	34.34	7.14	2535	-293.6	24.8	0.22	"	12.3
1126	2.0	34.35	7.14	2535	-295.3	24.8	0.21	"	11.1
1128	2.25	NT	7.13	2536	-296.4	24.8	0.21	"	10.7
1130	2.50	34.35	7.13	2536	-297.2	24.9	0.20	"	10.8
 									
 									
 									

PURGING EQUIPMENT			SAMPLING EQUIPMENT				
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailor
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailor
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump		<input type="checkbox"/>	Other: Dedicated Tubing			

Remarks:

Completed By (Print Name): Dave Lubben

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5

Well ID: GMW 61

Client/Station: Defense Fuel Support Point Norwalk

Well Diameter: 4"

Address: 15306 Norwalk Boulevard
Norwalk, California 90650

Date: 10-9-17

30-40
SCREEN INT

$$\frac{50.00}{TD} - \frac{33.46}{DTW} = \frac{16.54}{Water Column}$$

$$\frac{40.00}{-33.46} = \frac{6.54}{3.27}$$

Pump Intake Depth, Screened Above Water Table: < OR > Pump Intake Depth, Submerged Screen:

$$\frac{33.46}{DTW} + 1/2 \left(\frac{8.27}{Water Column} \right) = \frac{41.73}{Pump Intake Depth}$$

$$\frac{—}{Top of Screen Depth} + 1/2 \left(\frac{—}{Screen Length} \right) = \frac{36.27}{Pump Intake Depth}$$

Date Purged: 10-9-17 Start (24 Hour) 1150 End (24 Hour) 12¹⁰

Date Sampled: 10-9-17 Start (24 Hour) 12¹⁰ End (24 Hour) —

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
1152	.25	33.50	7.14	2262	-218.1	24.8	0.41	clear	14.8
1154	.50	33.54	7.12	2255	-218.3	24.8	0.39	"	14.1
1156	.75	NT	7.11	2249	-218.3	24.8	0.37	"	NT
1158	1.0	NT	7.11	2245	-218.2	24.7	0.34	"	12.3
1200	1.25	33.58	7.09	2241	-218.1	24.7	0.31	"	11.2
1202	1.50	33.58	7.09	2239	-218.0	24.7	0.29	"	10.5
1204	1.75	NT	7.08	2235	-218.0	24.7	0.27	"	NT
1206	2.0	NT	7.07	2232	-217.9	24.7	0.27	"	NT
1208	2.25	33.60	7.07	2230	-217.9	24.7	0.26	"	9.1
1210	2.50	33.60	7.07	2231	-217.8	24.7	0.26	"	8.9
 									
 									
 									

PURGING EQUIPMENT				SAMPLING EQUIPMENT			
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailer
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailer
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump			<input checked="" type="checkbox"/>	Other: Dedicated Tubing		

Remarks:

Completed By (Print Name): Dave Lubben ✓

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project # : 091-NDLA-018/Task 5

Well ID: GMW-62

Client/Station: Defense Fuel Support Point Norwalk

Well Diameter: 4"

Address : 15306 Norwalk Boulevard
Norwalk, California 90650

Date: 10-2-17

DPE 34.21 SCREEN 0.01

40.50 - 34.22 = _____
TD DTW Water Column

Pump Intake Depth, Screened Above Water Table:
 _____ + 1/2(_____) = _____
DTW Water Column Pump Intake Depth

< OR > Pump Intake Depth, Submerged Screen:
 _____ + 1/2(_____) = _____
Top of Screen Depth Screen Length Pump Intake Depth

Date Purged: _____ Start (24 Hour) _____ End (24 Hour) _____
 Date Sampled: _____ Start (24 Hour) _____ End (24 Hour) _____

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/°C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
X									

PURGING EQUIPMENT				SAMPLING EQUIPMENT			
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailer
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailer
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump			<input checked="" type="checkbox"/>	Other: Dedicated Tubing		

Remarks: Sock in well - strong odor - DISS phase on probe.

Completed By (Print Name): Dave Lubben

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address: 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: Gmw-63
 Well Diameter: 4"
 Date: 10-2-17

$$\frac{41.00}{\text{TD}} - \frac{34.81}{\text{DTW}} = \frac{6.19}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table:

$$\frac{34.81}{\text{DTW}} + 1/2 \left(\frac{3.10}{\text{Water Column}} \right) = \frac{37.91}{\text{Pump Intake Depth}}$$

Pump Intake Depth, Submerged Screen:

$$- + 1/2 \left(- \right) = 0.38'$$

Top of Screen Depth Screen Length Pump Intake Depth

Date Purged: 10-2-17 Start (24 Hour) 845A End (24 Hour) 906A
 Date Sampled: 10-2-17 Start (24 Hour) 905A End (24 Hour) _____

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
848	.25	34.85	6.85	1457	107.7	20.5	0.93	silty clear	315.0
850	.50	34.88	6.85	1455	107.8	20.6	0.82	grayish	268.1
852	.25	NT	6.83	1452	107.9	20.6	0.74	"	200.1
854	1.0	34.94	6.83	1449	107.8	20.6	0.70	"	190.1
856	1.25	34.96	6.83	1447	107.7	20.7	0.68	"	182.3
858	1.50	34.97	6.83	1446	107.5	20.7	0.68	"	134.3
900	1.25	NT	6.82	1445	107.4	20.7	0.67	"	107.3
902	2.0	N4	6.82	1443	107.2	20.7	0.67	"	97.8
904	2.25	34.99	6.82	1442	107.3	20.7	0.67	"	91.2
906	2.50	35.00	6.82	1441	107.1	20.7	0.66	"	86.7
 									
 									
 									

PURGING EQUIPMENT			SAMPLING EQUIPMENT		
	Centrifugal Pump	Vac Truck		Centrifugal Pump	Teflon Bailer
	Submersible Pump	Disposable Pump		Submersible Pump	Disposable Bailer
X	Other: Low Flow Submersible Pump		0	Other: Dedicated Tubing	

Remarks: water in well box - clear holes and gashed

Completed By (Print Name): Dave Lubben

Signature: [Signature]

Reviewed By: DS

Date: 10/29/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5

Well ID: GMW-63

Client/Station: Defense Fuel Support Point Norwalk

Well Diameter: 40

Address: 15306 Norwalk Boulevard
Norwalk, California 90650

Date: 10-25-17

SCR-INT
= 20-40

$$\frac{40.00}{\text{TD}} - \frac{34.93}{\text{DTW}} = \frac{5.07}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table:

< OR >

Pump Intake Depth, Submerged Screen:

$$\frac{34.93}{\text{DTW}} + 1/2 \left(\frac{2.54}{\text{Water Column}} \right) = \frac{37.47}{\text{Pump Intake Depth}}$$

$$\frac{\text{---}}{\text{Top of Screen Depth}} + 1/2 \left(\frac{\text{---}}{\text{Screen Length}} \right) = \frac{37-38}{\text{Pump Intake Depth}}$$

Date Purged: 10-25-17 Start (24 Hour) 942 End (24 Hour) 1002

Date Sampled: 10-25-17 Start (24 Hour) 1000 End (24 Hour) ---

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/°C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
944	.25	NT	7.20	1522	197.3	20.8	0.68	clear	45.0
946	.50	35.47	7.20	1520	197.2	20.8	0.60	"	42.1
948	.75	NT	7.20	1510	196.9	20.8	0.46	"	34.1
950	1.0	NT	7.20	1510	196.7	20.8	0.36	"	29.0
952	1.25	NT	7.20	1508	196.4	20.8	0.29	"	29.8
954	1.50	35.54	7.22	1510	195.5	20.8	0.18	"	23.1
956	1.25	NT	7.22	1527	196.5	21.1	0.16	"	22.8
958	2.0	NT	7.23	1529	196.7	21.1	0.15	"	19.3
1000	2.25	ML	7.23	1827	196.9	21.1	0.13	"	16.4
1002	2.50	35.10	7.27	1530	197.3	21.1	0.12	"	17.9

PURGING EQUIPMENT				SAMPLING EQUIPMENT			
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailer
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailer
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump			<input checked="" type="checkbox"/>	Other: Dedicated Tubing		

Remarks:

Completed By (Print Name): Dave Lubben

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project # : 091-NDLA-018/Task 5

Well ID: Gmw-64

Client/Station: Defense Fuel Support Point Norwalk

Well Diameter: 4"

Address : 15306 Norwalk Boulevard
Norwalk, California 90650

Date: 10-2-17

*19.5-39.5
SCREEN*

$$\frac{41.00}{\text{TD}} - \frac{32.98}{\text{DTW}} = \frac{8.02}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table:

< OR >

Pump Intake Depth, Submerged Screen:

$$\frac{32.98}{\text{DTW}} + 1/2 \left(\frac{4.01}{\text{Water Column}} \right) = \frac{36.99}{\text{Pump Intake Depth}}$$

$$\frac{-}{\text{Top of Screen Depth}} + 1/2 \left(\frac{-}{\text{Screen Length}} \right) = \frac{37}{\text{Pump Intake Depth}}$$

Date Purged: 10-2-17 Start (24 Hour) 9:25 End (24 Hour) 9:46 P

Date Sampled: 10-2-17 Start (24 Hour) 9:45 End (24 Hour) ---

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/°C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
928	.25	33.02	6.96	1720	125.2	20.4	0.52	clear	49.7
930	.50	33.05	6.96	1719	127.0	20.4	0.47	"	47.7
932	.75	NT	6.92	1719	127.7	20.3	0.43	"	45.1
934	1.0	NT	6.91	1718	127.6	20.3	0.41	"	45.6
936	1.25	33.08	6.90	1718	127.5	20.3	0.39	"	44.8
938	1.5	33.09	6.90	1718	127.4	20.3	0.38	"	NT
940	1.75	NT	6.90	1718	127.4	20.3	0.37	"	NT
942	2.0	NT	6.90	1717	127.3	20.3	0.36	"	44.7
944	2.25	33.10	6.90	1718	127.2	20.3	0.35	"	44.1
946	2.5	33.10	6.90	1719	127.1	20.3	0.35	"	44.3
 									
 									
 									

PURGING EQUIPMENT			SAMPLING EQUIPMENT		
<input type="checkbox"/>	Centrifugal Pump	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	Teflon Bailer
<input type="checkbox"/>	Submersible Pump	Disposable Pump	<input type="checkbox"/>	Submersible Pump	Disposable Bailer
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump		<input checked="" type="checkbox"/>	Other: Dedicated Tubing	

Remarks:

Completed By (Print Name): Dave Lubben

Signature: *[Signature]*

Reviewed By: DS

Date: 10/29/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5

Well ID: GMW-64

Client/Station: Defense Fuel Support Point Norwalk

Well Diameter: 4"

Address: 15306 Norwalk Boulevard
Norwalk, California 90650

Date: 10-25-17

SCR-INT
19.5-39.5

$$\frac{39.50}{\text{TD}} - \frac{33.13}{\text{DTW}} = \frac{6.37}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table:

< OR >

Pump Intake Depth, Submerged Screen:

$$\frac{33.13}{\text{DTW}} + \frac{1}{2} \left(\frac{3.19}{\text{Water Column}} \right) = \frac{36.32}{\text{Pump Intake Depth}}$$

$$\frac{\text{Top of Screen Depth}}{\text{Top of Screen Depth}} + \frac{1}{2} \left(\frac{\text{Screen Length}}{\text{Screen Length}} \right) = \frac{36-37'}{\text{Pump Intake Depth}}$$

Date Purged: 10-25-17 Start (24 Hour) 9:00 End (24 Hour) 9:20

Date Sampled: 10-25-17 Start (24 Hour) 9:20 End (24 Hour) _____

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/°C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
9:02	.25	33.15	7.11	1875	222.5	20.7	0.53	clear	10.8
9:04	.50	33.17	7.11	1873	220.5	21.0	0.38	"	12.3
9:06	.75	MT	7.13	1869	225.6	21.0	0.33	"	4.8
9:08	1.0	MT	7.12	1872	224.3	20.9	0.29	"	4.1
9:10	1.25	MT	7.13	1873	221.8	21.0	0.23	"	2.6
9:12	2.50	MT	7.14	1877	229.5	21.4	0.21	"	2.0
9:14	1.25	MT	7.14	1880	217.9	21.4	0.20	"	2.0
9:16	2.0	MT	7.14	1882	217.5	21.5	0.20	"	2.0
9:18	2.25	33.18	7.14	1882	217.2	21.5	0.20	"	2.1
9:20	2.50	33.18	7.14	1881	216.6	21.5	0.22	"	2.3
 									
 									
 									

PURGING EQUIPMENT				SAMPLING EQUIPMENT			
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailer
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailer
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump			<input checked="" type="checkbox"/>	Other: Dedicated Tubing		

Remarks:

Completed By (Print Name): Dave Lubben

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5

Well ID: Gmw-65

Client/Station: Defense Fuel Support Point Norwalk

Well Diameter: 4"

Address: 15306 Norwalk Boulevard
Norwalk, California 90650

Date: 10-2-17

$$\frac{41.50}{\text{TD}} - \frac{34.51}{\text{DTW}} = \frac{6.99}{\text{Water Column}}$$

21-41
SCR-INT

Pump Intake Depth, Screened Above Water Table: <OR>

$$\frac{34.51}{\text{DTW}} + 1/2 \left(\frac{3.50}{\text{Water Column}} \right) = \frac{42.01}{\text{Pump Intake Depth}} \approx 38.01$$

Pump Intake Depth, Submerged Screen:

$$- + 1/2 \left(- \right) = 38'$$

Top of Screen Depth Screen Length Pump Intake Depth

Date Purged: 10-2-17 Start (24 Hour) 9⁵⁵ End (24 Hour) 10¹⁶

Date Sampled: 10-2-17 Start (24 Hour) 10¹⁵ End (24 Hour) _____

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
9 ⁵⁸	.25	34.54	6.88	2273	-72.2	21.5	0.96	clear	11.8
10 ⁰⁰	.50	34.56	6.92	2273	-70.6	21.9	0.61	"	10.6
10 ⁰²	.75	NT	6.90	22.87	-70.9	22.6	0.46	"	9.8
10 ⁰⁴	1.0	NT	6.87	22.93	-71.3	23.0	0.45	"	10.2
10 ⁰⁶	1.25	34.58	6.88	2301	-71.7	23.0	0.45	"	10.0
10 ⁰⁸	1.50	34.58	6.88	2303	-71.9	23.1	0.46	"	NT
10 ¹⁰	1.75	NT	6.87	2307	-72.1	23.1	0.44	"	NT
10 ¹²	2.0	NT	6.87	2310	-72.3	23.1	0.43	"	9.8
10 ¹⁴	2.25	34.57	6.86	2309	-72.4	23.2	0.43	"	9.9
10 ¹⁶	2.50	34.57	6.86	2311	-72.7	23.2	0.41	"	10.0

PURGING EQUIPMENT			SAMPLING EQUIPMENT				
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailor
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailor
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump		<input type="checkbox"/>	Other: Dedicated Tubing			

Remarks:

Completed By (Print Name): Dave Lubben ✓

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address: 15306 Norwalk Boulevard
 Norwalk, California 90650

SCRINT
 21'-41'

Well ID: GMW-65
 Well Diameter: 4"
 Date: 10-25-17

$$\frac{41.00}{\text{TD}} - \frac{34.78}{\text{DTW}} = \frac{7.22}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table:

$$\frac{34.78}{\text{DTW}} + \frac{1}{2} \left(\frac{3.61}{\text{Water Column}} \right) = \frac{38.39}{\text{Pump Intake Depth}}$$

< OR >

Pump Intake Depth, Submerged Screen:

$$\frac{38.39}{\text{Top of Screen Depth}} + \frac{1}{2} \left(\frac{10.138}{\text{Screen Length}} \right) = \frac{38.39}{\text{Pump Intake Depth}}$$

Date Purged: 10-25-17 Start (24 Hour) 10¹⁸ End (24 Hour) 10¹³⁸
 Date Sampled: 10-25-17 Start (24 Hour) 10³⁸ End (24 Hour) _____

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/°C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
10 ²⁰	.25	NT	7.16	2501	19.1	22.8	0.87	clear	24.5
10 ²²	.50	NT	7.15	2494	1.3	22.4	0.34	"	17.0
10 ²⁴	.75	NT	7.15	2490	-2.9	21.3	0.27	"	18.3
10 ²⁶	1.0	35.20	7.14	2486	-3.7	21.1	0.24	"	18.1
10 ²⁸	1.25	35.22	7.14	2488	-7.0	21.7	0.21	"	16.0
10 ³⁰	1.50	NT	7.13	2483	-7.5	21.7	0.20	"	16.5
10 ³²	1.75	NT	7.13	2477	-7.3	21.6	0.19	"	16.0
10 ³⁴	2.0	NT	7.13	2457	-7.7	21.6	0.17	"	27.0
10 ³⁶	2.25	NT	7.13	2442	-8.4	21.5	0.16	"	20.1
10 ³⁸	2.50	35.28	7.13	2437	-8.2	21.4	0.7	"	15.1

PURGING EQUIPMENT			SAMPLING EQUIPMENT		
<input type="checkbox"/>	Centrifugal Pump		<input type="checkbox"/>	Centrifugal Pump	Teflon Bailer
<input type="checkbox"/>	Submersible Pump	Vac Truck	<input type="checkbox"/>	Submersible Pump	Disposable Bailer
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump		<input checked="" type="checkbox"/>	Other: Dedicated Tubing	

Remarks: _____

Completed By (Print Name): Dave Lubben Signature: [Signature]
 Reviewed By: DS Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project # : 091-NDLA-018/Task 5

Well ID: 6mw-66R

Client/Station: Defense Fuel Support Point Norwalk

Well Diameter: 4"

Address : 15306 Norwalk Boulevard
Norwalk, California 90650

Date: 10-4-17

20-45
Scr-In.

$$\frac{46.50}{TD} - \frac{37.34}{DTW} = \frac{9.16}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table:

$$\frac{37.34}{DTW} + 1/2 \left(\frac{4.58}{\text{Water Column}} \right) = \frac{41.92}{\text{Pump Intake Depth}}$$

Pump Intake Depth, Submerged Screen:

$$\frac{\text{Top of Screen Depth}}{\text{Top of Screen Depth}} + 1/2 \left(\frac{\text{Screen Length}}{\text{Screen Length}} \right) = \frac{41.42}{\text{Pump Intake Depth}}$$

Date Purged: 10-4-17 Start (24 Hour) 10¹⁰ End (24 Hour) 10³⁰

Date Sampled: 10-4-17 Start (24 Hour) 10³⁰ End (24 Hour) —

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/°C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
10 ¹²	.25	NT	7.13	2652	-150.0	24.2	0.20	clear	13.3
10 ¹⁴	.50	37.39	7.13	2653	-151.0	24.3	0.20	"	11.9
10 ¹⁶	.75	37.42	7.13	2655	-151.4	24.3	0.19	"	NT
10 ¹⁸	1.0	37.45	7.13	2657	-151.8	24.3	0.19	"	NT
10 ²⁰	1.25	NT	7.14	2657	-152.1	24.4	0.17	"	12.1
10 ²²	1.50	37.52	7.14	2658	-152.3	24.4	0.16	"	10.7
10 ²⁴	1.75	37.54	7.13	2658	-152.5	24.4	0.15	"	10.3
10 ²⁶	2.0	37.55	7.13	2658	-152.8	24.4	0.15	"	NT
10 ²⁸	2.25	37.57	7.13	2658	-153.0	24.4	0.13	"	NT
10 ³⁰	2.50	37.58	7.13	2658	-153.1	24.4	0.13	"	9.7

PURGING EQUIPMENT				SAMPLING EQUIPMENT			
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailer
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailer
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump			<input checked="" type="checkbox"/>	Other: Dedicated Tubing		

Remarks:

Completed By (Print Name): Dave Lubben ✓

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address: 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: GMW-67
 Well Diameter: 4"
 Date: 10-2-17

47.00 - 33.76 = 13.24
 TD DTW Water Column

Pump Intake Depth, Screened Above Water Table:
33.76 + 1/2(6.62) = 40.38
 DTW Water Column Pump Intake Depth

Pump Intake Depth, Submerged Screen:
 — + 1/2(—) = 0.40
 Top of Screen Depth Screen Length Pump Intake Depth

Date Purged: 10-2-17 Start (24 Hour) 1035 End (24 Hour) 1056
 Date Sampled: 10-2-17 Start (24 Hour) 1055 End (24 Hour) —

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
1038	.25	NT	6.91	2031	-117.3	22.7	0.53	clear	10.6
1040	.50	33.82	6.90	2038	-116.9	22.5	0.52	"	10.0
1042	.75	33.85	6.90	2039	-116.6	22.2	0.51	"	7.4
1044	1.0	NT	6.91	2037	-116.4	22.0	0.50	"	7.9
1046	1.25	NT	6.91	2034	-116.4	22.0	0.49	"	7.7
1048	1.50	33.88	6.91	2034	-116.5	21.9	0.48	"	NT
1050	1.75	33.90	6.91	2033	-116.4	21.9	0.47	"	NT
1052	2.0	NT	6.91	2033	-116.4	21.9	0.46	"	7.5
1054	2.25	NT	6.92	2033	-116.4	21.9	0.46	"	7.1
1056	2.5	33.93	6.92	2033	-116.4	21.9	0.45	"	7.2

PURGING EQUIPMENT			SAMPLING EQUIPMENT		
<input type="checkbox"/>	Centrifugal Pump	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	Teflon Bailer
<input type="checkbox"/>	Submersible Pump	Disposable Pump	<input type="checkbox"/>	Submersible Pump	Disposable Bailer
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump		<input checked="" type="checkbox"/>	Other: Dedicated Tubing	

Remarks:

Completed By (Print Name): Dave Lubben

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project # : 091-NDLA-018/Task 5

Well ID: Gmw-68

Client/Station: Defense Fuel Support Point Norwalk

Well Diameter: 4"

Address : 15306 Norwalk Boulevard
Norwalk, California 90650

Date: 10-2-17

*DTW @ 33.28
DTW @ 33.30
PT @ 0.02 SH*

$$\frac{45.00}{TD} - \frac{33.28}{DTW} = \frac{11.72}{Water\ Column}$$

Pump Intake Depth, Screened Above Water Table:

$$\frac{33.28}{DTW} + 1/2 \left(\frac{5.86}{Water\ Column} \right) = \frac{39.14}{Pump\ Intake\ Depth}$$

Pump Intake Depth, Submerged Screen:

$$\frac{\text{---}}{Top\ of\ Screen\ Depth} + 1/2 \left(\frac{\text{---}}{Screen\ Length} \right) = \frac{39.00}{Pump\ Intake\ Depth}$$

Date Purged: 10-2-17 Start (24 Hour) _____ End (24 Hour) _____

Date Sampled: 10-2-17 Start (24 Hour) _____ End (24 Hour)

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/°C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
—	—	—	—	—	—	—	—	—	—
(The rest of the table is crossed out with a large blue X)									

PURGING EQUIPMENT				SAMPLING EQUIPMENT			
	Centrifugal Pump		Vac Truck		Centrifugal Pump		Teflon Bailer
	Submersible Pump		Disposable Pump		Submersible Pump		Disposable Bailer
①	Other: Low Flow Submersible Pump			①	Other: Dedicated Tubing		

Remarks: Recoverable
odorious, sock suspended in well. Record product level no observed.
No Parameters obtained.

Completed By (Print Name): Dave Lubben ✓

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5

Well ID: GMW-69

Client/Station: Defense Fuel Support Point Norwalk

Well Diameter: 4"

Address: 15306 Norwalk Boulevard
Norwalk, California 90650

Date: 10-2-17

25-45
SCR-INT

$$\frac{45.00}{\text{TD}} - \frac{32.99}{\text{DTW}} = \frac{12.01}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table:

$$\frac{32.99}{\text{DTW}} + 1/2 \left(\frac{6.01}{\text{Water Column}} \right) = \frac{39.00}{\text{Pump Intake Depth}}$$

Pump Intake Depth, Submerged Screen:

$$\frac{\text{---}}{\text{Top of Screen Depth}} + 1/2 \left(\frac{\text{---}}{\text{Screen Length}} \right) = \frac{39.00}{\text{Pump Intake Depth}}$$

Date Purged: 10-2-17 Start (24 Hour) 11¹⁰A End (24 Hour) 11³¹A
 Date Sampled: 10-2-17 Start (24 Hour) 11³⁰A End (24 Hour) _____

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
11 ¹²	.25	33.01	7.25	2005	-198.0	20.9	0.13	clear	23.7
11 ¹⁵	.50	33.04	7.14	2007	-206.1	20.9	0.13	"	25.0
11 ¹⁷	.75	NT	7.12	2006	-210.0	20.9	0.13	"	24.7
11 ¹⁹	1.0	NT	7.12	2008	-215.5	20.9	0.12	"	24.5
11 ²¹	1.25	33.10	7.12	2007	-218.5	20.9	0.12	"	24.8
11 ²³	1.50	33.11	7.12	2006	-219.7	20.9	0.12	"	25.1
11 ²⁵	1.75	NT	7.12	2006	-220.5	21.0	0.12	"	25.0
11 ²⁷	2.0	NT	7.11	2006	-221.2	21.0	0.11	"	NT
11 ²⁹	2.25	33.12	7.11	2007	-221.5	21.0	0.11	"	24.9
11 ³¹	2.50	33.12	7.11	2007	-222.1	21.0	0.11	"	24.6
 									
 									
 									

PURGING EQUIPMENT			SAMPLING EQUIPMENT				
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailor
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailor
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump		<input type="checkbox"/>	Other: Dedicated Tubing			

Remarks:

Dup-1 obtained here,

Completed By (Print Name): Dave Lubben

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5

Well ID: Gmw-69

Client/Station: Defense Fuel Support Point Norwalk

Well Diameter: 4"

Address: 15306 Norwalk Boulevard
Norwalk, California 90650

Date: 4th 10-25-17

25-45

$$\frac{45.00}{TD} - \frac{33.29}{DTW} = \frac{11.71}{Water Column}$$

Pump Intake Depth, Screened Above Water Table:

< OR >

Pump Intake Depth, Submerged Screen:

$$\frac{33.29}{DTW} + \frac{1}{2} \left(\frac{5.86}{Water Column} \right) = \frac{39.15}{Pump Intake Depth}$$

$$\frac{\text{Top of Screen Depth}}{+1/2 \left(\frac{\text{Screen Length}}{\text{Pump Intake Depth}} \right)} = \frac{39}{}$$

Date Purged: 10-25-17 Start (24 Hour) 3²⁵ End (24 Hour) 3⁴⁵
 Date Sampled: 10-25-17 Start (24 Hour) 3⁴⁵ End (24 Hour)

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/°C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
3 ²⁷	.45	33.32	7.32	2266	-131.8	26.5	2.16	clear	4.3
3 ²⁹	.50	33.34	7.32	2266	-131.6	26.5	2.13	"	4.0
3 ³¹	.75	NT	7.32	2264	-132.3	26.1	1.98	"	NT
3 ³³	1.0	NT	7.32	2263	-132.8	25.8	1.91	"	NT
3 ³⁵	1.25	33.36	7.32	2260	-132.9	25.8	1.93	"	3.7
3 ³⁷	1.50	33.36	7.31	2260	-133.3	25.7	1.89	"	3.9
3 ³⁹	1.75	NT	7.31	2258	-133.5	25.7	1.86	"	3.5
3 ⁴¹	2.0	NT	7.31	2259	-133.8	25.7	1.85	"	NT
3 ⁴³	2.25	33.35	7.30	2258	-133.8	25.6	1.82	"	3.3
3 ⁴⁵	2.5	33.35	7.30	2258	-133.9	25.6	1.80	"	3.0
 									
 									
 									

PURGING EQUIPMENT				SAMPLING EQUIPMENT			
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailer
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailer
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump			<input checked="" type="checkbox"/>	Other: Dedicated Tubing		

Remarks:

Completed By (Print Name): Dave Lubben ✓

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address: 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: GW-2
 Well Diameter: 6"
 Date: 10-5-17

63.00 - 34.53 = 28.47
 TD DTW Water Column

Pump Intake Depth, Screened Above Water Table:
34.53 + 1/2(14.24) = 48.77
 DTW Water Column Pump Intake Depth

Pump Intake Depth, Submerged Screen:
 +1/2() =
 Top of Screen Depth Screen Length Pump Intake Depth

Date Purged: 10-5-17 Start (24 Hour) 8:30 End (24 Hour) 8:50
 Date Sampled: 10-5-17 Start (24 Hour) 8:50 End (24 Hour) —

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/°C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
8 ³²	.25	NT	6.98	2271	-191.8	22.6	0.31	Brown floor	783.6
8 ³⁴	.50	"	6.97	2301	-184.0	22.5	0.30	Brown	129.6
8 ³⁶	.25	"	6.97	2300	-182.9	22.5	0.28	semiclear	106.2
8 ³⁶	1.0	"	6.97	2302	-183.1	22.5	0.27	semiclear	90.3
8 ⁴⁰	1.25	"	6.97	2304	-183.9	22.5	0.25	"	77.3
8 ⁴²	1.50	"	6.97	2304	-184.5	22.5	0.25	"	NT
8 ⁴⁴	1.75	"	6.96	2307	-184.9	22.5	0.23	"	43.2
8 ⁴⁶	2.0	"	6.96	2308	-185.5	22.5	0.21	"	36.7
8 ⁴⁸	2.25	"	6.96	2309	-185.9	22.5	0.21	"	33.1
8 ⁵⁰	2.50	"	6.96	2309	-186.2	22.5	0.20	"	29.1
 									

PURGING EQUIPMENT				SAMPLING EQUIPMENT			
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailor
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailor
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump			<input checked="" type="checkbox"/>	Other: Dedicated Tubing		

Remarks: Remove Pump to access well casing. System off

Completed By (Print Name): Dave Lubben

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address: 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: GW-3
 Well Diameter: 4"
 Date: 10-2-17

$$\frac{63.00}{\text{TD}} - \frac{34.66}{\text{DTW}} = \frac{28.34}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table:

$$\frac{34.66}{\text{DTW}} + \frac{1}{2} \left(\frac{14.17}{\text{Water Column}} \right) = \frac{48.83}{\text{Pump Intake Depth}}$$

Pump Intake Depth, Submerged Screen:

$$\frac{\text{Top of Screen Depth}}{\text{Top of Screen Depth}} + \frac{1}{2} \left(\frac{\text{Screen Length}}{\text{Screen Length}} \right) = \frac{48-48}{\text{Pump Intake Depth}}$$

Date Purged: 10-2-17 Start (24 Hour) 1:30 pm End (24 Hour) 1:51
 Date Sampled: 10-2-17 Start (24 Hour) 1:50 p End (24 Hour) _____

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/°C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
133	.25	34.69	7.03	2759	-132.4	23.5	0.53	clear	92.4
135	.50	34.72	7.01	2767	-133.6	23.4	0.41	"	46.1
137	.25	34.74	7.03	2768	-133.7	23.5	0.39	"	41.1
139	1.0	NT	7.03	2770	-133.6	23.5	0.38	"	34.4
141	1.25	NT	7.02	2770	-133.6	23.5	0.37	"	30.0
143	1.50	34.78	7.02	2771	-133.4	23.5	0.36	"	27.2
145	1.25	34.79	7.02	2771	-133.0	23.5	0.35	"	24.0
147	2.0	NT	7.01	2773	-133.1	23.5	0.35	"	20.8
149	2.25	NT	7.01	2774	-133.1	23.5	0.34	"	19.8
151	2.50	34.81	7.01	2775	-133.2	23.5	0.34	"	19.1
 									
 									
 									

PURGING EQUIPMENT			SAMPLING EQUIPMENT		
<input type="checkbox"/>	Centrifugal Pump		<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>
<input type="checkbox"/>	Submersible Pump		<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>
<input type="checkbox"/>	Other: Low Flow Submersible Pump		<input type="checkbox"/>	Other: Dedicated Tubing	<input type="checkbox"/>

Remarks: _____

Completed By (Print Name): Dave Lubben ✓

Signature: [Signature]

Reviewed By: DS

Date: 10/29/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address: 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: GW-3
 Well Diameter: 4"
 Date: 10-25-17

*25-60
SCREEN*

$$\frac{60.00}{TD} - \frac{34.77}{DTW} = \frac{25.23}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table:

$$\frac{34.77}{DTW} + \frac{1}{2} \left(\frac{12.62}{\text{Water Column}} \right) = \frac{47.39}{\text{Pump Intake Depth}}$$

< OR >

Pump Intake Depth, Submerged Screen:

$$- + \frac{1}{2} \left(\frac{\text{Screen Length}}{\text{Top of Screen Depth}} \right) = \frac{47.48}{\text{Pump Intake Depth}}$$

Date Purged: 10-25-17 Start (24 Hour) 11¹⁸ End (24 Hour) 11¹⁸
 Date Sampled: 10-25-17 Start (24 Hour) 11³⁸ End (24 Hour)

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
11 ²⁰	.25	NT	7.19	2888	-71.3	24.2	0.38	clear	51.4
11 ²²	.50	NT	7.17	2884	-73.9	24.2	0.28	"	48.7
11 ²⁴	.75	35.56	7.17	2884	-73.6	24.1	0.34	"	38.5
11 ²⁶	1.0	35.60	7.17	2887	-73.9	24.1	0.33	"	38.9
11 ²⁸	1.25	NT	7.17	2899	-77.2	24.1	0.26	"	39.1
11 ³⁰	1.50	NT	7.17	2903	-78.3	24.0	0.24	"	38.1
11 ³²	1.75	NT	7.17	2902	-80.2	23.8	0.20	"	39.3
11 ³⁴	2.0	NT	7.17	2900	-81.4	23.5	0.17	"	40.3
11 ³⁶	2.25	36.05	7.17	2898	-81.5	23.4	0.15	"	42.3
11 ³⁸	2.50	36.05	7.12	2894	-81.3	23.4	0.13	"	41.3

PURGING EQUIPMENT			SAMPLING EQUIPMENT		
<input type="checkbox"/>	Centrifugal Pump	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	Teflon Bailor
<input type="checkbox"/>	Submersible Pump	Disposable Pump	<input type="checkbox"/>	Submersible Pump	Disposable Bailor
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump		<input checked="" type="checkbox"/>	Other: Dedicated Tubing	

Remarks:

Completed By (Print Name): Dave Lubben

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address: 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: 6W-6
 Well Diameter: 4"
 Date: 10-5-17

$$\frac{63.00}{\text{TD}} - \frac{35.03}{\text{DTW}} = \frac{27.97}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table:

$$\frac{35.03}{\text{DTW}} + 1/2 \left(\frac{13.99}{\text{Water Column}} \right) = \frac{49.02}{\text{Pump Intake Depth}}$$

Pump Intake Depth, Submerged Screen:

$$\frac{\text{---}}{\text{Top of Screen Depth}} + 1/2 \left(\frac{\text{---}}{\text{Screen Length}} \right) = \frac{49.50'}{\text{Pump Intake Depth}}$$

Date Purged: 10-5-17 Start (24 Hour) 9⁵⁵ End (24 Hour) 10¹⁵
 Date Sampled: 10-5-17 Start (24 Hour) 10¹⁵ End (24 Hour) ---

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/°C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
9 ⁵⁷	.25	NT	7.13	772.0	-101.0	23.4	0.62	clear	65.5
9 ⁵⁹	.50	35.08	7.12	779.0	-103.9	23.2	0.57	"	18.3
10 ⁰¹	.75	35.10	7.11	783.0	-104.7	23.2	0.53	"	17.0
10 ⁰³	1.0	NT	7.08	788.0	-105.8	23.3	0.50	"	16.3
10 ⁰⁵	1.25	NT	7.05	792.0	-106.7	23.3	0.48	"	NT
10 ⁰⁷	1.50	35.13	7.03	794.0	-107.6	23.3	0.47	"	NT
10 ⁰⁹	1.75	35.15	7.02	795.0	-108.1	23.4	0.44	"	14.9
10 ¹¹	2.0	NT	7.02	795.0	-108.5	23.4	0.42	"	14.5
10 ¹³	2.25	35.16	7.01	795.0	-108.9	23.4	0.41	"	14.6
10 ¹⁵	2.50	35.16	7.01	796.0	-109.3	23.4	0.41	"	14.3

PURGING EQUIPMENT			SAMPLING EQUIPMENT		
<input type="checkbox"/>	Centrifugal Pump	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	Teflon Bailor
<input type="checkbox"/>	Submersible Pump	Disposable Pump	<input type="checkbox"/>	Submersible Pump	Disposable Bailor
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump		<input checked="" type="checkbox"/>	Other: Dedicated Tubing	

Remarks: DWP-5 obtained here.

Completed By (Print Name): Dave Lubben ✓

Signature: Dave Lubben

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project # : 091-NDLA-018/Task 5

Well ID: GW-8

Client/Station: Defense Fuel Support Point Norwalk

Well Diameter: 4"

Address : 15306 Norwalk Boulevard
Norwalk, California 90650

Date: 10-3-17

24-59

$$\frac{63.00}{\text{TD}} - \frac{34.88}{\text{DTW}} = \frac{27.12}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table:

< OR >

Pump Intake Depth, Submerged Screen:

$$\frac{34.88}{\text{DTW}} + 1/2 \left(\frac{13.56}{\text{Water Column}} \right) = \frac{48.44}{\text{Pump Intake Depth}}$$

$$\frac{\text{---}}{\text{Top of Screen Depth}} + 1/2 \left(\frac{\text{---}}{\text{Screen Length}} \right) = \frac{0.4849}{\text{Pump Intake Depth}}$$

Date Purged: 10-3-17 Start (24 Hour) 8¹⁰ End (24 Hour) 8³⁰

Date Sampled: 10-3-17 Start (24 Hour) 8³⁰ End (24 Hour) ---

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/°C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
8 ¹²	.25	34.91	7.07	1115	-85.6	21.7	0.55	light brown	320.1
8 ¹⁴	.50	34.94	7.07	1115	-86.9	21.7	0.52	"	326.0
8 ¹⁶	.75	NT	7.06	1114	-88.1	21.8	0.50	"	324.9
8 ¹⁸	1.0	NT	7.07	1112	-91.7	21.9	0.47	"	270.6
8 ²⁰	1.25	34.97	7.07	1112	-92.7	21.9	0.45	"	NT
8 ²²	1.50	34.98	7.07	1111	-93.1	21.9	0.43	"	NT
8 ²⁴	1.75	NT	7.07	1111	-93.5	21.9	0.41	"	285.1
8 ²⁶	2.0	NT	7.07	1111	-94.1	22.0	0.42	"	209.2
8 ²⁸	2.25	35.00	7.07	1110	-94.4	22.0	0.43	"	192.3
8 ³⁰	2.50	35.00	7.07	1110	-94.9	22.0	0.42	"	181.3
 									
 									
 									

PURGING EQUIPMENT				SAMPLING EQUIPMENT			
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailer
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailer
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump			<input checked="" type="checkbox"/>	Other: Dedicated Tubing		

Remarks:

Completed By (Print Name): Dave Lubben

Signature: [Signature]

Reviewed By: DS

Date: 10/29/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address: 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: GW-13
 Well Diameter: 6"
 Date: 10-5-17

25-65

$$\frac{67.00}{TD} - \frac{34.17}{DTW} = \frac{32.83}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table: < OR > **Pump Intake Depth, Submerged Screen:**

$$\frac{34.17}{DTW} + 1/2 \left(\frac{16.42}{\text{Water Column}} \right) = \frac{50.59}{\text{Pump Intake Depth}}$$

$$- + 1/2 (-) = \frac{50-51'}{\text{Pump Intake Depth}}$$

Date Purged: 10-5-17 Start (24 Hour) 1200 End (24 Hour) 190
 Date Sampled: 10-5-17 Start (24 Hour) 190 End (24 Hour) ---

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
122	1.25	34.21	7.13	2211	-142.1	24.3	0.51	Clear	3.1
124	.50	34.23	7.13	2214	-142.3	24.3	0.44	"	2.5
126	.75	NT	7.13	2218	-142.5	24.3	0.42	"	NT
128	1.0	NT	7.12	2216	-142.6	24.4	0.41	"	NT
130	1.25	34.26	7.12	2214	-142.8	24.4	0.41	"	2.7
132	1.50	34.28	7.12	2212	-143.0	24.4	0.40	"	2.1
134	1.75	34.30	7.11	2209	-143.2	24.4	0.38	"	NT
136	2.0	NT	7.11	2206	-143.7	24.4	0.36	"	2.3
138	2.5	NT	7.11	2207	-144.1	24.4	0.35	"	2.2
140	2.50	34.31	7.11	2202	-144.3	26.4	0.34	"	2.4

PURGING EQUIPMENT			SAMPLING EQUIPMENT				
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailer
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailer
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump		<input type="checkbox"/>	Other: Dedicated Tubing			

Remarks:

Completed By (Print Name): Dave Lubben

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project # : 091-NDLA-018/Task 5

Well ID: GW-15

Client/Station: Defense Fuel Support Point Norwalk

Well Diameter: 6"

Address : 15306 Norwalk Boulevard
Norwalk, California 90650

Date: 10-9-17

$$\frac{60.50}{TD} - \frac{34.45}{DTW} = \frac{26.05}{\text{Water Column}}$$

20.5-60.6
SCR-EMR

Pump Intake Depth, Screened Above Water Table: < OR >

$$\frac{34.45}{DTW} + 1/2 \left(\frac{13.03}{\text{Water Column}} \right) = \frac{47.48}{\text{Pump Intake Depth}}$$

Pump Intake Depth, Submerged Screen:

$$\frac{\text{Top of Screen Depth}}{\text{Top of Screen Depth}} + 1/2 \left(\frac{\text{Screen Length}}{\text{Screen Length}} \right) = \frac{47-48'}{\text{Pump Intake Depth}}$$

Date Purged: 10-9-17 Start (24 Hour) 12²⁵ End (24 Hour) 12⁴⁵ or 12⁴⁵P

Date Sampled: 10-9-17 Start (24 Hour) 12⁴⁵ End (24 Hour)

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/°C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
12 ²⁷	.25	NT	7.23	1456	-204.7	25.2	0.44	clear	10.4
12 ²⁹	.50	"	7.22	1456	-209.0	25.4	0.44	"	10.7
12 ³¹	.75	"	7.20	1455	-211.3	25.4	0.43	"	10.5
12 ³³	1.0	"	7.20	1455	-213.1	25.4	0.43	"	10.1
12 ³⁵	1.25	"	7.18	1453	-214.5	25.4	0.41	"	NT
12 ³⁷	1.50	"	7.17	1453	-215.3	25.4	0.39	"	NT
12 ³⁹	1.75	"	7.16	1453	-215.5	25.5	0.37	"	9.7
12 ⁴¹	2.0	"	7.15	1452	-215.9	25.5	0.36	"	9.9
12 ⁴³	2.25	"	7.14	1452	-216.2	25.5	0.36	"	9.6
12 ⁴⁵	2.5	pumped well white puice	7.14	1452	-216.5	25.5	0.35	"	9.1
 									
 									
 									

PURGING EQUIPMENT				SAMPLING EQUIPMENT			
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailer
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailer
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump			<input checked="" type="checkbox"/>	Other: Dedicated Tubing		

Remarks:

Completed By (Print Name): Dave Lubben

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project # : 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address : 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: GW-16
 Well Diameter: 6"
 Date: 10-3-17

20.5-60.5

$$\begin{array}{r} 63.00 \\ \text{TD} \end{array} - \begin{array}{r} 34.57 \\ \text{DTW} \end{array} = \begin{array}{r} 28.43 \\ \text{Water Column} \end{array}$$

Pump Intake Depth, Screened Above Water Table:

< OR >

Pump Intake Depth, Submerged Screen:

$$\begin{array}{r} 34.57 \\ \text{DTW} \end{array} + 1/2 \left(\begin{array}{r} 14.22 \\ \text{Water Column} \end{array} \right) = \begin{array}{r} 48.79 \\ \text{Pump Intake Depth} \end{array}$$

$$\begin{array}{r} \text{Top of Screen} \\ \text{Depth} \end{array} + 1/2 \left(\begin{array}{r} \text{Screen Length} \end{array} \right) = \begin{array}{r} \text{Pump Intake Depth} \end{array}$$

Date Purged: 10-3-17 Start (24 Hour) 1:55 End (24 Hour) 2:15
 Date Sampled: 10-3-17 Start (24 Hour) 2:15 End (24 Hour)

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/°C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
1:57	1.25	NT	7.19	2079	-176.9	24.1	0.23	clear	NT
1:59	.50	34.65	7.19	2079	-178.1	24.1	0.20	"	3.7
2:01	.75	34.65	7.19	2078	-180.3	24.1	0.18	"	3.5
2:03	1.0	34.69	7.19	2078	-181.5	24.1	0.16	"	NT
2:05	1.25	34.71	7.19	2078	-182.8	24.2	0.16	"	NT
2:07	1.50	NT	7.19	2080	-183.4	24.2	0.15	"	3.9
2:09	1.75	NT	7.19	2080	-183.8	24.2	0.15	"	3.4
2:11	2.0	34.75	7.19	2082	-184.3	24.2	0.15	"	3.1
2:13	2.25	34.77	7.19	2082	-184.6	24.2	0.14	"	NT
2:15	2.50	34.78	7.19	2083	-185.0	24.2	0.14	"	2.9
 									
 									
 									

PURGING EQUIPMENT				SAMPLING EQUIPMENT			
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailer
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailer
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump			<input checked="" type="checkbox"/>	Other: Dedicated Tubing		

Remarks: Active pump (off) in well.

Completed By (Print Name): Dave Lubben ✓

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project # : 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address : 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: MW-13
 Well Diameter: 4"
 Date: 10-3-17

18-48
 SCREENT

$$\frac{50.00}{\text{TD}} - \frac{36.48}{\text{DTW}} = \frac{13.52}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table: **< OR >**

$$\frac{36.48}{\text{DTW}} + 1/2 \left(\frac{6.76}{\text{Water Column}} \right) = \frac{43.24}{\text{Pump Intake Depth}}$$

Pump Intake Depth, Submerged Screen:

$$\frac{\text{Top of Screen Depth}}{\text{Top of Screen Depth}} + 1/2 \left(\frac{\text{Screen Length}}{\text{Screen Length}} \right) = \frac{43-44'}{\text{Pump Intake Depth}}$$

Date Purged: 10-3-17 Start (24 Hour) 115 End (24 Hour) 135
 Date Sampled: 10-3-17 Start (24 Hour) 135 End (24 Hour) _____

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
117	.25	NT	7.10	1600	-101.4	23.0	0.47	clear	NT
119	.50	36.54	7.10	1600	-103.0	23.0	0.46	"	5.0
121	.75	36.56	7.10	1601	-104.1	23.0	0.43	"	4.8
123	1.0	NT	7.10	1601	-107.9	23.1	0.40	"	NT
125	1.25	NT	7.10	1617	-131.6	23.1	0.39	"	4.6
127	1.50	36.62	7.09	1621	-140.3	23.1	0.37	"	3.6
129	1.75	36.63	7.09	1623	-142.9	23.1	0.34	"	3.9
131	2.00	NT	7.09	1625	-143.7	23.1	0.32	"	4.0
133	2.25	36.85	7.09	1626	-144.2	23.1	0.31	"	3.9
135	2.50	36.65	7.08	1628	-144.6	23.1	0.30	"	3.5

PURGING EQUIPMENT			SAMPLING EQUIPMENT		
<input type="checkbox"/>	Centrifugal Pump		<input type="checkbox"/>	Centrifugal Pump	Teflon Bailer
<input type="checkbox"/>	Submersible Pump		<input type="checkbox"/>	Submersible Pump	Disposable Bailer
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump		<input checked="" type="checkbox"/>	Other: Dedicated Tubing	

Remarks:

Completed By (Print Name): Dave Lubben ✓

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address: 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: MW-16
 Well Diameter: 4"
 Date: 10-4-17

18-48
SCR-INT

$$\frac{50.00}{\text{TD}} - \frac{35.26}{\text{DTW}} = \frac{14.74}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table:

$$\frac{35.26}{\text{DTW}} + 1/2 \left(\frac{7.37}{\text{Water Column}} \right) = \frac{42.63}{\text{Pump Intake Depth}}$$

Pump Intake Depth, Submerged Screen:

$$\frac{-}{\text{Top of Screen Depth}} + 1/2 \left(\frac{-}{\text{Screen Length}} \right) = \frac{42-43}{\text{Pump Intake Depth}}$$

Date Purged: 10-4-17 Start (24 Hour) 8:25 AM End (24 Hour) 8:45
 Date Sampled: 10-4-17 Start (24 Hour) 8:45 End (24 Hour) —

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/°C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
8:27	.25	35.30	6.75	1231	11.6	23.4	0.42	clear	3.0
8:29	.50	35.32	6.75	1221	13.5	23.5	0.39	"	3.3
8:31	.75	NT	6.75	1218	13.9	23.5	0.38	"	NT
8:33	1.0	NT	6.75	1213	14.6	23.5	0.37	"	3.8
8:35	1.25	35.36	6.75	1205	15.1	23.5	0.36	"	3.7
8:37	1.50	35.38	6.75	1199	15.5	23.5	0.35	"	3.9
8:39	1.75	NT	6.75	1195	15.9	23.6	0.35	"	NT
8:41	2.00	NT	6.75	1192	16.3	23.6	0.35	"	NT
8:43	2.25	35.40	6.75	1190	16.7	23.6	0.34	"	3.7
8:45	2.50	35.40	6.75	1188	16.9	23.6	0.34	"	3.5
 									
 									
 									

PURGING EQUIPMENT				SAMPLING EQUIPMENT			
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailer
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailer
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump			<input checked="" type="checkbox"/>	Other: Dedicated Tubing		

Remarks:

Completed By (Print Name): Dave Lubben ✓

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address: 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: mw-17
 Well Diameter: 4"
 Date: 10-3-17

18-48
SCR-INT

$$\frac{50.00}{TD} - \frac{35.78}{DTW} = \frac{14.22}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table: < OR > **Pump Intake Depth, Submerged Screen:**

$$\frac{35.78}{DTW} + 1/2 \left(\frac{7.11}{\text{Water Column}} \right) = \frac{42.89}{\text{Pump Intake Depth}}$$

43'
42.89'
DL

$$\frac{\text{---}}{\text{Top of Screen Depth}} + 1/2 \left(\frac{\text{---}}{\text{Screen Length}} \right) = \frac{43.94}{\text{Pump Intake Depth}}$$

43.94'
DL
43-44'

Date Purged: 10-3-17 Start (24 Hour) 2:30 P End (24 Hour) 2:50 P
 Date Sampled: 10-3-17 Start (24 Hour) 2:50 P End (24 Hour) ---

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
2:32	.25	35.82	7.34	1668	-35.3	23.6	0.51	clear	2.5
2:34	.50	35.84	7.32	1668	-31.2	23.6	0.46	"	2.6
2:36	.75	35.87	7.29	1669	-28.8	23.6	0.44	"	2.9
2:38	1.0	NT	7.27	1669	-27.5	23.6	0.42	"	NT
2:40	1.25	NT	7.26	1669	-26.4	23.6	0.39	"	NT
2:42	1.50	35.93	7.26	1669	-25.9	23.6	0.36	"	3.1
2:44	1.75	32.95	7.25	1669	-25.5	23.7	0.36	"	3.3
2:46	2.0	NT	7.25	1670	-25.1	23.6	0.35	"	3.6
2:48	2.25	32.96	7.25	1670	-24.8	23.5	0.33	"	3.5
2:50	2.50	32.96	7.24	1671	-24.5	23.5	0.34	"	3.5

PURGING EQUIPMENT				SAMPLING EQUIPMENT			
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailor
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailor
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump			<input checked="" type="checkbox"/>	Other: Dedicated Tubing		

Remarks:

Completed By (Print Name): Dave Lubben ✓

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address: 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: MW-22(MID)
 Well Diameter: 4"
 Date: 10-5-17

$$\frac{57.90}{TD} - \frac{40.16}{DTW} = \frac{17.74}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table:

$$\frac{40.16}{DTW} + 1/2 \left(\frac{8.87}{\text{Water Column}} \right) = \frac{49.03}{\text{Pump Intake Depth}}$$

Pump Intake Depth, Submerged Screen:

$$\frac{\text{---}}{\text{Top of Screen Depth}} + 1/2 \left(\frac{\text{---}}{\text{Screen Length}} \right) = \frac{49.50}{\text{Pump Intake Depth}}$$

Date Purged: 10-5-17 Start (24 Hour) 1:55 End (24 Hour) 2:15
 Date Sampled: 10-5-17 Start (24 Hour) 2:15 End (24 Hour) ---

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
1:57	0.25	NT	7.16	1622	-119.6	24.1	0.53	clear	NT
1:59	0.50	40.23	7.13	1622	-121.3	24.1	0.50	"	9.3
2:01	0.75	40.25	7.13	1623	-122.9	24.0	0.48	"	9.0
2:03	1.00	40.28	7.12	1623	-123.9	24.0	0.48	"	8.4
2:05	1.25	40.29	7.12	1623	-124.8	24.0	0.45	"	8.6
2:07	1.50	NT	7.10	1623	-125.5	24.0	0.43	"	NT
2:09	1.75	NT	7.10	1623	-125.9	24.0	0.42	"	NT
2:11	2.0	40.30	7.11	1624	-126.5	24.0	0.41	"	8.1
2:13	2.25	40.31	7.10	1624	-126.9	23.9	0.40	"	7.9
2:15	2.50	40.31	7.10	1624	-127.2	23.9	0.40	"	7.5

PURGING EQUIPMENT			SAMPLING EQUIPMENT		
<input type="checkbox"/>	Centrifugal Pump	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	Teflon Bailor
<input type="checkbox"/>	Submersible Pump	Disposable Pump	<input type="checkbox"/>	Submersible Pump	Disposable Bailor
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump		<input checked="" type="checkbox"/>	Other: Dedicated Tubing	

Remarks: _____

Completed By (Print Name): Dave Lubben ✓

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project # : 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address : 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: MW-24
 Well Diameter: 4"
 Date: 10-2-17

14-44
SCRIPT

$$\frac{47.00}{TD} - \frac{36.24}{DTW} = \frac{10.76}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table: **< OR >** **Pump Intake Depth, Submerged Screen:**

$$\frac{36.24}{DTW} + 1/2(\frac{5.38}{\text{Water Column}}) = \frac{41.62}{\text{Pump Intake Depth}}$$

$$\frac{\text{Top of Screen Depth}}{\text{Top of Screen Depth}} + 1/2(\frac{\text{Screen Length}}{\text{Screen Length}}) = \frac{41.62 - 42.}{\text{Pump Intake Depth}}$$

Date Purged: 10-2-17 Start (24 Hour) 2³⁵ End (24 Hour) 2⁵⁶
 Date Sampled: 10-2-17 Start (24 Hour) 2⁵⁵ End (24 Hour)

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
2 ³⁸	.25	36.28	7.04	1324	-7.2	24.3	0.57	clear	39.2
2 ⁴⁰	.50	36.32	7.03	1324	-7.3	24.2	0.49	"	33.2
2 ⁴²	.75	36.35	7.02	1325	-6.9	24.2	0.49	"	35.3
2 ⁴⁴	1.0	NT	7.01	1325	-6.1	24.3	0.47	"	NT
2 ⁴⁶	1.25	NT	7.00	1326	-5.8	24.3	0.45	"	NT
2 ⁴⁸	1.50	36.38	6.99	1326	-6.2	24.3	0.44	"	33.2
2 ⁵⁰	1.75	36.40	6.99	1326	-6.5	24.3	0.42	"	31.9
2 ⁵²	2.00	36.41	6.98	1327	-6.9	24.3	0.42	"	NT
2 ⁵⁴	2.25	36.40	6.98	1327	-7.3	24.3	0.42	"	30.4
2 ⁵⁶	2.50	36.41	6.97	1328	-7.7	24.3	0.41	"	29.8

PURGING EQUIPMENT			SAMPLING EQUIPMENT		
<input type="checkbox"/>	Centrifugal Pump	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	Teflon Bailor
<input type="checkbox"/>	Submersible Pump	Disposable Pump	<input type="checkbox"/>	Submersible Pump	Disposable Bailor
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump		<input checked="" type="checkbox"/>	Other: Dedicated Tubing	

Remarks:

Completed By (Print Name): Dave Lubben

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5

Well ID: MW-24

Client/Station: Defense Fuel Support Point Norwalk

Well Diameter: 4"

Address: 15306 Norwalk Boulevard
Norwalk, California 90650

Date: 10-25-17

$$\frac{47.00}{TD} - \frac{36.25}{DTW} = \frac{10.75}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table:

< OR >

Pump Intake Depth, Submerged Screen:

$$\frac{36.25}{DTW} + \frac{1}{2} \left(\frac{5.38}{\text{Water Column}} \right) = \frac{41.63}{\text{Pump Intake Depth}}$$

$$\frac{12:27 \text{ DU}}{\text{Top of Screen Depth}} + \frac{1}{2} \left(\frac{310 \text{ DU}}{\text{Screen Length}} \right) = \frac{42-43}{\text{Pump Intake Depth}}$$

Date Purged: 10-25-17 Start (24 Hour) 12:27 DU End (24 Hour) 12:45

Date Sampled: 10-25-17 Start (24 Hour) 310 End (24 Hour) 310

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
12 ²⁷	.25	NT	7.09	1403	-9.3	24.1	0.59	clear	69.3
12 ²⁹	.50	36.29	7.09	1405	-9.7	24.1	0.53	"	73.2
12 ³¹	.75	36.32	7.07	1405	-9.5	24.1	0.52	"	NT
12 ³³	1.0	NT	7.07	1406	-9.6	24.1	0.51	"	NT
12 ³⁵	1.25	NT	7.06	1407	-9.7	24.2	0.50	"	76.3
12 ³⁷	1.50	36.35	7.06	1407	-9.4	24.2	0.48	"	69.5
12 ³⁹	1.75	36.35	7.06	1407	-9.5	24.2	0.48	"	68.5
12 ⁴¹	2.0	NT	7.06	1406	-9.5	24.2	0.47	"	62.3
12 ⁴³	2.25	36.34	7.05	1406	-9.7	24.2	0.47	"	63.5
12 ⁴⁵	2.5	36.35	7.06	1406	-9.9	24.0	0.46	"	62.1
 									
 									
 									

PURGING EQUIPMENT			SAMPLING EQUIPMENT				
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailor
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailor
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump		<input type="checkbox"/>	Other: Dedicated Tubing			

Remarks:

Completed By (Print Name): Dave Lubben

Signature: [Signature]

Reviewed By: DS

Date: 10/29/17

The Source Group, Inc.

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address: 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: mw-26
 Well Diameter: 4"
 Date: 10-4-17

$47.30 - 36.13 = 11.17$ $\frac{23.5 - 13.5}{SCREEN}$

TD DTW Water Column

Pump Intake Depth, Screened Above Water Table:

< OR >

Pump Intake Depth, Submerged Screen:

$36.13 + 1/2(5.59) = 41.72$

DTW Water Column Pump Intake Depth

$\text{---} + 1/2(\text{---}) = 41.42$

Top of Screen Depth Screen Length Pump Intake Depth

Date Purged: 10-4-17 Start (24 Hour) 2⁰⁰ End (24 Hour) 2⁴⁵
 Date Sampled: 10-4-17 Start (24 Hour) 2⁴⁵ End (24 Hour) ---

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/°C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
2 ²²	0.25	36.17	6.79	1593	-164.8	23.7	0.31	clear	1.9
2 ²⁹	0.50	36.20	6.79	1593	-164.9	23.7	0.31	"	1.8
2 ³⁰	0.75	NT	6.79	1593	-165.1	23.7	0.30	"	1.8
2 ³³	1.0	NT	6.78	1592	-165.4	23.7	0.29	"	NT
2 ³⁵	1.25	36.25	6.78	1592	-165.9	23.8	0.29	"	NT
2 ³⁷	1.50	36.25	6.77	1591	-166.4	23.8	0.29	"	1.8
2 ³⁹	1.75	36.27	6.76	1591	-166.7	23.8	0.28	"	2.0
2 ⁴¹	2.0	36.27	6.76	1591	-166.9	23.8	0.27	"	2.1
2 ⁴³	2.25	36.29	6.75	1591	-167.3	23.8	0.27	"	NT
2 ⁴⁵	2.5	36.30	6.75	1590	-167.6	23.8	0.26	"	1.8

PURGING EQUIPMENT				SAMPLING EQUIPMENT			
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailer
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailer
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump			<input checked="" type="checkbox"/>	Other: Dedicated Tubing		

Remarks: DWP-4 obtained here

Completed By (Print Name): Dave Lubben ✓

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

MW-27

Project #: 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address: 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: ~~GMW-43~~ ~~GMW-44~~ DV
 Well Diameter: 4"
 Date: 10-4-17

20-50
 SCR-INT

$$\frac{50.50}{TD} - \frac{37.61}{DTW} = \frac{12.89}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table:

$$\frac{37.61}{DTW} + 1/2 \left(\frac{6.45}{\text{Water Column}} \right) = \frac{44.06}{\text{Pump Intake Depth}}$$

Pump Intake Depth, Submerged Screen:

$$\frac{\text{Top of Screen Depth}}{\text{Top of Screen Depth}} + 1/2 \left(\frac{\text{Screen Length}}{\text{Screen Length}} \right) = \frac{44.45}{\text{Pump Intake Depth}}$$

Date Purged: 10-4-17 Start (24 Hour) 150 End (24 Hour) 210
 Date Sampled: 10-4-17 Start (24 Hour) 210 End (24 Hour) —

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
152	.25	NT	7.31	1966	-152.4	25.5	0.51	clear	20.6
154	.50	37.65	7.31	1966	-153.0	25.5	0.46	"	13.6
156	.75	37.62	7.30	1965	-153.6	25.3	0.43	"	9.7
158	1.0	37.70	7.23	1965	-154.2	25.1	0.41	"	9.1
200	1.25	NT	7.18	1964	-154.7	25.1	0.40	"	NT
202	1.50	NT	7.16	1964	-154.9	25.1	0.39	"	NT
204	1.75	37.24	7.16	1964	-155.2	25.1	0.39	"	10.3
206	2.0	37.24	7.16	1964	-155.0	25.0	0.40	"	9.8
208	2.25	NT	7.14	1963	-154.7	25.0	0.40	"	9.6
210	2.5	37.25	7.12	1963	-154.5	25.0	0.40	"	9.1
(The following rows are crossed out with a blue line)									

PURGING EQUIPMENT				SAMPLING EQUIPMENT			
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailor
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailor
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump			<input checked="" type="checkbox"/>	Other: Dedicated Tubing		

Remarks:

Completed By (Print Name): Dave Lubben ✓

Signature: *Dave Lubben*

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address: 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: mw-29
 Well Diameter: 4"
 Date: 10-4-17

17.5-47.5

$52.40 - 37.64 = 14.76$

TD DTW Water Column

Pump Intake Depth, Screened Above Water Table:

$37.64 + 1/2(7.38) = 45.02$

DTW Water Column Pump Intake Depth

Pump Intake Depth, Submerged Screen:

+1/2() =

Top of Screen Depth Screen Length Pump Intake Depth

Date Purged: 10-4-17 Start (24 Hour) 115 End (24 Hour) 135
 Date Sampled: 10-4-17 Start (24 Hour) 135 End (24 Hour)

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/°C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
117	.25	NT	6.92	1137	-156.1	25.9	0.42	clear	8.4
119	.50	37.70	6.92	1137	-156.5	25.9	0.39	"	7.6
121	.75	37.72	6.90	1137	-157.1	25.9	0.36	"	7.9
123	1.0	37.74	6.89	1136	-157.5	25.9	0.34	"	NT
125	1.25	NT	6.89	1136	-157.9	26.0	0.34	"	NT
127	1.50	NT	6.88	1135	-158.3	26.0	0.31	"	7.1
129	1.75	37.77	6.85	1134	-158.7	26.0	0.30	"	7.3
131	2.0	37.79	6.87	1134	-159.0	26.0	0.30	"	NT
133	2.25	37.80	6.87	1134	-159.4	26.0	0.30	"	6.9
135	2.50	37.80	6.87	1133	-159.8	26.0	0.31	"	7.1

PURGING EQUIPMENT				SAMPLING EQUIPMENT			
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailor
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailor
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump			<input checked="" type="checkbox"/>	Other: Dedicated Tubing		

Remarks: _____

Completed By (Print Name): Dave Lubben ✓
 Reviewed By: DS

Signature: Dave Lubben
 Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address: 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: PZ-3
 Well Diameter: 2"
 Date: 10-10-17

65.00 - 34.42 = 30.58
 TD DTW Water Column

Pump Intake Depth, Screened Above Water Table:
34.42 + 1/2(15.29) = 49.71
 DTW Water Column Pump Intake Depth

<OR> Pump Intake Depth, Submerged Screen:
 - + 1/2(-) = 49.50
 Top of Screen Depth Screen Length Pump Intake Depth

Date Purged: 10-10-17 Start (24 Hour) 9:40 AM End (24 Hour) 10⁰⁰
 Date Sampled: 10-10-17 Start (24 Hour) 10⁰⁰ End (24 Hour) —

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/°C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
942	.25	NT	6.66	1466	-137.8	25.2	0.37	clear	33.2
944	.50	34.49	6.64	1466	-138.4	25.4	0.36	"	36.1
946	.75	34.51	6.63	1467	-138.7	25.4	0.35	"	34.3
948	1.0	34.52	6.63	1467	-138.9	25.4	0.34	"	NT
950	1.25	NT	6.63	1467	-139.4	25.4	0.34	"	NT
952	1.50	NT	6.62	1469	-139.8	25.5	0.33	"	27.3
954	1.75	34.55	6.62	1471	-140.2	25.5	0.33	"	26.8
956	2.0	34.55	6.62	1471	-140.3	25.5	0.32	"	NT
958	2.25	NT	6.61	1472	-140.6	25.5	0.32	"	26.1
10 ⁰⁰	2.5	34.55	6.61	1472	-140.7	25.5	0.32	"	25.1
 									
 									
 									

PURGING EQUIPMENT			SAMPLING EQUIPMENT				
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailor
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailor
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump		<input type="checkbox"/>	Other: Dedicated Tubing			

Remarks:

Completed By (Print Name): Dave Lubben

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project # : 091-NDLA-018/Task 5

Well ID: TF-8

Client/Station: Defense Fuel Support Point Norwalk

Well Diameter: 4"

Address : 15306 Norwalk Boulevard
Norwalk, California 90650

Date: 10-5-17

25-60
CR-INT

$$\frac{63.00}{TD} - \frac{33.53}{DTW} = \frac{29.47}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table:

$$\frac{33.53}{DTW} + 1/2 \left(\frac{14.79}{\text{Water Column}} \right) = \frac{48.32}{\text{Pump Intake Depth}}$$

Pump Intake Depth, Submerged Screen:

$$\frac{\text{---}}{\text{Top of Screen Depth}} + 1/2 \left(\frac{\text{---}}{\text{Screen Length}} \right) = \frac{48-49'}{\text{Pump Intake Depth}}$$

Date Purged: 10-5-17 Start (24 Hour) 1035 End (24 Hour) 1055

Date Sampled: 10-5-17 Start (24 Hour) 1055 End (24 Hour) ---

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/°C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
1037	.25	NT	6.81	1388	-124.7	24.2	0.46	clear	10.8
1039	.50	33.59	6.80	1390	-124.4	24.1	0.45	"	14.3
1041	.75	33.61	6.79	1390	-124.0	24.1	0.43	"	13.1
1043	1.0	33.64	6.79	1390	-124.2	24.1	0.42	"	12.3
1045	1.25	NT	6.79	1391	-123.9	24.1	0.41	"	10.6
1047	1.50	NT	6.78	1392	-123.6	24.2	0.39	"	NT
1049	1.75	33.68	6.78	1392	-123.2	24.2	0.38	"	NT
1051	2.0	33.70	6.77	1392	-123.4	24.2	0.36	"	10.1
1053	2.25	NT	6.77	1393	-123.6	24.2	0.36	"	9.9
1055	2.50	33.70	6.77	1393	-123.8	24.2	0.35	"	9.6
 									
 									
 									

PURGING EQUIPMENT				SAMPLING EQUIPMENT			
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailer
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailer
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump			<input checked="" type="checkbox"/>	Other: Dedicated Tubing		

Remarks:

Completed By (Print Name): Dave Lubben

Signature: [Signature]

Reviewed By: DS

Date: 10/29/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address: 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: TF-9R
 Well Diameter: 4"
 Date: 10-5-17

50.00 TD $-$ 37.05 DTW $=$ 12.95 Water Column

20-50
SCR-INT

Pump Intake Depth, Screened Above Water Table:
 37.05 DTW $+ 1/2($ 6.48 Water Column $) =$ 43.53 Pump Intake Depth

Pump Intake Depth, Submerged Screen:
 $-$ Top of Screen Depth $+ 1/2($ $-$ Screen Length $) =$ $43-44'$ Pump Intake Depth

Date Purged: 10-5-17 Start (24 Hour) 2³⁰ End (24 Hour) 2⁵⁰
 Date Sampled: 10-5-17 Start (24 Hour) 2⁵⁰ End (24 Hour) —

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/°C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
2 ³²	.25	37.08	7.28	2213	-119.6	23.8	0.43	clear	13.2
2 ³⁴	.50	37.11	7.25	2213	-123.6	23.8	0.41	"	12.5
2 ³⁶	.75	37.14	7.25	2213	-125.3	23.8	0.40	"	NT
2 ³⁸	1.0	NT	7.25	2212	-126.9	23.7	0.38	"	NT
2 ⁴⁰	1.25	NT	7.24	2212	-128.1	23.7	0.36	"	12.3
2 ⁴²	1.50	37.17	7.24	2213	-128.9	23.7	0.35	"	11.1
2 ⁴⁴	1.75	37.18	7.24	2212	-129.5	23.7	0.33	"	10.5
2 ⁴⁶	2.0	NT	7.24	2211	-130.1	23.7	0.31	"	NT
2 ⁴⁸	2.25	37.20	7.23	2211	-130.4	23.6	0.30	"	9.5
2 ⁵⁰	2.50	37.20	7.23	2211	-130.9	23.6	0.29	"	9.2
 									
 									
 									

PURGING EQUIPMENT			SAMPLING EQUIPMENT		
<input type="checkbox"/>	Centrifugal Pump	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	Teflon Bailer
<input type="checkbox"/>	Submersible Pump	Disposable Pump	<input type="checkbox"/>	Submersible Pump	Disposable Bailer
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump		<input checked="" type="checkbox"/>	Other: Dedicated Tubing	

Remarks: DUP-6 obtained here.

Completed By (Print Name): Dave Lubben ✓

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5

Well ID: TF-16

Client/Station: Defense Fuel Support Point Norwalk

Well Diameter: _____

Address: 15306 Norwalk Boulevard
Norwalk, California 90650

25-60

Date: 10-10-18

$$\frac{63.00}{TD} - \frac{33.17}{DTW} = \frac{29.83}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table:

< OR >

Pump Intake Depth, Submerged Screen:

$$\frac{33.17}{DTW} + 1/2 \left(\frac{14.92}{\text{Water Column}} \right) = \frac{48.09}{\text{Pump Intake Depth}}$$

$$\frac{\text{—}}{\text{Top of Screen Depth}} + 1/2 \left(\frac{\text{—}}{\text{Screen Length}} \right) = \frac{48-49}{\text{Pump Intake Depth}}$$

Date Purged: 10-10-17 Start (24 Hour) 1045 End (24 Hour) 1105

Date Sampled: 10-10-17 Start (24 Hour) 1105 End (24 Hour) —

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/°C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
1047	.25							clear	
1049	.50		<i>Product Pump in well.</i>					"	
1051	.75							"	
1053	1.0							"	
1055	1.25							"	
1057	1.50							"	
1059	1.75							"	
1101	2.0							"	
1103	2.25							"	
1105	2.50							"	

PURGING EQUIPMENT			SAMPLING EQUIPMENT		
<input type="checkbox"/>	Centrifugal Pump	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	Teflon Bailer
<input type="checkbox"/>	Submersible Pump	Disposable Pump	<input type="checkbox"/>	Submersible Pump	Disposable Bailer
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump		<input checked="" type="checkbox"/>	Other: Dedicated Tubing	

Remarks: pneumatic pump in well.

Completed By (Print Name): Dave Lubben ✓

Signature: *Dave Lubben*

Reviewed By: DS

Date: 10/29/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5

Well ID: TF-18

Client/Station: Defense Fuel Support Point Norwalk

Well Diameter: _____

Address: 15306 Norwalk Boulevard
Norwalk, California 90650

Date: 10-10-17

$$\frac{50.50}{\text{TD}} - \frac{33.12}{\text{DTW}} = \frac{17.38}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table:

$$\frac{33.12}{\text{DTW}} + 1/2 \left(\frac{8.69}{\text{Water Column}} \right) = \frac{41.81}{\text{Pump Intake Depth}}$$

Pump Intake Depth, Submerged Screen:

$$\frac{\text{---}}{\text{Top of Screen Depth}} + 1/2 \left(\frac{\text{---}}{\text{Screen Length}} \right) = \frac{41-42'}{\text{Pump Intake Depth}}$$

Date Purged: 10-10-17 Start (24 Hour) 9:10 End (24 Hour) 9:30

Date Sampled: 10-10-17 Start (24 Hour) 9:30 End (24 Hour) ---

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/°C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
9:12	0.25							clear	
9:14	0.50								
9:16	0.75								
9:18	1.0								
9:20	1.25								
9:22	1.50								
9:24	1.75								
9:26	2.0								
9:28	2.25								
9:30	2.50								

PURGING EQUIPMENT				SAMPLING EQUIPMENT			
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailer
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailer
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump			<input checked="" type="checkbox"/>	Other: Dedicated Tubing		

Remarks: Product pump in well.

Completed By (Print Name): Dave Lubben

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address: 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: TF-20R
 Well Diameter: _____
 Date: 10-10-17

25-60
SCR-INT

$$\frac{63.00}{TD} - \frac{33.41}{DTW} = \frac{29.59}{Water\ Column}$$

Pump Intake Depth, Screened Above Water Table:

$$\frac{33.41}{DTW} + 1/2 \left(\frac{14.80}{Water\ Column} \right) = \frac{48.21}{Pump\ Intake\ Depth}$$

Pump Intake Depth, Submerged Screen:

$$\frac{---}{Top\ of\ Screen\ Depth} + 1/2 \left(\frac{---}{Screen\ Length} \right) = \frac{48-49'}{Pump\ Intake\ Depth}$$

Date Purged: 10-10-17 Start (24 Hour) 8:30 End (24 Hour) 8:50
 Date Sampled: 10-10-17 Start (24 Hour) 8:50 End (24 Hour) ---

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/°C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
8:32	1.25	NT	6.61	1438	-161.3	22.4	0.58	clear	20.8
8:34	2.0	33.47	6.61	1438	-162.0	22.4	0.50	"	22.8
8:36	2.5	33.49	6.62	1436	-162.8	+22.4	0.45	"	23.0
8:38	1.0	NT	6.62	1435	-163.7	22.5	0.42	"	NT
8:40	1.25	NT	6.62	1434	-164.5	22.5	0.39	"	NT
8:42	1.50	33.52	6.62	1433	-164.9	22.5	0.37	"	21.3
8:44	1.25	33.52	6.63	1432	-165.4	22.5	0.38	"	20.1
8:46	2.0	NT	6.63	1432	-165.7	22.6	0.38	"	NT
8:48	2.25	NT	6.64	1431	-166.1	22.6	0.36	"	18.2
8:50	2.5	33.54	6.64	1431	-166.3	22.6	0.35	"	18.0

PURGING EQUIPMENT				SAMPLING EQUIPMENT			
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailor
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailor
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump			<input checked="" type="checkbox"/>	Other: Dedicated Tubing		

Remarks: _____

Completed By (Print Name): Dave Lubben

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address: 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: TF-21
 Well Diameter: 4"
 Date: 10-9-17

SCR-INT
25-60

$$\frac{63.00}{TD} - \frac{36.13}{DTW} = \frac{29.87}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table:

$$\frac{36.13}{DTW} + 1/2 \left(\frac{14.94}{\text{Water Column}} \right) = \frac{51.07}{\text{Pump Intake Depth}}$$

< OR > Pump Intake Depth, Submerged Screen:

$$\frac{\text{Top of Screen Depth}}{\text{Top of Screen Depth}} + 1/2 \left(\frac{\text{Screen Length}}{\text{Screen Length}} \right) = \frac{51-52'}{\text{Pump Intake Depth}}$$

Date Purged: 10-9-17 Start (24 Hour) 9:40 End (24 Hour) 10:00
 Date Sampled: 10-9-17 Start (24 Hour) 10:00 End (24 Hour) _____

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/°C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
9:42	.25	NT	7.11	1515	-151.5	24.2	0.42	clear	NT
9:44	.50	36.19	7.03	1515	-152.6	24.5	0.40	"	8.8
9:46	.25	36.22	6.98	1516	-152.7	24.5	0.39	"	7.9
9:48	1.0	NT	6.97	1516	-152.9	24.5	0.38	"	8.4
9:50	1.25	NT	6.95	1517	-153.2	24.5	0.37	"	7.8
9:52	1.50	36.26	6.94	1518	-153.5	24.5	0.37	"	NT
9:54	1.25	36.27	6.93	1519	-153.9	24.5	0.35	"	NT
9:56	2.0	NT	6.93	1521	-154.3	24.5	0.33	"	8.7
9:58	2.25	NT	6.92	1522	-154.5	24.5	0.33	"	8.5
10:00	2.5	36.26	6.92	1524	-154.3	24.5	0.32	"	8.4
 									
 									
 									

PURGING EQUIPMENT				SAMPLING EQUIPMENT			
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailer
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailer
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump			<input checked="" type="checkbox"/>	Other: Dedicated Tubing		

Remarks:

Completed By (Print Name): Dave Lubben ✓

Signature: [Signature]

Reviewed By: DS

Date: 10/27/17

GROUNDWATER SAMPLE FIELD DATA SHEET

Project #: 091-NDLA-018/Task 5
 Client/Station: Defense Fuel Support Point Norwalk
 Address: 15306 Norwalk Boulevard
 Norwalk, California 90650

Well ID: TF-24
 Well Diameter: 4"
 Date: 10-5-17

$$\frac{65.00}{\text{TD}} - \frac{36.20}{\text{DTW}} = \frac{28.80}{\text{Water Column}}$$

Pump Intake Depth, Screened Above Water Table:

< OR >

Pump Intake Depth, Submerged Screen:

$$\frac{36.25}{\text{DTW}} + 1/2 \left(\frac{14.40}{\text{Water Column}} \right) = \frac{50.65}{\text{Pump Intake Depth}}$$

$$\frac{\text{Top of Screen Depth}}{\text{Top of Screen Depth}} + 1/2 \left(\frac{\text{Screen Length}}{\text{Screen Length}} \right) = \frac{50.100}{\text{Pump Intake Depth}}$$

Date Purged: 10-5-17 Start (24 Hour) 12²⁰ End (24 Hour) 12⁴⁰

Date Sampled: 10-5-17 Start (24 Hour) 12⁴⁰ End (24 Hour)

TIME (24 Hr)	VOLUME (gallons)	DEPTH TO WATER (feet btc)	pH (units)	E.C. (sM/cm)	ORP (mV)	TEMPERATURE (°F/C)	D.O. (mg/L)	COLOR (visual)	TURBIDITY (visual or NTU)
12 ²²	.25	NT	7.27	1165	-152.9	23.9	0.44	NT	NT
12 ²⁴	.50	36.26	7.22	1165	-153.5	24.1	0.41	clear	9.1
12 ²⁶	.75	36.28	7.18	1165	-153.9	24.2	0.40	"	8.7
12 ²⁸	1.0	NT	7.16	1165	-154.3	24.2	0.40	"	8.2
12 ³⁰	1.25	NT	7.15	1166	-154.7	24.3	0.38	"	8.3
12 ³²	1.50	36.32	7.15	1166	-154.9	24.3	0.36	"	NT
12 ³⁴	1.75	36.34	7.14	1166	-155.3	24.3	0.34	"	NT
12 ³⁶	2.0	36.34	7.14	1166	-155.5	24.3	0.33	"	8.8
12 ³⁸	2.25	NT	7.13	1166	-155.2	24.3	0.32	"	9.1
12 ⁴⁰	2.50	36.35	7.13	1167	-155.4	24.3	0.30	"	8.7

PURGING EQUIPMENT			SAMPLING EQUIPMENT				
<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Vac Truck	<input type="checkbox"/>	Centrifugal Pump	<input type="checkbox"/>	Teflon Bailor
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Pump	<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Disposable Bailor
<input checked="" type="checkbox"/>	Other: Low Flow Submersible Pump		<input type="checkbox"/>	Other: Dedicated Tubing			

Remarks:

Completed By (Print Name): Dave Lubben

Signature: [Signature]

Reviewed By: DC

Date: 10/27/17

INSTRUMENT CALIBRATION LOG
Second Semiannual 2017 Monitoring Event
Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Instrument	ID Number	Date/Time of Test	Standards Used	Instrument Reading	Calibration to: or Within 10%:	Temperature	Initials
PSI-DDS		10-2-17 300	7.0 pH	7.03	Y	23.1	DL
"		10-2-17 "	4.0 pH	4.10	Y	23.1	DL
"		10-2-17 "	10.0 pH	9.93	Y	23.1	DL
"		10-2-17 "	1413 ms/cs	1417	Y	23.1	DL
"		10-3-17 245	7.0 pH	7.04	Y	23.3	DL
"		10-3-17 "	4.0 pH	4.08	Y	23.3	DL
"		10-3-17 "	10.0 pH	9.95	Y	23.3	DL
"		10-3-17 "	1413 ms/cs	1419	Y	23.3	DL
"		10-3-17 300	7.0 pH	7.02	Y	23.0	DL
"		10-4-17	4.0 pH	4.10	Y	23.0	DL
"		10-4-17	10.0 pH	9.92	Y	23.0	DL
"		10-4-17	1413 ms/cs	1418	Y	23.0	DL
"		10-5-17	7.0 pH	7.04	Y	22.9	DL
"		10-5-17	4.0 pH	4.09	Y	22.9	DL
"		10-5-17	10.0 pH	9.94	Y	22.9	DL
"		10-5-17	1413 ms/cs	1419 ms.	Y	22.9	DL
"		10-6-17	7.0 pH	7.08	Y	23.1	DL
"		10-6-17	4.0 pH	4.08	Y	23.1	DL

INSTRUMENT CALIBRATION LOG
Second Semiannual 2017 Monitoring Event
Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Instrument	ID Number	Date/Time of Test	Standards Used	Instrument Reading	Calibration to: or Within 10%:	Temperature	Initials
YSI-DDS		10-6-17	10 pH	9.95	Y	23.1	DL
"		10-6-17	1413 ms/Sec	1420	Y	23.1	DL
"		10-9-17	7.0 pH	7.06	Y	23.3	DL
"		10-9-17	4.0 pH	4.09	Y	23.3	DL
"		10-9-17	10.0 pH	9.94	Y	23.3	DL
"		10-9-17	1413 ms/Sec	1419 ms/Sec	Y	23.3	DL
"		10-10-17	7.0 pH	7.03	Y	23.0	DL
"		10-10-17	4.0 pH	4.09	Y	23.0	DL
"		10-10-17	10.0 pH	9.92	Y	23.0	DL
"		10-10-17	1413 ms/Sec	1421 ms/Sec	Y	23.0	DL

INSTRUMENT CALIBRATION LOG
Second Semiannual 2017 Monitoring Event
Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Instrument	ID Number	Date/Time of Test	Standards Used	Instrument Reading	Calibration to: or Within 10%:	Temperature	Initials
YSI-DDS		10-25-17 7 ²⁰	7.0	7.03	Y	22.9	DL
YSI-DDS		10-25-17 7 ²⁰	4.0	4.02	Y	22.9	DL
YSI-DDS		10-25-17 7 ²⁰	10.0	9.96	Y	22.9	DL
YSI-DDS		10-25-17 7 ²⁰	1413	1416	Y	22.9	DL
YSI-DDS		10-25-17 4 ¹⁰	7.0	7.04	Y	23.0	DL
YSI-DDS		10-25-17 4 ¹⁰	4.0	4.02	Y	23.0	DL
YSI-DDS		10-25-17 4 ¹⁰	10.0	9.94	Y	23.0	DL
YSI-DDS		10-25-17 4 ¹⁰	1413	1418 mslcs	Y	23.0	DL

NORWALK WELL GAUGING DATA

TECHNICIAN: HH/PH

DATE: 10/2/17

CLIENT Charmhill

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Last Events SPH Thickness	Depth to water (ft.) 4Q15	Depth to water (ft.) 2Q16	Depth to water (ft.) 4Q16	Depth to water (ft.) 2Q17	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOB	Time
EXP-1	4					59.22		61.31	60.97	60.98	129.11		1144
EXP-2	4					60.23		61.88	61.39	61.97	128.33		1211
EXP-3	4					58.43		60.52	59.52	60.72	123.11		1126
EXP-4	4					60.00		62.71	61.41	62.03	115.93		1343
EXP-5	4					53.27		55.40	54.26	54.73	113.18		1528
GMW-1	4		unable to locate			31.89	36.16	35.80					
GMW-10	4				1.55	32.96	34.47	35.10	31.15	33.48	48.34		0720
GMW-11	4									32.89			1205 (stop)
GMW-13	4					31.16		33.20	30.92	33.86	49.60		1136
GMW-14R	4								35.32	34.40	52.29		1126
GMW-2													
GMW-22	4						39.73	37.70	34.47	38.45	61.28		1024
GMW-23	4				1.49	36.10	36.35	36.15	33.40	35.42	57.88		1346
GMW-24	4				0.55	32.80	38.83	39.31	35.64	39.33			1015
GMW-25	4					35.44	38.99	38.70	35.23	39.22	52.94		1026
GMW-26	4					35.38	34.56	35.12	31.90	35.00	48.02		0937
GMW-27	4					31.73				37.68	52.80		0929
GMW-28	4					32.00	35.86	35.81	32.10	35.78	49.23		1036
GMW-29	4	sheen odor	35.87	0.18	2.06	31.27	36.15	36.00	33.80	36.05			1012
GMW-3	4		unable to locate										
GMW-30	6				0.37	32.92	36.22	36.30	32.53	36.21	49.59		1036
GMW-36	4					33.55		35.05	32.96	34.10 35.53	51.95		1125
GMW-37	4					34.11		35.10	33.68	35.33 33.53	53.54		1123 1130
GMW-38	4					32.33		34.10	31.83	33.55 32.82	53.04		1130 1100
GMW-39	4					31.87		33.20	31.57	32.82	50.60		1100
GMW-4R	4								36.15	31.57	51.33		1114
GMW-8	4					31.13		33.47	30.74	33.40	43.68		1220

SEE RELEASE REPORTING PROCEDURE REMINDER IN SOW
 Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555

NORWALK WELL GAUGING DATA

TECHNICIAN: HH/PH DATE: 10/2/17 CLIENT: KMOP

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Last Events SPH Thickness	Depth to water (ft.) 4Q15	Depth to water (ft.) 2Q16	Depth to water (ft.) 4Q16	Depth to water (ft.) 2Q17	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or (TOC)	Time
GMW-9	5					34.61	36.10	38.02	33.32	38.43	50.20		1006
GMW-O-1	4					28.98	30.66	31.20	29.51	31.20	49.18		1305
GMW-O-10	4					31.17	32.65	33.13	31.47	31.96	50.04		1402
GMW-O-11	4				0.16	33.08	33.39		30.12	33.31	—		1425
GMW-O-12	4		32.00	1.20	4.20	34.65	32.40	34.20	32.90	33.20	—		1438
GMW-O-14	4					30.98	32.62	34.08	31.15	33.75	49.86		1539
GMW-O-15	4	San / Odor	30-33	1.59	0.13	31.91		31.00	29.65	31.92	—		0753
GMW-O-16	4					30.41		32.00	30.49	31.47	49.91		1421
GMW-O-17	4					29.95		31.10	30.20	30.70	39.65		1520
GMW-O-18	4	San / Odor	31-30	0.02	0.03	30.90			31.83	31.32	—		0834
GMW-O-19	4					30.63		32.20	30.94	31.70	40.06		0820
GMW-O-2	4					29.07	30.44	31.30	30.00	31.39	49.24		1358
GMW-O-20	4					31.36	32.54	33.12	29.70	33.03	37.90		1433
GMW-O-21	4					31.43	33.20	33.45	30.48	33.45	43.04		1529
GMW-O-23	4					32.82	34.43	34.90	30.88	34.70	39.42		1415
GMW-O-24	4					30.95		32.39	28.60	31.90 San / Odor	45.19 31.32		1625
GMW-O-3	4					28.94	30.60	31.45	29.40	31.55	47.81		1446
GMW-O-4	4					28.57	30.55	30.90	28.90	30.44	49.28		1510
GMW-O-5	4					29.09	30.98	31.43	29.13	31.08	48.76		1516
GMW-O-6	4					27.50		29.00	28.60	29.11	49.56		1600
GMW-O-7	4					26.63		28.10	28.40	28.18	49.65		1555
GMW-O-8	4					27.53		29.51	29.20	29.85	49.37		1311
GMW-O-9	4					30.33	31.88	33.03	31.25	33.25	50.04		1306
GMW-SF-7	4					32.03		33.72	31.47	33.17	43.21		1121
GMW-SF-8	4					33.28		35.01	32.39	34.54	43.60		1112
GWR-1R	4								33.77	37.26	52.60		0925
GWR-3	6					35.98	38.60	39.20	34.88	38.92	50.58	Y	1020

SEE RELEASE REPORTING PROCEDURE REMINDER IN SOW
 Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555

NORWALK WELL GAUGING DATA

 TECHNICIAN: HH/PH

 DATE: 10/2/17

 CLIENT: Kmeep

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Last Events SPH Thickness	Depth to water (ft.) 4Q15	Depth to water (ft.) 2Q16	Depth to water (ft.) 4Q16	Depth to water (ft.) 2Q17	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOS	Time
HL-2	4					34.08		35.17	34.45	37.24	38.80		1050
HL-3	4					34.15	36.84	37.22	34.06	37.15	41.24		1236
MW-12	4							35.84	32.97	35.85	52.01		
MW-15R	4								34.41	34.58	52.29		1140
MW-18 (MID)	4					36.99	40.70	40.93	37.50	40.26	65.59		0738
MW-19 (MID)	4					38.26		40.60	38.62	40.50	62.00		1246
MW-20 (MID)	4					37.73		38.22	37.30	38.44	56.54		1201
MW-21 (MID)	4					34.77		37.83	34.74	37.85	62.14		1234
MW-6	4					34.47		35.13	34.93	35.97	52.05		1205
MW-7	4					35.36		32.90	35.26	37.74	53.60		1241
MW-8	4					32.69		34.20	32.21	33.64 30.68	51.90		1118
MW-9	4					34.05		33.56	31.80	36.45	51.78		1120
MW-O-1	4					8.37	DRY	DRY	DRY	DRY	08.77		1603
MW-O-2	6				0.06	32.39	35.49	34.30	30.91	34.67	41.51		1524
MW-SF-1	6					36.35	40.40	39.20	35.75	39.98	41.76		0845
MW-SF-10	4					DRY	DRY	DRY	DRY	DRY	29.64		0846
MW-SF-11	4					37.42	39.56	40.05	35.91	40.09	43.78		1018
MW-SF-12	4					36.78	39.03	39.45	35.12	39.31	43.94		1002
MW-SF-13	4					35.16	34.72	34.20	30.40	34.52	38.80		0958
MW-SF-14	4					35.25	36.21	DRY	35.40	DRY	36.03		0921
MW-SF-15	4					37.90	39.70	39.56	35.39	39.40	43.10		0925
MW-SF-16	4					34.56	39.60	39.35	35.20	DRY	34.82		0900
MW-SF-2	4					36.32	39.27	39.60	35.78	39.68	42.48		0935
MW-SF-3	4					35.18	39.43	39.40	35.15	39.20	-		0918
MW-SF-4	4					36.12	40.80	41.05	36.67	40.07	40.70		0855
MW-SF-5	6					36.82	DRY	DRY	36.88	DRY	33.09		0939
MW-SF-6	6					34.28	38.10	38.45	34.03	37.89	41.53		0942

SEE RELEASE REPORTING PROCEDURE REMINDER IN SOW
 Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555

NORWALK WELL GAUGING DATA

TECHNICIAN: HH/PH

DATE: 10/2/17

CLIENT KMEP

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Last Events SPH Thickness	Depth to water (ft.) 4Q15	Depth to water (ft.) 2Q16	Depth to water (ft.) 4Q16	Depth to water (ft.) 2Q17	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Time
MW-SF-9	4	UNABLE			TO LOCATE	31.44	34.14						
PW-1	4					DRY		DRY	DRY	34.40	50.00		
PW-2	4					DRY		DRY	DRY	DRY	25.84		0948
PW-3	4					31.08		33.23	31.60	33.26	50.05		0757
PZ-10	3					31.42	DRY	DRY	DRY	DRY	28.97		0919
PZ-2	4					31.18	34.72	34.67	31.13	34.65	48.92		1300
PZ-5	4					30.50		31.00	30.07	31.45	37.90		1620
VEW-1	4					DRY		DRY	DRY	DRY	12.44		0930
VEW-2	4					DRY		DRY	DRY	DRY	26.60		0913
WCW-1	4					29.90		31.50	31.00	31.74	53.04		1550
WCW-10	4					30.00		31.81	32.13	32.52	55.24		1543
WCW-11	4					32.02		33.31	33.65	34.14	60.02		1326
WCW-12	4					33.32		39.60	35.00	35.22	60.00		1332
WCW-13	4					34.75		36.03	36.83	36.64	60.39		1338
WCW-14	4					35.71		36.70	37.40	37.60	58.77		1357
WCW-2	4					32.52		33.60	33.62	33.94	52.31		1319
WCW-3	4					33.38		34.35	34.70	34.79	50.50		1402
WCW-4	4					35.10		36.10	36.61	36.79	51.63		1351
WCW-5	4					30.77		32.20	31.21	32.34	41.03		1539
WCW-6	4					32.82		34.00	33.51	34.22	51.00		1314
WCW-7	4					34.05		34.22	33.53	35.34 36.80	49.54		1419 1413
WCW-8	4					34.78		35.70	36.00	36.14	51.04		1406
WCW-9	4					34.91		35.29	35.10	36.49	51.93	X	1413

SEE RELEASE REPORTING PROCEDURE REMINDER IN SOW
 Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555

**Attachment 7.3-1
 Well Inspection Checklist**

WELL INSPECTION CHECKLIST

Site - City, County, State

WELL NAME	AS-BUILT TOTAL DEPTH (TD)	ACCESS UNOBSTRUCTED? (Y/N)	WELL EASILY VISIBLE? (Y/N)	VAULT, WELL, OR CASING CLEARLY LABELED? (Y/N)	WELL, VAULT, PAD, OR CASING FREE OF VISIBLE DAMAGE, SCOUR, OR SETTLING? (Y/N)	WELL SECURED PROPERLY WITH WATER-TIGHT WELL CAP AND LOCK? (Y/N)	WELL VAULT DRY AND FREE OF DEBRIS? (Y/N)	TD CONSISTENT WITH AS-BUILT TD? (Y/N)	COMMENTS
MW-12		Y	Y	Y	Y	Y	Y		
GMW-11		Y	Y	Y	Y	Y	Y		finger in well AM
MW-21 (incl)		Y	Y	Y	Y	Y	Y		
HL-3		Y	Y	Y	Y	Y	Y		
PZ-2		Y	Y	Y	Y	Y	Y		3/8 bolts missing / tabs broken
GMW-0-1		Y	Y	Y	Y	Y	Y		2/2 tabs stripped
GMW-0-8		Y	Y	Y	Y	Y	Y		2/2 tabs stripped / broken
GMW-0-2		Y	Y	Y	Y	Y	Y		
GMW-0-10		Y	Y	Y	Y	Y	Y		2/2 bolts missing
GMW-0-9		Y	Y	Y	Y	Y	Y		3/2 bolts missing
GMW-0-23		Y	Y	Y	Y	Y	Y		
GMW-0-11		Y	Y	Y	Y	Y	Y		
GMW-0-26		Y	Y	Y	Y	Y	Y		
GMW-0-12		Y	Y	Y	Y	Y	Y		
GMW-0-3		Y	Y	Y	Y	Y	Y		
MW-0-2		Y	Y	Y	Y	Y	Y		
GMW-0-21		Y	Y	Y	Y	Y	Y		
GMW-0-14		Y	Y	Y	Y	Y	Y		2/2 tabs/bolts missing
MW-0-7		Y	Y	Y	Y	Y	Y		2/2 tabs/bolts missing
GMW-0-6		Y	Y	Y	Y	Y	Y		2/2 tabs missing
PZ-5		Y	Y	Y	Y	Y	Y		
GMW-0-24		Y	Y	Y	Y	Y	Y		1/2 tab broken
PZ-3		Y	Y	Y	Y	Y	Y		3/8 bolts missing

Performed by: HH

Date Performed: 10/2/07

Attachment 7.3-1
 Well Inspection Checklist

WELL INSPECTION CHECKLIST

Site - City, County, State

WELL NAME	AS-BUILT TOTAL DEPTH (TD)	ACCESS UNOBSTRUCTED? (Y/N)	WELL EASILY VISIBLE? (Y/N)	VAULT, WELL, OR CASING CLEARLY LABELED? (Y/N)	WELL, VAULT, PAD, OR CASING FREE OF VISIBLE DAMAGE, SCOUR, OR SETTLING? (Y/N)	WELL SECURED PROPERLY WITH WATER-TIGHT WELL CAP AND LOCK? (Y/N)	WELL VAULT DRY AND FREE OF DEBRIS? (Y/N)	TD CONSISTENT WITH AS-BUILT TD? (Y/N)	COMMENTS
MW-SF-1		Y	Y	Y	Y	Y	Y		
MW-SF-16		Y	Y	Y	Y	Y	Y		
VEW-2		Y	Y	Y	Y	Y	Y		well lid + lock missing - stand pipe
MW-SF-3		Y	Y	Y	Y	Y	Y		
MW-SF-14		Y	Y	Y	Y	Y	Y		
MW-SF-15		Y	Y	Y	Y	Y	Y		
VEW-1		Y	Y	Y	Y	Y	Y		
MW-SF-2		Y	Y	Y	Y	Y	Y		
MW-SF-5		Y	Y	Y	Y	Y	Y		
MW-SF-6		Y	Y	Y	Y	Y	Y		
MW-SF-13		Y	Y	Y	Y	Y	Y		
MW-SF-12		Y	Y	Y	Y	Y	Y		
GMW-9		Y	Y	Y	Y	Y	Y		
GMW-24		Y	Y	Y	Y	Y	Y		
MW-SF-11		Y	Y	Y	Y	Y	Y		missing Lid & stand pipe
GWR-3		Y	Y	Y	Y	Y	Y		
GMW-22		Y	Y	Y	Y	Y	Y		
GMW-25		Y	Y	Y	Y	Y	Y		
GMW-28		Y	Y	Y	Y	Y	Y		3/5 bolts missing / no label
MW-9		Y	Y	Y	Y	Y	Y		
GMW-4R		Y	Y	Y	Y	Y	Y		
GMW-14R		Y	Y	Y	Y	Y	Y		
MW-15R		Y	Y	Y	Y	Y	Y		

Performed by: HH

Date Performed: 1/2/12

Attachment 7.3-1
 Well Inspection Checklist

WELL INSPECTION CHECKLIST

Site - City, County, State

WELL NAME	AS-BUILT TOTAL DEPTH (TD)	ACCESS UNOBSTRUCTED? (Y/N)	WELL EASILY VISIBLE? (Y/N)	VAULT, WELL, OR CASING CLEARLY LABELED? (Y/N)	WELL, VAULT, PAD, OR CASING FREE OF VISIBLE DAMAGE, SCOUR, OR SETTLING? (Y/N)	WELL SECURED PROPERLY WITH WATER-TIGHT WELL CAP AND LOCK? (Y/N)	WELL VAULT DRY AND FREE OF DEBRIS? (Y/N)	TD CONSISTENT WITH AS-BUILT TD? (Y/N)	COMMENTS
P2-10		Y	Y	Y	Y	Y	Y		missing 2/2 bolts
GMW-26		Y	Y	Y	Y	Y	Y		missing 3/7 bolts
PW-2		Y	Y	Y	Y	Y	Y		no lid, no cap
EXP-4		Y	Y	Y	Y	Y	Y		1/2 tabs broken
EXP-5		Y	Y	Y	Y	Y	Y		1/2 bolts missing
NCW-5		Y	Y	Y	Y	Y	Y		
NCW-6		Y	Y	Y	Y	Y	Y		no well cap lock
EXP-1		Y	Y	Y	Y	Y	Y		
EXP-2		Y	Y	Y	Y	Y	Y		
EXP-3		Y	Y	Y	Y	Y	Y		
EXP-4		Y	Y	Y	Y	Y	Y		
EXP-5		Y	Y	Y	Y	Y	Y		
GMW-13		Y	Y	Y	Y	Y	Y		
GMW-23		Y	Y	Y	Y	Y	Y		
GMW-29		Y	Y	Y	Y	Y	Y		
GMW-30		Y	Y	Y	Y	Y	Y		
GMW-37		Y	Y	Y	Y	Y	Y		
GMW-38		Y	Y	Y	Y	Y	Y		
GMW-39		Y	Y	Y	Y	Y	Y		
GMW-8		Y	Y	Y	Y	Y	Y		
GMW-0-15		Y	Y	Y	Y	Y	Y		
GMW-0-16		Y	Y	Y	Y	Y	Y		
GMW-0-17		Y	Y	Y	Y	Y	Y		

Performed by: HP

Date Performed: 10/2/17

Attachment 7.3-1
 Well Inspection Checklist

WELL INSPECTION CHECKLIST

Site - City, County, State

WELL NAME	AS-BUILT TOTAL DEPTH (TD)	ACCESS UNOBSTRUCTED? (Y/N)	WELL EASILY VISIBLE? (Y/N)	VAULT, WELL, OR CASING CLEARLY LABELED? (Y/N)	WELL, VAULT, PAD, OR CASING FREE OF VISIBLE DAMAGE, SCOUR, OR SETTLING? (Y/N)	WELL SECURED PROPERLY WITH WATER-TIGHT WELL CAP AND LOCK? (Y/N)	WELL VAULT DRY AND FREE OF DEBRIS? (Y/N)	TD CONSISTENT WITH AS-BUILT TD? (Y/N)	COMMENTS
GMW-0-18		Y	Y	Y	Y	Y	Y		
GMW-0-19		Y	Y	Y	Y	Y	Y		
GMW-0-9		Y	Y	Y	Y	Y	Y		
GMW-0-5		Y	Y	Y	Y	Y	Y		
GMW-SF-7		Y	Y	Y	Y	Y	Y		
GMW-SF-8		Y	Y	Y	Y	Y	Y		
GMW-12		Y	Y	Y	Y	Y	Y		
MW-19(MD)		Y	Y	Y	Y	Y	Y		
MW-20(MD)		Y	Y	Y	Y	Y	Y		
MW-6		Y	Y	Y	Y	Y	Y		
MW-7		Y	Y	Y	Y	Y	Y		
MW-8		Y	Y	Y	Y	Y	Y		
MW-0-1		Y	Y	Y	Y	Y	Y		
MW-SF-10		Y	Y	Y	Y	Y	Y		
MW-SF-4		Y	Y	Y	Y	Y	Y		

Performed by: HP

Date Performed: 10/2/17

LOW FLOW WELL MONITORING DATA SHEET

Project #: 1710 02- P01	Client: KMEP
Sampler: HP	Start Date: 10/3/2017
Well I.D.: EXP-4	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 115.93	Depth to Water: Pre: 62.03 Post: 62.11
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump Monsoon Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0923 Flow Rate: 300 ml/min Pump Depth: 110'

Time	Temp. (<u>C</u> or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to water
0926	21.6	7.25	1446	43	2.00	4.5	900	62.11
0929	21.9	7.23	1449	10	0.87	14.1	1800	62.11
0932	21.7	7.21	1448	9	0.32	15.7	2700	62.11
0935	22.0	7.19	1446	10	0.37	23.8	3600	62.11
0938	22.0	7.20	1445	10	0.37	22.7	4500	62.11
0941	22.0	7.20	1445	9	0.33	22.2	5400	62.11

Did well dewater? Yes <u>No</u>	Amount actually evacuated: <u>5400 mL</u>
Sampling Time: <u>0942</u>	Sampling Date: <u>10/3/2017</u>
Sample I.D.: <u>EXP-4</u>	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	<u>Other: See C₁O₁C₁</u>
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-RD1	Client: KMEP
Sampler: HP	Start Date: 10/3/2017
Well I.D.: EXP-5	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 113.18	Depth to Water: Pre: <u>54.73</u> Post: <u>54.85</u>
Depth to Free Product: <input checked="" type="checkbox"/>	Thickness of Free Product (feet): <input checked="" type="checkbox"/>
Referenced to: <u>PVC</u> Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump Monsoon Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1015 Flow Rate: 400 mL/min Pump Depth: 110'

Time	Temp. (<u>C</u> or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to water
1018	22.1	7.49	1002	21	2.67	78.5	1200	54.82
1021	24.0	7.34	1008	9	2.50	-3.4	2400	54.84
1024	23.8	7.27	1009	9	1.69	-35.6	3600	54.84
1027	24.2	7.25	1007	9	1.75	-47.5	4800	54.84
1030	24.4	7.26	1012	10	1.69	-53.0	6000	54.85
1033	24.3	7.26	1010	11	1.72	-56.8	7200	54.85
1036	24.2	7.27	1011	10	1.77	-58.3	8400	54.85

Did well dewater? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>8400</u>
Sampling Time: <u>1038</u>	Sampling Date: <u>10/3/2017</u>
Sample I.D.: <u>EXP-5</u>	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	<u>Other</u> <u>see C.O.C.</u>
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-#41	Client: KMEP
Sampler: M	Start Date: 10/5/17
Well I.D.: GMW-1	Well Diameter: 2 3 4 6 8
Total Well Depth: /	Depth to Water: Pre: / Post: /
Depth to Free Product: /	Thickness of Free Product (feet): /
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other
 Start Purge Time: _____ Flow Rate: _____ Pump Depth: _____

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
	—	UNABLE	TO LOCATE	WELL			—	
		—	NO	SAMPLE	COLLECTED			

Did well dewater? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: /
Sampling Time: /	Sampling Date: /
Sample I.D.: /	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other: /
Equipment Blank I.D.: @ _____ Time	Duplicate I.D.: /

LOW FLOW WELL MONITORING DATA SHEET

Project #: 17002-R01	Client: KMEP
Sampler: HP	Start Date: 10/5/2017
Well I.D.: GMW-4R	Well Diameter: 2 3 ④ 6 8
Total Well Depth: 51.33	Depth to Water: Pre: 34.38 Post: 34.49
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump Monsoon
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0831 Flow Rate: 400 ml/min Pump Depth: 46'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0834	23.6	6.83	1284	78	0.36	-74.6	1200	34.48
0837	23.8	6.94	744	80	0.29	-90.7	2400	34.48
0840	23.4	6.99	723	76	0.29	-96.8	3600	34.48
0843	23.7	7.03	731	76	0.26	-100.9	4800	34.48
0846	24.1	7.06	725	76	0.28	-104.0	6000	34.49

Did well dewater? Yes No Amount actually evacuated: 6L

Sampling Time: 0848 Sampling Date: 10/5/2017

Sample I.D.: GMW-4R Laboratory: Alpha Analytical

Analyzed for: TPHg TPHfp VOC's MTBE Other: see C.O.C.

Equipment Blank I.D.: @ _____ Duplicate I.D.: DUP-3

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-44/	Client: KMEP
Sampler: M	Start Date: 10/5/17
Well I.D.: GMLW-8	Well Diameter: 2 3 4 <u>6</u> 8
Total Well Depth: 43.68	Depth to Water: Pre: 33.48 Post: 33.62
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1149 Flow Rate: 150 ml/min Pump Depth: 40'

Time	Temp. (C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to water
1152	22.2	7.46	836	71000	0.48	-0.2	450	33.60
1155	22.4	7.41	831	71000	0.43	-24.8	800	33.60
1158	22.1	7.40	827	71000	0.41	-39.6	1350	33.60
1201	23.0	7.35	827	71000	0.38	-39.0	1860	33.62
1204	22.6	7.33	824	71000	0.39	-39.8	2250	33.62
1207	22.3	7.33	818	71000	0.36	-43.5	2700	33.62
1210	22.1	7.33	817	71000	0.32	-46.4	3150	33.62
1213	22.0	7.32	815	71000	0.34	-46.7	3600	33.62

Did well dewater? Yes No Amount actually evacuated: 3600 ml

Sampling Time: 1214 Sampling Date: 10/5/17

Sample I.D.: GMLW-8 Laboratory: Alpha Analytical

Analyzed for: TP(H)g TPHfp VOC's MTBE Other: PHD

Equipment Blank I.D.: @ _____ Time _____ Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-RD1	Client: KMEP
Sampler: HP	Start Date: 10/5/2017
Well I.D.: GMW-9	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 50.20	Depth to Water: Pre: 37.79 Post: 37.95
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>AVD</u> Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump Monsoon
 Sampling Method: ~~Dedicated Tubing~~ New Tubing Other _____
 Start Purge Time: 1329 Flow Rate: 150 ~~100~~ ml/min Pump Depth: 45'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1332	30.0	7.19	2772	62	0.68	-71.0	450	37.95
1335	29.8	7.19	2781	42	0.52	-70.6	900	37.95
1338	28.8	7.18	2789	36	0.49	-76.1	1350	37.95
1341	28.6	7.17	2807	41	0.22	-89.4	1800	37.95
1344	28.5	7.18	2800	37	0.17	-90.1	2250	37.95
1347	28.3	7.18	2792	38	0.16	-90.6	2700	37.95
1350	28.4	7.18	2786	37	0.14	-90.8	3150	37.95

Did well dewater? Yes No Amount actually evacuated: 3150 mL

Sampling Time: 1351 Sampling Date: 10/5/2017

Sample I.D.: GMW-9 Laboratory: Alpha Analytical

Analyzed for: TPHg TPHfp VOC's MTBE Other: see C.O.C.

Equipment Blank I.D.: @ _____ Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-H41	Client: KMEP
Sampler: RN	Start Date: 10/4/17
Well I.D.: BMW-13	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 49.60	Depth to Water: Pre: 32.74 ^W Post: 32.90
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC <input checked="" type="checkbox"/> Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other
 Start Purge Time: 1254 Flow Rate: 150 ml/min Pump Depth: 45'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>L</u>)	Depth to water
1257	23.9	7.47	685	21	0.44	-9.4	450	32.90
1300	24.7	7.42	684	20	0.44	-16.1	900	32.90
1303	24.3	7.39	684	22	0.53	-17.2	1350	32.90
1306	24.4	7.37	684	23	0.41	-22.9	1800	32.90
1309	24.7	7.37	685	23	0.41	-24.4	2250	32.90
1312	24.9	7.37	688	22	0.39	-24.9	2700	32.90

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: 2700 mL
Sampling Time: 1313	Sampling Date: 10/4/17
Sample I.D.: BMW-13	Laboratory: Alpha Analytical
Analyzed for: TPH <input checked="" type="checkbox"/> TPHfp <input checked="" type="checkbox"/> VOC's <input checked="" type="checkbox"/> MTBE	Other: <u>TRH D</u>
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-201	Client: KMEP
Sampler: HP	Start Date: 10/5/2017
Well I.D.: GMMW-14R	Well Diameter: 2 3 ④ 6 8
Total Well Depth: 52.29	Depth to Water: Pre: 34.22 Post: 34.35
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: <input checked="" type="checkbox"/> VCO Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump Marsoon
 Sampling Method: Dedicated Tubing New Tubing Other

Start Purge Time: 0913 Flow Rate: 300 mL/min Pump Depth: 47'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0916	22.1	7.23	1220	69	0.73	-70.4	900	34.33
0919	22.7	7.20	1229	91	0.51	-84.5	1800	34.35
0922	22.6	7.19	1230	117	0.43	-87.6	2700	34.35
0925	22.8	7.19	1230	125	0.32	-93.0	3600	34.35
0928	22.9	7.20	1229	129	0.31	-94.5	4500	34.35
0931	22.9	7.20	1228	133	0.29	-95.2	5400	34.35

Did well dewater? Yes No Amount actually evacuated: 5.4 L

Sampling Time: 0933 Sampling Date: 10/5/2017

Sample I.D.: GMMW-14R Laboratory: Alpha Analytical

Analyzed for: TPHg TPHfp VOC's MTBE Other: see C.O.C.

Equipment Blank I.D.: @ Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-R01	Client: KMEP
Sampler: <u>HP</u>	Start Date: <u>10/6/2017</u>
Well I.D.: <u>GMW-23</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth: <u>57.88</u>	Depth to Water: Pre: <u>35.42</u> Post: <u>35.63</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>live</u> Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump Monsoon
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1358 Flow Rate: 150 ml/min Pump Depth: 52'

Time	Temp. (<u>C</u> or °F)	pH	Cond. (mS/cm or <u>uS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to water
1401	29.5	7.22	3184	196	2.18	-270.3	450	35.62
1404	26.8	7.20	3191	148	1.32	-310.6	900	35.62
1407	27.0	7.19	3179	132	1.26	-338.6	1350	35.62
1410	25.8	7.16	3180	143	1.16	-344.5	1800	35.63
1413	25.6	7.14	3177	235	1.06	-348.0	2250	35.63
1416	25.4	7.13	3170	227	0.95	-354.0	2700	35.63

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: <u>2.7 L</u>
Sampling Time: <u>1418</u>	Sampling Date: <u>10/6/2017</u>
Sample I.D.: <u>GMW-23</u>	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	<u>(Other) see L.O.C.</u>
Equipment Blank I.D.: @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-R01	Client: KMEP
Sampler: HP	Start Date: 10/5/2017
Well I.D.: GMW-25	Well Diameter: 2 3 ④ 6 8
Total Well Depth: 52.94	Depth to Water: Pre: 38.72 Post: 38.77
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump Monsoon
 Sampling Method: ~~Dedicated Tubing~~ New Tubing Other _____
 Start Purge Time: 1425 Flow Rate: 200 mL/min Pump Depth: 47'

Time	Temp. (C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1428	29.0	7.15	2526	565	0.64	-143.7	600	38.75
1431	29.1	7.16	2523	130	0.45	-144.3	1200	38.77
1434	29.0	7.17	2535	106	0.20	-146.3	1800	38.77
1437	29.4	7.18	2579	106	0.12	-148.8	2400	38.77
1440	28.9	7.18	2576	105	0.10	-150.0	3000	38.77

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: 3 L
Sampling Time: 1442	Sampling Date: 10/5/2017
Sample I.D.: GMW-25	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other: see C.O.C.
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-HH1	Client: KMEP
Sampler: RA	Start Date: 10/5/17
Well I.D.: 6MW-26	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 48.02	Depth to Water: Pre: 34.89 Post: 35.04
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>FOC</u> Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0914 Flow Rate: 150 mL/min Pump Depth: 43'

Time	Temp. (C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0917	21.6	6.71	3794	42	0.67	6.4	450	35.04
0920	22.6	6.74	3953	71	0.68	-16.2	900	35.04
0923	22.5	6.75	4011	83	0.59	-24.0	1350	35.04
0926	22.6	6.75	4064	96	0.44	-30.8	1800	35.04
0929	22.5	6.75	4074	88	0.42	-33.6	2250	35.04
0932	22.7	6.75	4088	85	0.40	-35.7	2700	35.04
0935	23.0	6.75	4096	81	0.39	-38.2	3150	35.04

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: 3150 mL
Sampling Time: 0936	Sampling Date: 10/5/17
Sample I.D.: 6MW-26	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOCs MTBE	Other: <u>TPH-D</u>
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-R01	Client: KMEP
Sampler: HP	Start Date: 10/5/2017
Well I.D.: GMW-28	Well Diameter: 2 3 ④ 6 8
Total Well Depth: 49.23	Depth to Water: Pre: 35.27 Post: 35.50
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>VOC</u> Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump Monsoon
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1236 Flow Rate: 100 ml/min Pump Depth: 45'

Time	Temp. (<u>°C</u> or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to water
1239	25.0	7.10	3124	119	0.39	-10.0	300	35.50
1242	25.2	7.09	3139	111	0.26	-17.2	600	35.50
1250 1245	26.7	7.07	3158	104	0.12	-31.1	900	35.50
1253 1248	25.9	7.06	3165	101	0.12	-36.5	1200	35.50
1256 1251	25.5	7.06	3168	106	0.12	-40.5	1500	35.50
1259	25.5	7.06	3167	105	0.11	-42.7	1800	35.50
1301	25.4	7.06	3165	103	0.11	-43.4	2100	35.51

Did well dewater? Yes No Amount actually evacuated: 2.1 L

Sampling Time: 1303 Sampling Date: 10/5/2017

Sample I.D.: GMW-28 Laboratory: Alpha Analytical

Analyzed for: TPHg TPHfp VOC's MTBE Other: See C.O.C.

Equipment Blank I.D.: @ _____ Time Duplicate I.D.: _____

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555
A Stopped pump for recharge. DTW > 0.25 drawdown

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-HH1	Client: KMEP
Sampler: R0	Start Date: 10/6/17
Well I.D.: Gmw-30	Well Diameter: 2 3 4 <u>6</u> 8
Total Well Depth: 49.53	Depth to Water: Pre: 35.80 Post: 35.83
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0925 Flow Rate: 200 ml/min Pump Depth: 45'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0928	23.5	6.89	2840	19	0.95	-144.9	600	35.83
0931	23.8	6.91	2894	17	0.81	-117.1	1200	35.83
0934	23.8	6.94	2869	17	0.64	-179.5	1800	35.83
0937	23.8	6.94	2985	16	0.60	183.9	2400	35.83
0940	23.9	6.94	3002	15	0.57	187.5	3000	35.83
0943	23.9	6.95	3018	15	0.55	190.9	3600	35.83

Did well dewater? Yes No Amount actually evacuated: 3600 mL

Sampling Time: 0944 Sampling Date: 10/6/17

Sample I.D.: Gmw-30 Laboratory: Alpha Analytical

Analyzed for: TRH TPHp VOC's MTBE Other: TPHD

Equipment Blank I.D.: @ _____ Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-HH1	Client: KMEP
Sampler: M7	Start Date: 10/5/17
Well I.D.: 6MW-36	Well Diameter: 2 3 ④ 6 8
Total Well Depth: 51-95	Depth to Water: Pre: 34-05 Post: 34-19
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVO Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1237 Flow Rate: 150 ml/min Pump Depth: 42'

Time	Temp. (C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to water
1240	24.8	6.76	2478	7	0.55	-130.9	450	34-19
1243	24.6	6.75	2491	7	0.55	-143.2	800	34-19
1246	24.9	6.75	2512	8	0.35	-154.7	1350	34-19
1249	25.0	6.75	2519	7	0.31	-160.7	1800	34-19
1252	25.2	6.75	2527	7	0.27	-167.0	2250	34-19
1255	25.1	6.75	2530	7	0.27	-172.8	2700	34-19
1258	25.0	6.75	2533	7	0.24	-179.9	3150	34-19
1301	25.1	6.75	2540	7	0.23	-183.9	3600	34-19
1304	25.1	6.75	2543	7	0.23	-187.1	4050	34-19

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: 4050ml
Sampling Time: 1305	Sampling Date: 10/5/17
Sample I.D.: 6MW-36	Laboratory: Alpha Analytical
Analyzed for: TPHg <input checked="" type="checkbox"/> TPHfp <input checked="" type="checkbox"/> VOCs <input checked="" type="checkbox"/> MTBE	Other: TPH D
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-R01	Client: KMEP
Sampler: HP	Start Date: 10/3/2017
Well I.D.: GMW-37	Well Diameter: 2 3 ④ 6 8
Total Well Depth: 53.54	Depth to Water: Pre: 35.52 Post: 35.62
Depth to Free Product: /	Thickness of Free Product (feet): /
Referenced to: <input checked="" type="radio"/> PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other: Monsoon
 Start Purge Time: 1615 Flow Rate: 200 ml/min Pump Depth: 48'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1618	23.8	7.51	1281	48	0.37	53.1	600	35.62
1621	24.1	7.48	1279	37	0.32	47.7	1200	35.62
1624	24.2	7.46	1282	32	0.29	42.2	1800	35.62
1627	24.3	7.45	1283	31	0.30	37.3	2400	35.62
1630	24.3	7.44	1286	30	0.30	32.4	3000	35.62

Did well dewater? Yes <input checked="" type="radio"/> No	Amount actually evacuated: 3 L
Sampling Time: 1631	Sampling Date: 10/3/2017
Sample I.D.: GMW-37	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other: <u>see C.O.C.</u>
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-###1	Client: KMEP
Sampler: N	Start Date: 10/3/17
Well I.D.: 6mw-38	Well Diameter: 2 3 <u>4</u> 6 8 <u>30"</u>
Total Well Depth: 53-04	Depth to Water: Pre: 33-56 Post: 33-11
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>VOC</u> Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1612 Flow Rate: 200 mL/min Pump Depth: 48'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1615	22.7	7.26	942	6	0.75	-4.2	600	33-71
1618	22.8	7.17	932	6	0.61	-9.7	1200	33-71
1621	23.0	7.14	930	5	0.56	-12.1	1800	33-71
1624	23.0	7.14	927	6	0.59	-13.0	2400	33-71
1627	22.6	7.11	926	6	0.55	-13.4	3000	33-71

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: 3000mL
Sampling Time: 1628	Sampling Date: 10/3/17
Sample I.D.: 6mw-38	Laboratory: Alpha Analytical
Analyzed for: <input checked="" type="checkbox"/> TPH <input checked="" type="checkbox"/> TPHfp <input checked="" type="checkbox"/> VOC's <input type="checkbox"/> MTBE	Other: <input checked="" type="checkbox"/> TP&D
Equipment Blank I.D.: EB-1 @ Time 1648	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 17002-RD1	Client: KMEP
Sampler: HP	Start Date: 10/4/2017
Well I.D.: GMW-39	Well Diameter: 2 3 4 6 8
Total Well Depth: 50.60	Depth to Water: Pre: 32.83 Post: 33.06
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump Monsoon
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1301 Flow Rate: 100 mL/min Pump Depth: 45'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to water
1304	24.1	7.43	869	34	0.56	8.1	300	33.05
1307	24.9	7.36	869	20	0.45	4.4	600	33.05
1310	26.1	7.32	866	19	0.40	1.7	900	33.06
1313	26.6	7.32	873	18	0.32	-7.2	1200	33.06
1316	26.8	7.32	871	18	0.26	-8.5	1500	33.06

Did well dewater? Yes <u>No</u>	Amount actually evacuated: 1.5 L
Sampling Time: 1318	Sampling Date: 10/4/2017
Sample I.D.: GMW-39	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	<u>Other</u> : see C.O.C.
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>171002-RD1</u>	Client: <u>KMEP</u>
Sampler: <u>RP</u>	Start Date: <u>10/4/2017</u>
Well I.D.: <u>GMW-0-1</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: <u>49.18</u>	Depth to Water: Pre: <u>31.11</u> Post: <u>31.34</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>(VFD)</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump Monsoon
 Sampling Method: Dedicated Tubing New Tubing Other _____

Start Purge Time: 1122 Flow Rate: 150 ml/min Pump Depth: 45'

Time	Temp. (<u>C</u> or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to water
1125	23.6	7.17	3407	74	0.78	55.4	450	31.29
1128	24.9	7.13	3391	52	0.50	51.7	900	31.30
1131	25.6	7.09	3417	43	0.33	49.3	1350	31.32
1134	26.5	7.08	3428	45	0.31	48.7	1800	31.33
1137	26.2	7.07	3432	47	0.32	48.8	2250	31.34

Did well dewater? Yes No Amount actually evacuated: 2250 mL

Sampling Time: 1139 Sampling Date: 10/4/2017

Sample I.D.: GMW-0-1 Laboratory: Alpha Analytical

Analyzed for: TPHg TPHfp VOC's MTBE Other see C.O.C.

Equipment Blank I.D.: @ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-441	Client: KMEP
Sampler: 10	Start Date: 10/4/17
Well I.D.: GHW-0-2	Well Diameter: 2 3 4 6 8
Total Well Depth: 49.24	Depth to Water: Pre: 31.37 Post: 31.55
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____

Start Purge Time: 0921 Flow Rate: 150 ml/min Pump Depth: 45

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0924	22.8	7.04	3052	9	1.29	38.9	450	31.51
0927	23.0	7.02	3063	8	1.40	38.7	800	31.51
0930	24.1	7.00	3069	8	1.48	40.3	1350	31.52
0933	24.3	7.00	3107	6	1.43	41.0	1800	31.52
0936	24.0	6.99	3108	6	1.41	39.3	2250	31.54
0939	24.0	6.99	3104	7	1.37	37.1	2700	31.55

Did well dewater? Yes No Amount actually evacuated: 2700 mL

Sampling Time: 0940 Sampling Date: 10/4/17

Sample I.D.: GHW-0-2 Laboratory: Alpha Analytical

Analyzed for: TP(Hg) TPHfp VOCs MTBE Other: TPHD

Equipment Blank I.D.: @ _____ Time _____ Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-HH1	Client: KMEP
Sampler: 16	Start Date: 10/4/17
Well I.D.: 6 MW-0-3	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 47.81	Depth to Water: Pre: 31.54 Post: 31.64
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PTC</u> Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other
 Start Purge Time: 0817 Flow Rate: 150 mL/min Pump Depth: 43'

Time	Temp. (<u>C</u> or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to water
0820	21.5	6.88	2758	6	0.70	-114.9	450	31.64
0823	22.2	6.92	2758	5	0.75	-116.9	900	31.64
0826	22.5	6.95	2795	6	0.72	-118.0	1350	31.64
0829	22.8	6.96	2808	6	0.71	-119.5	1800	31.64
0832	22.9	6.97	2818	6	0.68	-121.3	2250	31.64
0835	22.8	6.97	2820	6	0.62	-121.6	2700	31.64

Did well dewater? Yes <input type="checkbox"/> NO <input checked="" type="checkbox"/>	Amount actually evacuated: 2700 mL
Sampling Time: 0836	Sampling Date: 10/4/17
Sample I.D.: 6 MW-0-3	Laboratory: Alpha Analytical
Analyzed for: <u>TPH</u> g TPHfp <u>VOC's</u> MTBE	Other: <u>TPH D</u>
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-#41	Client: KMEP
Sampler: R2	Start Date: 10/4/17
Well I.D.: 6MW-0-4	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 49.28	Depth to Water: Pre: 30.44 Post: 30.46
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1019 Flow Rate: 200 ml/min Pump Depth: 45'

Time	Temp. (<u>C</u> or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1022	22.7	7.18	2461	11	0.94	20.8	600	30.46
1025	22.5	7.17	2438	13	0.98	17.9	1200	30.46
1028	23.1	7.16	2428	13	0.85	18.6	1800	30.46
1031	23.2	7.15	2434	15	0.71	18.5	2400	30.46
1034	23.0	7.15	2422	16	0.70	17.3	3000	30.46
1037	22.9	7.16	2405	16	0.68	16.7	3600	30.46

Did well dewater? Yes No Amount actually evacuated: 3600 mL

Sampling Time: 1038 Sampling Date: 10/4/17

Sample I.D.: 6MW-0-4 Laboratory: Alpha Analytical

Analyzed for: TP(Hg) TPHfp VOC's MTBE Other STPH D

Equipment Blank I.D.: @ _____ Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-441	Client: KMEP
Sampler: AQ	Start Date: 10/4/17
Well I.D.: Gmw-0-5	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 48.96	Depth to Water: Pre: 31.08 Post: 31.16
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other
 Start Purge Time: 1104 Flow Rate: 200 mL/min Pump Depth: 45'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1107	23.0	7.23	1996	5	0.49	0.4	600	31.16
1110	23.3	7.20	1997	4	0.41	-5.5	1200	31.16
1113	23.3	7.19	1993	4	0.40	-7.4	1800	31.16
1116	22.8	7.19	1972	4	0.31	-11.5	2400	31.16
1119	23.0	7.19	1964	4	0.30	-14.3	3000	31.16
1122	23.3	7.19	1959	4	0.32	-14.5	3600	31.16

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 3600 mL
Sampling Time: 1123	Sampling Date: 10/4/17
Sample I.D.: Gmw-0-5	Laboratory: Alpha Analytical
Analyzed for: TPHg <input checked="" type="checkbox"/> TPHfp <input checked="" type="checkbox"/> VOCs <input checked="" type="checkbox"/> MTBE	Other: TPH-D <input checked="" type="checkbox"/>
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-RD1	Client: KMEP
Sampler: HP	Start Date: 10/11/2017
Well I.D.: GMW-0-9	Well Diameter: 2 3 ④ 6 8 _____
Total Well Depth: 50.04	Depth to Water: Pre: 33.19 Post: 33.43
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump Monsoon

Sampling Method: Dedicated Tubing New Tubing Other _____

Start Purge Time: 0932 Flow Rate: 150 ml/min Pump Depth: 45'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0937	21.6	6.99	2626	28	0.52	259.1	450	33.40
0940	21.9	7.01	2624	21	0.42	255.1	900	33.40
0943	22.2	7.04	2631	19	0.41	248.8	1350	33.41
0946	22.2	7.06	2654	29	0.37	239.8	1800	33.42
0949	22.5	7.09	2652	27	0.32	234.0	2250	33.43
0952	22.4	7.11	2652	27	0.32	232.2	2700	33.43

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 2.7 L
Sampling Time: 0953	Sampling Date: 10/11/2017
Sample I.D.: GMW-0-9	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other: <u>see C.O.C.</u>
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171062-RD1	Client: KMEP
Sampler: HP	Start Date: 10/4/2017
Well I.D.: GMW-0-10	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 50.04	Depth to Water: Pre: 34.74 Post: 34.92
Depth to Free Product: /	Thickness of Free Product (feet): /
Referenced to: <u>6VC</u> Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump Moniscan
 Sampling Method: Dedicated Tubing New Tubing Other _____

Start Purge Time: 1021 Flow Rate: 100 ml/min Pump Depth: 45'

Time	Temp. (<u>C</u> or °F)	pH	Cond. (mS/cm or <u>uS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to water
1024	22.4	7.19	3807	8	0.55	-94.5	300	34.92
1027	22.6	7.16	3846	7	0.41	-104.8	600	34.92
1030	23.2	7.15	3891	8	0.39	-103.3	900	34.92
1033	22.6	7.15	3892	8	0.37	-107.3	1200	34.92
1036	22.6	7.15	3900	7	0.28	-109.9	1500	34.92

Did well dewater? Yes No Amount actually evacuated: 1.5 L

Sampling Time: 1037 Sampling Date: 10/4/2017

Sample I.D.: GMW-0-10 Laboratory: Alpha Analytical

Analyzed for: TPHg TPHfp VOC's MTBE Other: see C.O.C.

Equipment Blank I.D.: @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-111	Client: KMEP
Sampler: N	Start Date: 10/5/19
Well I.D.: 6mm-0-12	Well Diameter: 2 3 4 6 8
Total Well Depth: —	Depth to Water: Pre: 33.26 Post: —
Depth to Free Product: 32.60	Thickness of Free Product (feet): 1.20
Referenced to: PWS Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: _____ Flow Rate: _____ Pump Depth: _____

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
		1.20	SPM	DETECTED w/ Interface Probe				

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated:
Sampling Time:	Sampling Date:
Sample I.D.:	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other:
Equipment Blank I.D.:	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-RD1	Client: KMEP
Sampler: HP	Start Date: 10/6/2017
Well I.D.: GMW-0-14	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 49.74 [Ⓢ] 49.86	Depth to Water: Pre: 33.44 Post: 33.67
Depth to Free Product: /	Thickness of Free Product (feet): /
Referenced to: <u>PVC</u> Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump Blowdown
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1230 Flow Rate: 150 ml/min Pump Depth: 45'

Time	Temp. (<u>C</u> or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to water
1233	27.4	7.11	2549	146	2.43	-295.2	450	33.64
1236	27.6	7.10	2566	190	1.66	-289.9	900	33.65
1239	27.6	7.09	2621	138	1.31	-302.0	1350	33.66
1242	27.6	7.09	2612	137	1.08	-312.7	1800	33.66
1245	27.7	7.09	2586	135	1.01	-315.7	2250	33.67
1248	28.2	7.08	2593	126	0.92	-318.8	2700	33.67

Did well dewater? Yes <u>No</u>	Amount actually evacuated: 2.7 L
Sampling Time: 1250	Sampling Date: 10/6/2017
Sample I.D.: GMW-0-14	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	<u>Other:</u> See C.C.C.
Equipment Blank I.D.: @ _____	Duplicate I.D.: DUP-7

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-HH1	Client: KMEP
Sampler: R	Start Date: 10/5/17
Well I.D.: 6MW-0-15	Well Diameter: 2 3 ④ 6 8
Total Well Depth: —	Depth to Water: Pre: 31.92 Post: —
Depth to Free Product: 30-33	Thickness of Free Product (feet): 1.59
Referenced to: PHS Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: _____ Flow Rate: _____ Pump Depth: _____

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
	—	1.59'	SPH	DETECTED				—
		Bottom	TEST	PERFORMED TO				—
			— NO	SAMPLE COLLECTED				—

Did well dewater? Yes No	Amount actually evacuated:
Sampling Time:	Sampling Date:
Sample I.D.:	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other:
Equipment Blank I.D.:	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-R01	Client: KMEP
Sampler: HP	Start Date: 10/4/2017
Well I.D.: GMW-0-16	Well Diameter: 2 3 ④ 6 8
Total Well Depth: 49.91	Depth to Water: Pre: 31.47 Post: 31.52
Depth to Free Product: /	Thickness of Free Product (feet): /
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump Monsoon
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1500 Flow Rate: 200 ml/min Pump Depth: 45'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1503	24.1	7.21	1847	88	0.50	56.6	600	31.49
1506	23.9	7.19	1854	77	0.29	52.3	1200	31.52
1509	23.8	7.20	1968	60	0.22	47.0	1800	31.52
1512	23.7	7.20	1985	60	0.20	45.8	2400	31.52
1515	23.7	7.21	1992	59	0.17	43.6	3000	31.52

Did well dewater? Yes Amount actually evacuated: 3 L
 Sampling Time: 1517 Sampling Date: 10/4/2017
 Sample I.D.: GMW-0-16 Laboratory: Alpha Analytical
 Analyzed for: TPHg TPHfp VOC's MTBE Other: see C.O.C.
 Equipment Blank I.D.: @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-441	Client: KMEP
Sampler: 167	Start Date: 10/4/17
Well I.D.: 6mw-0-17	Well Diameter: 2 3 <input checked="" type="radio"/> 6 8 _____
Total Well Depth: 39-65	Depth to Water: Pre: 30-81 Post: 30-88
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____

Start Purge Time: 1146 Flow Rate: 150 mL/min Pump Depth: 35'

Time	Temp. (C or F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1149	24.0	6.92	2172	19	2.25	52.4	450	30.99
1152	24.2	6.90	2168	20	2.18	53.6	800	30.88
1155	23.8	6.88	2178	20	2.32	55.1	1350	30.88
1158	23.8	6.88	2175	17	2.22	54.4	1800	30.88
1201	24.0	6.88	2175	18	2.24	53.5	2250	30.88
1204	24.1	6.87	2181	17	2.18	53.6	2700	30.88

Did well dewater? Yes No Amount actually evacuated: 2700 mL

Sampling Time: 1205 Sampling Date: 10/4/17

Sample I.D.: 6mw-0-17 Laboratory: Alpha Analytical

Analyzed for: TPHs TPHsp VOCs MTBE Other: TPH, D

Equipment Blank I.D.: @ _____ Time _____ Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>21002-4#1</u>	Client: <u>KMEP</u>
Sampler: <u>M</u>	Start Date: <u>10/6/18</u>
Well I.D.: <u>6MW-0-18</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: <u>—</u>	Depth to Water: Pre: <u>31.32</u> Post: <u>—</u>
Depth to Free Product: <u>31-30</u>	Thickness of Free Product (feet): <u>-.02</u>
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump ~~Peristaltic Pump~~ ~~Bladder Pump~~
 Sampling Method: Dedicated Tubing ~~New Tubing~~ ~~Other~~
 Start Purge Time: _____ Flow Rate: _____ Pump Depth: _____

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
—	—	<u>.02</u>	<u>SPH</u>	<u>Detected w/ Interface Probe</u>	—	—	—	—
—	—	—	—	<u>Bladder Test Performed to confirm SPH</u>	—	—	—	—
—	—	—	<u>no</u>	<u>sample collected</u>	—	—	—	—

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: _____
Sampling Time: _____	Sampling Date: _____
Sample I.D.: _____	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>TPHg TPHfp VOC's MTBE</u>	Other: _____
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-RD1	Client: KMEP
Sampler: HP	Start Date: 10/4/2017
Well I.D.: GMW-0-19	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 40.06	Depth to Water: Pre: 31.66 Post: 31.89
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVO</u> Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump Monsieur
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1421 Flow Rate: 150 ml/min Pump Depth: ~~40~~ 35'

Time	Temp. (<u>°C</u> or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to water
1424	24.9	7.15	1735	17	1.02	-52.2	450	31.88
1427	25.8	7.14	1757	14	0.97	-28.2	<i>changed rate to 100 ml/min</i> 750	31.89
1430	25.9	7.14	1750	17	0.95	-18.0	1050	31.89
1433	26.2	7.11	1761	19	0.98	-11.2	1350	31.89
1436	26.0	7.14	1762	18	0.91	-11.4	1650	31.89

Did well dewater? Yes <u>No</u>	Amount actually evacuated: 1650 ml
Sampling Time: 1438	Sampling Date: 10/4/2017
Sample I.D.: GMW-0-19	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	<u>Other</u> see C.O.C.
Equipment Blank I.D.: @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-R01	Client: KMEP
Sampler: HP	Start Date: 10/6/2017
Well I.D.: GMW-0-20	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 37.90	Depth to Water: Pre: 32.61 Post: 32.65
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump Monsieur
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1038 Flow Rate: 300 ml/min Pump Depth: 36'

Time	Temp. (<u>C</u> or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to water
1041	27.7	7.33	2101	87	2.27	-263.4	900	32.65
1044	27.9	7.29	2092	158	2.04	-286.1	1800	32.65
1047	28.6	7.28	2087	214	1.56	-301.9	2700	32.65
1050	28.6	7.27	2082	229	1.30	-318.0	3600	32.65
1053	28.8	7.27	2071	168	1.22	-322.5	4500	32.65
1056	29.3	7.27	2069	152	1.17	-330.1	5400	32.65
1059	29.3	7.27	2063	143	1.16	-331.3	6300	32.65

Did well dewater? Yes <u>No</u>	Amount actually evacuated: <u>6.3 L</u>
Sampling Time: <u>1101</u>	Sampling Date: <u>10/6/2017</u>
Sample I.D.: <u>GMW-0-20</u>	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	<u>Other</u> <u>see C.O.C.</u>
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-441	Client: KMEP
Sampler: RP	Start Date: 10/6/17
Well I.D.: 6MW-0-21	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 43-04	Depth to Water: Pre: <u>33.22</u> Post: <u>33-40</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVO Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1040 Flow Rate: 200 mL/min Pump Depth: 38'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1043	28.4	6.80	2347	16	0.51	-171.2	600	33-40
1046	28.3	6.78	2346	15	0.46	-181.0	1200	33-40
1049	28.3	6.78	2355	11	0.33	-194.1	1800	33-40
1052	28.5	6.78	2350	12	0.29	-205.1	2400	33-40
1055	28.5	6.78	2356	12	0.28	-212.3	3000	33-40
1058	28.4	6.78	2353	12	0.27	-215.9	3600	33-40
1101	28.4	6.78	2357	12	0.27	-220.7	4200	33-40

Did well dewater? Yes No Amount actually evacuated: 4200 mL

Sampling Time: 1102 Sampling Date: 10/6/17

Sample I.D.: 6MW-0-21 Laboratory: Alpha Analytical

Analyzed for: TPH TPH_{fp} VOCs MTBE Other: TPH D

Equipment Blank I.D.: @ _____ Time _____ Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-RD1	Client: KMEP
Sampler: HP	Start Date: 10/6/2017
Well I.D.: GMW-0-23	Well Diameter: 2 3 ④ 6 8
Total Well Depth: 39.42	Depth to Water: Pre: 34.10 Post: 34.17
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVE) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump Monsoon
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1145 Flow Rate: 250 ml/min Pump Depth: 37'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1148	29.6	7.20	3029	91	2.19	-267.1	750	34.15
1151	29.4	7.21	3024	39	2.07	-273.6	1500	34.15
1154	29.8	7.20	3049	39	1.49	-307.1	2250	34.15
1157	29.8	7.20	3050	36	1.35	-318.0	3000	34.15
1200	30.0	7.19	3049	35	1.23	-332.0	3750	34.17
1203	30.0	7.18	3046	35	1.14	-333.1	4500	34.17
1206	30.0	7.18	3044	35	1.09	-334.1	5250	34.17

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 5250 mL
Sampling Time: 1145 (1208)	Sampling Date: 10/6/2017
Sample I.D.: GMW-0-23	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other: <u>See C.O.C.</u>
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-R01	Client: KMEP
Sampler: HP	Start Date: 10/4/2017
Well I.D.: GMW-024	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 45.19	Depth to Water: Pre: 31.99 Post: 32.13
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: <u>PVO</u> Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump Monsoon
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1216 Flow Rate: 200 mL/min Pump Depth: 40'

Time	Temp. (<u>°C</u> or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to water
1219	22.4	7.21	2414	21	0.77	-103.7	600	32.09
1222	21.9	7.19	2431	39	0.42	-118.1	1200	32.10
1225	21.0	7.11	2418	38	0.30	-117.8	1800	32.11
1228	21.0	7.11	2417	37	0.29	-118.0	2400	32.12
1231	21.1	7.08	2413	36	0.22	-116.0	3000	32.13

Did well dewater? Yes <u>PO</u>	Amount actually evacuated: 3 L
Sampling Time: <u>1233^{PM}</u> 1233	Sampling Date: 10/4/2017
Sample I.D.: GMW-0-24	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	<u>Other</u> See C.O.C.
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-447	Client: KMEP
Sampler: N	Start Date: 10/4/17
Well I.D.: 6MW-SF-7	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 43.25	Depth to Water: Pre: 33.16 Post: 33.32
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>VC</u> Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1338 Flow Rate: 200 ml/min Pump Depth: 39'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to water
1341	22.3	7.40	981	68	1.30	141.3	600	33.32
1344	22.3	7.48	946	67	2.51	131.1	1200	33.32
1347	22.3	7.43	949	73	2.32	122.6	1800	33.32
1350	22.2	7.42	951	74	2.30	118.5	2400	33.32
1353	21.9	7.41	958	67	2.20	111.8	3000	33.32
1356	21.9	7.41	960	70	2.15	108.8	3600	33.32
1359	21.9	7.41	964	66	2.08	104.7	4200	33.32

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: 4200ml
Sampling Time: 1400	Sampling Date: 10/4/17
Sample I.D.: 6MW-SF-7	Laboratory: Alpha Analytical
Analyzed for: <u>TPHg</u> TPHfp <u>VOC's</u> MTBE	Other: <u>TPHd</u>
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-R01	Client: KMEP
Sampler: HP	Start Date: 10/4/2017
Well I.D.: GMW-SF-8	Well Diameter: 2 3 ④ 6 8
Total Well Depth: 43.60	Depth to Water: Pre: 34.52 Post: 34.74
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump Morse
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1338 Flow Rate: 150 mL/min Pump Depth: 39'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to water
1341	25.1	7.65	706	19	3.51	41.7	450	34.73
1344	25.4	7.64	706	18	3.31	41.2	400	34.73
1347	26.1	7.60	706	16	3.38	44.3	1350	34.73
1350	26.0	7.59	709	16	3.07	46.3	1800	34.74
1353	26.3	7.59	712	16	3.21	48.6	2250	34.74
1356	25.6	7.58	718	16	3.30	49.9	2700	34.74

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: 2.7L
Sampling Time: 1357	Sampling Date: 10/4/2017
Sample I.D.: GMW-SF-8	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	<u>Other</u> : see C.O.C.
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-HH1	Client: KMEP
Sampler: R0	Start Date: 10/5/07
Well I.D.: 6WR-1R	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 52.60	Depth to Water: Pre: 37.02 Post: 37.04
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1039 Flow Rate: 300 ml/min Pump Depth: 48'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to water
1042	23.5	6.99	3280	169	0.45	-82.4	900	37.04
1045	23.8	6.99	3321	164	0.47	-84.8	1800	37.04
1048	23.9	6.99	3318	157	0.41	-87.0	2700	37.04
1051	23.9	6.99	3300	143	0.38	-88.9	3600	37.04
1054	24.0	6.99	3302	123	0.33	-89.4	4800	37.04
1057	24.1	6.99	3300	114	0.32	-89.5	5400	37.04
1100	24.2	6.99	3317	90	0.30	-88.9	6300	37.04
1103	24.1	6.99	3314	85	0.29	-88.7	7200	37.04
1106	24.2	6.99	3312	84	0.28	-88.4	8100	37.04

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: 8100ml
Sampling Time: 1107	Sampling Date: 10/5/07
Sample I.D.: 6WR-1R	Laboratory: Alpha Analytical
Analyzed for: TPHg <input checked="" type="checkbox"/> TPHfp <input checked="" type="checkbox"/> VOCs <input checked="" type="checkbox"/> MTBE	Other: <input checked="" type="checkbox"/> TPHD
Equipment Blank I.D.: @ _____	Duplicate I.D.: DUP-

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-101	Client: KMEP
Sampler: R7	Start Date: 10/5/17
Well I.D.: H62	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 38.20	Depth to Water: Pre: 36.88 Post: 37.20
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PTC</u> Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other
 Start Purge Time: 0829 Flow Rate: 100 ml/min Pump Depth: 38'

Time	Temp. (C or F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to water
0832	22.0	6.65	3296	238	1.28	248.6	300	37.20
0835	21.6	6.65	3289	291	1.21	194.0	600	37.20
0838	22.4	6.66	3312	322	0.97	180.7	900	37.20
0841	23.5	6.64	3426	532	0.84	169.2	1200	37.20
0844	23.6	6.64	3431	71000	0.83	161.5	1500	37.20
0847	23.4	6.65	3397	71000	0.75	159.1	1800	37.20
0850	23.4	6.65	3391	71000	0.72	160.4	2100	37.20
0853	23.3	6.65	3396	71000	0.69	162.2	2400	37.20

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 2400 ml
Sampling Time: 0854	Sampling Date: 10/5/17
Sample I.D.: H6-2	Laboratory: Alpha Analytical
Analyzed for: <u>TPH</u> TPHfp <u>VOCs</u> MTBE	Other: <u>TPH D</u>
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-HH1	Client: KMEP
Sampler: 10	Start Date: 10/5/17
Well I.D.: HL-3	Well Diameter: 2 3 ④ 6 8
Total Well Depth: 41.24	Depth to Water: Pre: 37.07 Post: 37.24
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1001 Flow Rate: 150 ml/min Pump Depth: 40'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to water
1004	22.5	6.94	1848	16	0.56	-53.3	450	37.24
1007	23.0	6.86	1852	15	0.54	-59.1	900	37.24
1010	23.1	6.83	1853	13	0.53	-60.4	1350	37.24
1013	23.3	6.82	1857	12	0.45	-61.3	1800	37.24
1016	23.3	6.82	1860	11	0.40	-61.8	2250	37.24
1019	23.3	6.81	1860	11	0.39	-62.6	2700	37.24

Did well dewater? Yes <input checked="" type="radio"/> No <input type="radio"/>	Amount actually evacuated: 2700ml
Sampling Time: 1020	Sampling Date: 10/5/17
Sample I.D.: HL-3	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOCs MTBE	Other: TPHD
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-1201	Client: KMEP
Sampler: HP	Start Date: 10/3/2017
Well I.D.: MW-6	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 52.05	Depth to Water: Pre: 35.99 Post: 36.20
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump Manson
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1349 Flow Rate: 200 mL/min Pump Depth: 50'

Time	Temp. (<u>C</u> or °F)	pH	Cond. (mS/cm or <u>uS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to water
1352	24.1	7.09	3147	7	3.54	-77.5	600	36.07
1355	24.3	7.08	3135	6	2.89	-76.8	1200	36.10
1358	23.8	7.05	3139	5	1.89	-79.8	1800	36.14
1401	23.7	7.05	3142	5	1.61	-81.2	2400	36.18
1404	23.7	7.05	3140	5	1.60	-81.3	3000	36.20

Did well dewater? Yes <input type="checkbox"/> <u>No</u> <input checked="" type="checkbox"/>	Amount actually evacuated: 3 L
Sampling Time: 1406	Sampling Date: 10/3/2017
Sample I.D.: MW-6	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	<u>Other</u> see C.O.C.
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-RD1	Client: KMEP
Sampler: HP	Start Date: 10/3/2017
Well I.D.: MW-7	Well Diameter: 2 3 ④ 6 8
Total Well Depth: 53.60	Depth to Water: Pre: 37.78 Post: 38.00
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump Mansoni
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1435 Flow Rate: 150 mL/min Pump Depth: 51'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1438	23.6	7.20	3594	428	1.81	-80.4	450	37.90
1441	24.1	7.12	3608	>1000	0.18	-111.9	900	37.94
1444	24.4	7.14	3603	>1000	0.10	-138.7	1350	37.95
1447	24.2	7.16	3621	>1000	0.09	-137.7	1800	37.98
1450	24.5	7.16	3613	>1000	0.11	-132.3	2250	37.98 38.00 39.40

Did well dewater? Yes No Amount actually evacuated: 2250 ml

Sampling Time: 1452 Sampling Date: 10/3/2017

Sample I.D.: MW-7 Laboratory: Alpha Analytical

Analyzed for: TPHg TPHfp VOC's MTBE Other: see C.O.C.

Equipment Blank I.D.: @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-441	Client: KMEP
Sampler: M	Start Date: 10/4/17
Well I.D.: MW-8	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 51-90	Depth to Water: Pre: 33.49 Post: 33.61
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="checkbox"/> Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1416 Flow Rate: 200 ml/min Pump Depth: 47'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1419	24.3	6.87	1208	8	0.42	98.2	600	33.61
1422	24.3	6.85	1214	8	0.37	85.4	1200	33.61
1425	24.2	6.84	1226	6	0.44	76.6	1800	33.61
1428	24.6	6.84	1230	6	0.50	69.6	2400	33.61
1431	24.6	6.83	1259	5	0.43	56.6	3000	33.61
1434	24.8	6.83	1265	5	0.39	52.0	3600	33.61
1437	25.1	6.83	1272	5	0.40	49.8	4200	33.61

Did well dewater? Yes No Amount actually evacuated: 4200 mL

Sampling Time: 1438 Sampling Date: 10/4/17

Sample I.D.: MW-8 Laboratory: Alpha Analytical

Analyzed for: TPHg TPHfp VOC's MTBE Other: TPHD

Equipment Blank I.D.: @ _____ Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-RD1	Client: KMEP
Sampler: HP	Start Date: 10/5/2017
Well I.D.: MW-9	Well Diameter: 2 3 4 6 8
Total Well Depth: 51.78	Depth to Water: Pre: 36.24 Post: 36.46
Depth to Free Product: /	Thickness of Free Product (feet): /
Referenced to: PVO Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump ~~Mousser~~
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1045 Flow Rate: 150 ml/min Pump Depth: 46'

Time	Temp. (C or F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u>)	Depth to water
1048	24.6	7.05	1548	21	0.34	-113.5	450	36.44
1051	24.6	7.04	1551	17	0.33	-115.4	900	36.46
1054	24.9	7.04	1542	15	0.21	-117.0	1350	36.46
1057	25.1	7.05	1540	14	0.17	-118.5	1800	36.46
1100	25.0	7.05	1542	14	0.17	-119.7	2250	36.46

Did well dewater? Yes No Amount actually evacuated: 2250 ml

Sampling Time: 1107 Sampling Date: 10/5/2017

Sample I.D.: MW-9 Laboratory: Alpha Analytical

Analyzed for: TPHg TPHfp VOC's MTBE Other: see C.O.C.

Equipment Blank I.D.: @ Time Duplicate I.D.: DVP-4

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>171002-HH1</u>	Client: <u>KMEP</u>
Sampler: <u>R1</u>	Start Date: <u>10/4/17</u>
Well I.D.: <u>MW-12</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: <u>52.0'</u>	Depth to Water: Pre: <u>35-63</u> Post: <u>35-71</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>P10</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1506 Flow Rate: 200 mL/min Pump Depth: 47'

Time	Temp. (C or F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1509	23.5	7.03	823	6	0.39	-7.7	600	35-69
1512	23.8	7.00	823	5	0.37	-20.7	1200	35-69
1515	24.2	6.98	824	3	0.40	-21.1	1800	35-70
1518	24.0	6.97	825	4	0.43	-25.4	2400	35-70
1521	23.6	6.96	823	3	0.37	-29.8	3000	35-71
1524	23.9	6.97	824	3	0.39	-33.3	3600	35-71

Did well dewater? Yes <input checked="" type="radio"/> No <input type="radio"/>	Amount actually evacuated: <u>3600 mL</u>
Sampling Time: <u>1525</u>	Sampling Date: <u>10/4/17</u>
Sample I.D.: <u>MW-12</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>TPH</u> TPHsp <u>VOO's</u> MTBE Other: <u>TPH D</u>	
Equipment Blank I.D.: <u>EB-3</u> @ <u>1535</u> Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-RO1	Client: KMEP
Sampler: HF	Start Date: 10/5/2017
Well I.D.: MW-15R	Well Diameter: 2 3 4 6 8
Total Well Depth: 52.29	Depth to Water: Pre: 34.35 Post: 34.57
Depth to Free Product: —	Thickness of Free Product (feet):
Referenced to: PVO Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump Monsoon
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0958 Flow Rate: 300 ml/min Pump Depth: 48'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1001	23.5	7.19	1324	134	0.52	-74.5	900	34.57
1004	23.6	7.17	1344	127	0.46	-85.0	1800	34.57
1007	24.0	7.18	1347	108	0.31	-92.4	2700	34.57
1010	24.1	7.19	1347	103	0.27	-95.7	3600	34.57
1013	24.2	7.20	1347	99	0.22	-98.9	4500	34.57

Did well dewater? Yes No Amount actually evacuated: 4.5 L

Sampling Time: 1015 Sampling Date: 10/5/2017

Sample I.D.: MW-15R Laboratory: Alpha Analytical

Analyzed for: TPHg TPHfp VOC's MTBE Other: see C.O.C.

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-HH1	Client: KMEP
Sampler: R7	Start Date: 10/5/17
Well I.D.: MW-18 (in ID)	Well Diameter: 2 3 <input checked="" type="radio"/> 6 8
Total Well Depth: 65.59	Depth to Water: Pre: 40.26 Post: 40.40
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other
 Start Purge Time: 1329 Flow Rate: 150 ml/min Pump Depth: 60'

Time	Temp. (<input checked="" type="radio"/> or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to water
1332	27.9	6.84	2122	4	0.58	-75.0	450	40.40
1335	28.3	6.89	2159	5	0.57	-78.5	900	40.41
1338	28.4	6.88	2156	5	0.52	-79.5	1350	40.42
1341	28.4	6.88	2157	6	0.44	-78.8	1800	40.43
1344	28.5	6.88	2177	6	0.39	-80.6	2250	40.43
1347	28.6	6.87	2170	6	0.37	-83.7	2700	40.44
1350	28.8	6.87	2164	6	0.35	-84.6	3150	40.44
1353	28.8	6.87	2168	6	0.34	-86.7	3600	40.45

Did well dewater? Yes No Amount actually evacuated: 3600 ml

Sampling Time: 1354 Sampling Date: 10/5/17

Sample I.D.: MW-18 (in ID) Laboratory: Alpha Analytical

Analyzed for: TPHg TPHfp VOCs MTBE Other: TPHD

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>170002-HH1</u>	Client: <u>KMEP</u>
Sampler: <u>M</u>	Start Date: <u>10/3/17</u>
Well I.D.: <u>MW #9 (min)</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: <u>62-00</u>	Depth to Water: Pre: <u>40.51</u> Post: <u>40.68</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1443 Flow Rate: 100 ml/min Pump Depth: 57'

Time	Temp. (C or F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to water
1446	23.5	6.94	2799	8	1.47	-81.5	300	40.61
1449	23.7	6.92	2810	7	1.48	-79.8	600	40.63
1451	23.9	6.91	2818	6	1.41	-78.6	900	40.65
1454	24.2	6.91	2821	5	1.42	-78.3	1200	40.66
1457	24.3	6.91	2831	5	1.28	-77.2	1500	40.67
1500	24.2	6.90	2829	5	1.31	-75.3	1800	40.67
1503	23.9	6.90	2826	5	1.05	-76.9	2100	40.68
1506	23.7	6.90	2814	5	1.00	-76.8	2400	40.68
1509	23.8	6.90	2814	4	1.03	-77.4	2700	40.68
1512	23.7	6.90	2811	4	1.00	-77.6	3000	40.68

Did well dewater? Yes No Amount actually evacuated: 3000 ml

Sampling Time: 1513 Sampling Date: 10/3/17

Sample I.D.: MW-19 (min) Laboratory: Alpha Analytical

Analyzed for: TPH TPHfp VOCs MTBE Other: TPH D

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002 - RDI	Client: KMEP
Sampler: HP	Start Date: 10/3/2017
Well I.D.: MW-20(MID)	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 56.54	Depth to Water: Pre: 38.44 Post: 38.65
Depth to Free Product: /	Thickness of Free Product (feet): /
Referenced to: <u>PVC</u> Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump Morsecode
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1527 Flow Rate: 200 ml/min Pump Depth: 50'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to water
1530	24.0	7.23	1548	17	0.43	-76.1	600	38.60
1533	23.8	7.19	2928	14	0.40	-78.0	1200	38.62
1536	23.5	7.18	2917	6	0.28	-80.7	1800	38.62
1539	23.9	7.18	2899	5	0.24	-83.5	2400	38.63
1542	23.9	7.18	2900	5	0.21	-84.9	3000	38.65

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 3 L
Sampling Time: 1545	Sampling Date: 10/3/2017
Sample I.D.: MW-20(MID)	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other: <u>see C.O.C.</u>
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>17002-HH1</u>	Client: <u>KMEP</u>
Sampler: <u>M</u>	Start Date: <u>10/3/17</u>
Well I.D.: <u>MW-21 (min)</u>	Well Diameter: 2 3 <u>4</u> 6 8 <u> </u>
Total Well Depth: <u>62-14</u>	Depth to Water: Pre: <u>37-86</u> Post: <u>37-97</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1527 Flow Rate: 200 mL/min Pump Depth: 57'

Time	Temp. (C or F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1530	22.9	6.88	2303	3	0.72	-76.2	600	37-97
1533	23-1	6.85	2328	3	0.75	-80.0	1200	37-97
1536	23-1	6.85	2330	3	0.64	-81.5	1800	37-97
1539	23-1	6.84	2328	3	0.61	-81.2	2400	37.97
1542	22.9	6.84	2324	3	0.50	-81.7	3000	37-97

Did well dewater? Yes <input checked="" type="checkbox"/>	Amount actually evacuated: <u>3000 mL</u>
Sampling Time: <u>1543</u>	Sampling Date: <u>10/3/17</u>
Sample I.D.: <u>MW-21 (min)</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>TPHs</u> <u>TPHf</u> <u>VOCs</u> <u>MTBE</u>	Other: <u>TPH0</u>
Equipment Blank I.D.: <u> </u> @ <u> </u> Time	Duplicate I.D.: <u>DUP-1</u>

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-444	Client: KMEP
Sampler: 10	Start Date: 10/6/17
Well I.D.: MW-0-2	Well Diameter: 2 3 4 <u>6</u> 8
Total Well Depth: 41.51	Depth to Water: Pre: 34.23 Post: 34.25
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVO Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1120 Flow Rate: 200 mL/min Pump Depth: 38'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1123	27.6	6.83	2205	71000	0.40	-257.2	600	34.25
1126	28.2	6.80	2203	71000	0.26	-268.8	1200	34.25
1129	28.3	6.80	2212	71000	0.25	-274.7	1800	34.25
1132	28.3	6.80	2242	71000	0.25	-277.7	2400	34.25
1135	28.4	6.82	2282	71000	0.24	-280.7	3000	34.25
1138	28.4	6.83	2304	71000	0.24	-282.4	3600	34.25
1141	28.5	6.84	2326	71000	0.24	-284.9	4200	34.25

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: 4200 mL
Sampling Time: 1142	Sampling Date: 10/6/17
Sample I.D.: MW-0-2	Laboratory: Alpha Analytical
Analyzed for: TPHg <input checked="" type="checkbox"/> TPHfp <input type="checkbox"/> VOC's <input checked="" type="checkbox"/> MTBE	Other: TPHD
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>101002-441</u>	Client: <u>KMEP</u>
Sampler: <u>RS</u>	Start Date: <u>10/6/17</u>
Well I.D.: <u>MW-SF-1</u>	Well Diameter: 2 3 4 <u>6</u> 8
Total Well Depth: <u>41-76</u>	Depth to Water: Pre: <u>39.44</u> Post: <u>39.60</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0756 Flow Rate: 200 mL/min Pump Depth: 41'

Time	Temp. (C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0801	24.5	6.47	2667	70	0.77	-76.9	600	39.60
0804	25.9	6.44	2735	92	0.90	-82.4	1200	39.60
0807	25.9	6.42	2742	92	1.11	-79.1	1800	39.60
0810	27.0	6.37	2781	136	1.06	-75.3	2400	39.60
0813	27.3	6.31	2787	141	0.78	-72.3	3000	39.60
0816	27.0	6.30	2755	100	0.55	-68.0	3600	39.60
0819	27.2	6.27	2750	104	0.52	-64.1	4200	39.60
0822	27.2	6.23	2744	101	0.49	-60.5	4800	39.60

Did well dewater? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>4800 mL</u>
Sampling Time: <u>0823</u>	Sampling Date: <u>10/6/17</u>
Sample I.D.: <u>SF-MW-1</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>TPH</u> TPHp <u>VOC's</u> MTBE	Other: <u>OTPHD</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002 - HH1	Client: KMEP
Sampler: R1	Start Date: 10/6/17
Well I.D.: MW-SF-4	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 40.70	Depth to Water: Pre: 39.51 Post: 39.67
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>RVG</u> Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated TP Tubing New Tubing Other _____
 Start Purge Time: 0841 Flow Rate: 118 ml/min Pump Depth: 40'

Time	Temp. (<u>C</u> or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u>)	Depth to water
0844	24.0	6.65	3172	>1000	0.38	-143.0	450	39.67
0847	24.1	6.62	3269	>1000	0.36	-155.0	800	39.67
0850	24.0	6.00	3066	>1000	0.39	-74.3	1350	39.67
0853	24.6	5.80	2997	>1000	0.38	-74.1	1800	39.67
0856	24.7	5.85	2929	>1000	0.30	-73.6	2250	39.67
0859	24.8	5.84	2948	>1000	0.34	-71.4	2700	39.67
0902	24.8	5.88	2942	>1000	0.33	-70.2	3150	39.67

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 3150 ml
Sampling Time: 0903	Sampling Date: 10/6/17
Sample I.D.: MW-SF-4	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other: <u>TPHD</u>
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-R01	Client: KMEP
Sampler: HP	Start Date: 10/6/2017
Well I.D.: MW-SF-6	Well Diameter: 2 3 4 6 8
Total Well Depth: 41.53	Depth to Water: Pre: 37.26 Post: 37.48
Depth to Free Product: /	Thickness of Free Product (feet): /
Referenced to: VOC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump **Mansoon**
 Sampling Method: Dedicated Tubing **New Tubing** Other _____
 Start Purge Time: 0838 Flow Rate: 100 mL/min Pump Depth: 40'

Time	Temp. (C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to water
0841	25.1	7.14	3953	71000	1.02	-272.8	300	37.48
0844	25.1	7.03	3918	71000	1.06	-307.8	600	37.48
0847	25.3	6.98	3935	71000	0.84	-321.9	900	37.48
0850	25.5	6.97	3923	71000	0.79	-324.8	1200	37.48
0853	25.4	6.96	3925	71000	0.73	-329.7	1500	37.48

Did well dewater? Yes Yes	Amount actually evacuated: 1.5 L
Sampling Time: 0855	Sampling Date: 10/6/2017
Sample I.D.: MW-SF-6	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other: see C.O.C.
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002- PH 1	Client: KMEP
Sampler: RD	Start Date: 10/6/17
Well I.D.: MW-SF-9	Well Diameter: 2 3 4 6 8 <u> </u>
Total Well Depth: <u> </u>	Depth to Water: Pre: <u> </u> Post: <u> </u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump ~~Peristaltic Pump~~ ~~Bladder Pump~~
 Sampling Method: Dedicated Tubing ~~New Tubing~~ ~~Other~~
 Start Purge Time: Flow Rate: Pump Depth:

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
	<u> </u>	<u>UNABLE</u>	<u>TO</u>	<u>LOCATE</u>	<u>WELL</u>	<u> </u>		
		<u>← NO</u>	<u>SAMPLE</u>	<u>COLLECTED</u>	<u> </u>			

Did well dewater? Yes <u> </u> No <u> </u>	Amount actually evacuated: <u> </u>
Sampling Time: <u> </u>	Sampling Date: <u> </u>
Sample I.D.: <u> </u>	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other: <u> </u>
Equipment Blank I.D.: <u> </u> @ <u> </u> Time	Duplicate I.D.: <u> </u>

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-R01	Client: KMEP
Sampler: HP	Start Date: 10/5/2017 10/6/2017
Well I.D.: MW-SF-13	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 38.80	Depth to Water: Pre: 33.94 Post: 34.08
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVE</u> Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump Mousoor
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0750 Flow Rate: 150 ml/min Pump Depth: 37'

Time	Temp. (<u>°C</u> or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u>)	Depth to water
0753	24.0	6.82	2543	88	0.12	-160.4	450	34.02
0756	25.0	6.98	2549	89	0.26	-221.9	900	34.05
0759	25.0	7.09	2558	89	0.42	-252.7	1350	34.05
0802	26.4	7.14	2566	81	0.57	-269.0	1800	34.06
0805	26.7	7.18	2582	79	0.55	-275.3	2250	34.07
0808	26.8	7.22	2605	79	0.41	-281.2	2700	34.08
0811	26.8	7.23	2610	77	0.39	-285.0	3150	34.08

Did well dewater? Yes <u>No</u>	Amount actually evacuated: <u>3150 ml</u>
Sampling Time: <u>0812</u>	Sampling Date: <u>10/6/2017</u>
Sample I.D.: <u>MW-SF-13</u>	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	<u>Other</u> : <u>see C.O.C.</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171062-HH1	Client: KMEP
Sampler: LO	Start Date: 10/5/17
Well I.D.: MW-SF-14	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 36-03	Depth to Water: Pre: Dry Post:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PTG Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: _____ Flow Rate: _____ Pump Depth: _____

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
	—		wc 11	15	Dry	—		
	—	NO	sample	collected	—			

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated:
Sampling Time:	Sampling Date:
Sample I.D.:	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other:
Equipment Blank I.D.:	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-R01	Client: KMEP
Sampler: HP	Start Date: 10/6/2017
Well I.D.: MW-SF-15	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 43.10	Depth to Water: Pre: 38.81 Post: 38.89
Depth to Free Product: /	Thickness of Free Product (feet): /
Referenced to: <u>PVC</u> Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump Mansoni
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0922 Flow Rate: 200 ml/min Pump Depth: 41'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to water
0925	28.3	6.98	2537	178	2.09	-287.3	600	38.89
0928	28.8	6.99	2550	179	1.60	-313.2	1200	38.89
0931	29.3	6.98	2573	184	1.07	-325.3	1800	38.89
0934	29.6	6.97	2576 <u>2576</u>	178	0.98	-327.2	2400	38.89
0937	29.7	6.96	2583	180	0.85	-329.0	3000	38.89

Did well dewater? Yes No Amount actually evacuated: 3 L

Sampling Time: 0939 Sampling Date: 10/6/2017

Sample I.D.: MW-SF-15 Laboratory: Alpha Analytical

Analyzed for: TPHg TPHfp VOC's MTBE Other: see C.O.C.

Equipment Blank I.D.: @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-HH/1	Client: KMEP
Sampler: Q1	Start Date: 10/3/17
Well I.D.: PW-3	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 50.05	Depth to Water: Pre: 33-26 Post: 33-74
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1400 Flow Rate: 200 ml/min Pump Depth: 45'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1403	23.3	6.92	2792	158	0.81	-38.2	600	33-74
1406	23.5	6.92	2798	186	0.67	-45.9	1200	33-74
1409	23.6	6.92	2802	206	0.69	-49.1	1800	33-74
1412	23.6	6.92	2802	216	0.72	-48.5	2400	33-74
1415	23.6	6.91	2801	217	0.69	-48.1	3000	33-74
1418	23.3	6.91	2797	211	0.62	-48.0	3600	33-74

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 3600 mL
Sampling Time: 1419	Sampling Date: 10/3/17
Sample I.D.: PW-3	Laboratory: Alpha Analytical
Analyzed for: TPH <input checked="" type="checkbox"/> TPHfp <input type="checkbox"/> VOCs <input type="checkbox"/> MTBE	Other: <input checked="" type="checkbox"/> TPH D
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-441	Client: KMEP
Sampler: R7	Start Date: 10/5/17
Well I.D.: P2-2	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 48.92	Depth to Water: Pre: 34.25 Post: 34.42
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1423 Flow Rate: 150 ml/min Pump Depth: 43'

Time	Temp. (<u>C</u> or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u>)	Depth to water
1426	26.3	7.02	2157	36	0.43	-95.0	450	34.41
1429	26.0	7.00	2143	39	0.36	-97.1	900	34.41
1432	26.2	6.97	2127	45	0.31	-99.0	1350	34.41
1435	26.5	6.96	2118	45	0.32	-100.7	1700	34.41
1438	26.5	6.95	2109	47	0.35	-102.5	2250	34.42
1441	26.4	6.95	2099	43	0.32	-103.1	2700	34.42
1444	26.4	6.94	2092	43	0.30	-104.8	3150	34.42

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 3150 mL
Sampling Time: 1445	Sampling Date: 10/5/17
Sample I.D.: P2-2	Laboratory: Alpha Analytical
Analyzed for: <u>TPH</u> TPHfp <u>VOC's</u> MTBE	Other: <u>TPH D</u>
Equipment Blank I.D.: <u>EB-5</u> @ <u>time 1560</u>	Duplicate I.D.: <u>DUP-6</u>

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-R01	Client: KMEP
Sampler: MP	Start Date: 10/5/2017
Well I.D.: PZ-5	Well Diameter: 2 3 <input checked="" type="radio"/> 6 8 _____
Total Well Depth: 37.90	Depth to Water: Pre: 31.48 Post: 31.72
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump Monsoon
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1146 Flow Rate: 100 mL/min Pump Depth: 35'

Time	Temp. (<u>C</u> or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to water
1149	22.2	7.06	1911	28	0.59	-105.6	300	31.70
1152	22.7	7.03	1894	26	0.32	-111.1	600	31.70
1155	23.4	7.01	1885	24	0.20	-115.2	900	31.71
1158	23.6	7.00	1906	23	0.20	-116.3	1200	31.71
1201	22.7	7.00	1886	22	0.21	-116.6	1500	31.72

Did well dewater? Yes No Amount actually evacuated: 1.5 L

Sampling Time: 1203 Sampling Date: 10/5/2017

Sample I.D.: PZ-5 Laboratory: Alpha Analytical

Analyzed for: TPHg TPHfp VOC's MTBE Other: see C.O.C.

Equipment Blank I.D.: @ _____ Time Duplicate I.D.: DVP-5

LOW FLOW WELL MONITORING DATA SHEET

Project #: 170002-H#1	Client: KMEP
Sampler: RD	Start Date: 10/5/17
Well I.D.: 22-10	Well Diameter: 2 3 6 8
Total Well Depth: 28-97	Depth to Water: Pre: Dry Post:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: ve Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: _____ Flow Rate: _____ Pump Depth: _____

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
—			well	D	Dry	—		
—			NO sample collected					

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated:
Sampling Time:	Sampling Date:
Sample I.D.:	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other:
Equipment Blank I.D.: @ _____ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171003 - 17171	Client: KMEP
Sampler: RL	Start Date: 10/3/17
Well I.D.: WW-2	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 52.31	Depth to Water: Pre: 33.93 Post: 34.66
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PYS Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0857 Flow Rate: 100 mL/min Pump Depth: 47'

Time	Temp. (C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0902	22.0	7.01	2405	13	1.23	-15.0	300	34.08
0905	22.1	7.06	2417	13	1.13	-12.6	600	34.10
0908	22.2	7.04	2434	14	1.27	-27.8	900	34.11
0911	22.3	7.10	2452	14	1.41	-36.2	1200	34.12
0914	22.5	7.11	2460	14	1.49	-39.3	1800	34.13
0917	22.5	7.11	2470	14	1.33	-42.0	2400	34.14
0920	22.4	7.11	2475	13	1.11	-44.0	2700	34.15
0923	22.4	7.11	2477	13	1.09	-45.3	3000	34.16
								34.16

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: 3000 mL
Sampling Time: 0924	Sampling Date: 10/3/17
Sample I.D.: WW-2	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOCs MTBE	Other: TPH-D
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-441	Client: KMEP
Sampler: R7	Start Date: 10/3/10
Well I.D.: WcW-3	Well Diameter: 2 3 ④ 6 8
Total Well Depth: 50.50	Depth to Water: Pre: 34.83 Post: 35.01
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0948 Flow Rate: 200 ml/min Pump Depth: 45'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0951	22.2	6.99	2446	7	0.91	154.2	600	35.01
0954	22.3	6.98	2442	8	0.90	155.5	1200	35.01
0957	22.6	6.97	2446	6	0.88	136.0	1800	35.01
1000	22.3	6.97	2441	3	0.88	120.8	2400	35.01
1003	22.7	6.97	2443	2	0.87	94.8	3000	35.01
1006	22.5	6.97	2435	2	0.86	90.6	3600	35.01
1009	22.3	6.97	2435	2	0.80	70.5	4200	35.01
1012	22.1	6.97	2431	2	0.79	65.5	4800	35.01
1015	22.3	6.97	2427	1	0.78	61.3	5400	35.01

Did well dewater? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 5400ml
Sampling Time: 1016	Sampling Date: 10/3/10
Sample I.D.: WcW-3	Laboratory: Alpha Analytical
Analyzed for: TPH(g) TPHfp VOC's MTBE	Other: TPH-D
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 17002-HH1	Client: KMEP
Sampler: RD	Start Date: 10/3/17
Well I.D.: WCU-4	Well Diameter: 2 3 4 6 8
Total Well Depth: 51.63	Depth to Water: Pre: 36.83 Post: 37.05
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVG Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1054 Flow Rate: 200 mL/min Pump Depth: 46'

Time	Temp. (C or F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1057	24.2	6.93	2869	47	1.19	48.9	600	37.05
1100	24.2	6.92	2875	32	1.03	28.2	1200	37.05
1103	24.3	6.91	2889	26	1.03	17.8	1800	37.05
1106	24.5	6.90	2903	19	1.05	8.3	2400	37.05
1109	24.5	6.90	2914	16	1.04	-1.6	3000	37.05
1112	24.6	6.90	2928	12	1.06	-10.1	3600	37.05
1115	24.7	6.89	2935	11	0.90	-14.6	4200	37.05
1118	24.7	6.89	2964	11	0.84	-18.9	4800	37.05

Did well dewater? Yes No Amount actually evacuated: 4800 mL
 Sampling Time: 1119 Sampling Date: 10/3/17
 Sample I.D.: WCU-4 Laboratory: Alpha Analytical
 Analyzed for: TPHg TPHfp VOCs MTBE Other: TPHD
 Equipment Blank I.D.: @ _____ Time _____ Duplicate I.D.: _____

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555

obstruction IN well approx. 30'-36'
 hard to get pump past obstruction

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-R01	Client: KMEP
Sampler: HP	Start Date: 10/3/2017
Well I.D.: NCW-5	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 41.03	Depth to Water: Pre: 32.37 Post: 32.59
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump Morseman
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1112 Flow Rate: 200 mL/min Pump Depth: 39'

Time	Temp. (<u>C</u> or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to water
1115	27.8	7.24	2663	103	0.72	102.8	600	32.52
1118	27.4	7.23	2685	75	0.54	93.0	1200	32.55
1121	27.3	7.25	2703	61	0.53	87.9	1800	32.57
1124	26.9	7.25	2712	58	0.44	82.1	2400	32.57
1127	26.7	7.26	2708	55	0.40	80.6	3000	32.59

Did well dewater? Yes <u>No</u>	Amount actually evacuated: 3 L
Sampling Time: 1130	Sampling Date: 10/3/2017
Sample I.D.: NCW-5	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	<u>Other</u> : see C.O.C.
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-RD1	Client: KMEP
Sampler: HP	Start Date: 10/3/2017
Well I.D.: NCW-6	Well Diameter: 2 3 ④ 6 8
Total Well Depth: 51.00	Depth to Water: Pre: 34.25 Post: 34.49
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump *Morsean*
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1144 Flow Rate: 150 ml/min Pump Depth: 49'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1147	25.3	6.91	3319	131	2.44	-32.0	450	34.40
1150	24.8	6.97	3335	102	0.56	-41.6	900	34.41
1153	24.7	7.00	3332	75	0.33	-58.3	1350	34.44
1156	24.5	7.01	3343	70	0.27	-65.2	1800	34.45
1159	24.5	7.03	3346	69	0.24	-72.1	2250	34.47
1202	24.6	7.04	3348	64	0.20	-74.7	2700	34.49

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: 2.7 L
Sampling Time: 1204	Sampling Date: 10/3/2017
Sample I.D.: NCW-6	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other: <u>See C.O.C.</u>
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-HH1	Client: KMEP
Sampler: 10	Start Date: 10/6/17
Well I.D.: Wew-7	Well Diameter: 2 3 4 6 8
Total Well Depth: 49.54	Depth to Water: Pre: 35.85 Post: 36.11
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1242 Flow Rate: 150 ml/min Pump Depth: 45'

Time	Temp. (C or F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1245	28.8	6.73	4953	182	1.04	-44.3	4500	36.11
1248	28.4	6.73	4989	229	1.03	-47.1	900	36.11
1251	28.5	6.73	5139	458	1.02	-41.3	1350	36.11
1254	28.6	6.73	5130	320	0.84	-47.4	1800	36.11
1257	28.6	6.73	5128	230	0.43	-46.3	2250	36.11
1300	28.8	6.74	5126	218	0.47	-45.7	2700	36.11
1303	29.0	6.74	5126	203	0.39	-48.8	3150	36.11
1306	29.1	6.74	5126	196	0.37	-47.7	3600	36.11
1309	29.1	6.74	5121	192	0.37	-48.1	4050	36.11

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 4050 mL
Sampling Time: 1310	Sampling Date: 10/6/17
Sample I.D.: Wew-7	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOCs MTBE	Other: ESTPHD
Equipment Blank I.D.: EB-7 @ Time 1325	Duplicate I.D.:

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555
 * ROOTS IN well used Pump To Break up Roots

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>171002-RDI</u>	Client: <u>KMEP</u>
Sampler: <u>HP</u>	Start Date: <u>10/3/2017</u>
Well I.D.: <u>WCW-8</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth: <u>5154</u>	Depth to Water: Pre: <u>36.22</u> Post: <u>36.44</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> <u>Grade</u>	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump 11013002
 Sampling Method: Dedicated Tubing New Tubing Other
 Start Purge Time: 1254 Flow Rate: 200 ml/min Pump Depth: 49'

Time	Temp. (<u>C</u> or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to water
<u>1257</u>	<u>24.5</u>	<u>7.22</u>	<u>3088</u>	<u>156</u>	<u>0.62</u>	<u>-70.3</u>	<u>600</u>	<u>36.41</u>
<u>1300</u>	<u>24.5</u>	<u>7.21</u>	<u>3093</u>	<u>138</u>	<u>0.37</u>	<u>-77.1</u>	<u>changed to 150ml/min 1050</u>	<u>36.41</u>
<u>1303</u>	<u>23.9</u>	<u>7.20</u>	<u>3080</u>	<u>89</u>	<u>0.29</u>	<u>-78.9</u>	<u>1500</u>	<u>36.41</u>
<u>1306</u>	<u>23.9</u>	<u>7.20</u>	<u>3084</u>	<u>85</u>	<u>0.21</u>	<u>-79.1</u>	<u>1950</u>	<u>36.42</u>
<u>1309</u>	<u>23.8</u>	<u>7.20</u>	<u>3086</u>	<u>84</u>	<u>0.21</u>	<u>-78.6</u>	<u>2400</u>	<u>36.42</u>

Did well dewater? Yes (No) Amount actually evacuated: 2.4 L
 Sampling Time: 1310 Sampling Date: 10/3/2017
 Sample I.D.: WCW-8 Laboratory: Alpha Analytical
 Analyzed for: TPHg TPHfp VOC's MTBE Other: see C.O.C.
 Equipment Blank I.D.: @ Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 171002-HH1	Client: KMEP
Sampler: R1	Start Date: 10/3/17
Well I.D.: wew-12	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 60.00	Depth to Water: Pre: 35.26 Post: 35.43
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="checkbox"/> PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1138 Flow Rate: 300 mL/min Pump Depth: 50'

Time	Temp. (C or F)	pH	Cond. (mS/cm or μ S/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1141	23.3	7.13	2251	71000	0.81	-50.0	900	35-42
1144	23.2	7.12	2254	71000	0.76	-46.0	1800	35-42
1147	24.1	7.10	2252	71000	0.69	-43.9	2700	35-42
1150	24.1	7.09	2261	799	0.67	-42.8	3600	35-42
1153	24.3	7.09	2259	774	0.65	-43.6	4500	35-42
1156	23.9	7.09	2262	699	0.64	-46.1	5400	35-43
1159	23.6	7.09	2250	682	0.60	-47.2	6300	35-43
1202	23.5	7.09	2248	647	0.53	-48.6	7200	35-43

Did well dewater? Yes <input checked="" type="checkbox"/>	Amount actually evacuated: 7200 mL
Sampling Time: 1203	Sampling Date: 10/3/17
Sample I.D.: wew-12	Laboratory: Alpha Analytical
Analyzed for: <input checked="" type="checkbox"/> TPH <input checked="" type="checkbox"/> TPHfp <input checked="" type="checkbox"/> VOCs <input type="checkbox"/> MTBE	Other: <input checked="" type="checkbox"/> TPH D
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 176002-HH1	Client: KMEP
Sampler: RQ	Start Date: 10/3/17
Well I.D.: WCC-13	Well Diameter: 2 3 ④ 6 8
Total Well Depth: 60.39	Depth to Water: Pre: 36.65 Post: 36.84
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other
 Start Purge Time: 1224 Flow Rate: 200 mL/min Pump Depth: 55'

Time	Temp. (C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1227	23.0	7.16	2170	33	0.84	24.1	600	36.84
1230	24.2	7.16	2180	31	0.72	7.0	1200	36.84
1233	24.2	7.15	2198	33	0.68	1.3	1800	36.84
1236	24.1	7.15	2198	47	0.66	-2.5	2400	36.84
1239	23.7	7.15	2194	60	0.63	-7.2	3000	36.84
1242	23.9	7.14	2200	58	0.63	-12.5	3600	36.84
1245	23.6	7.14	2198	62	0.63	-15.7	4200	36.84

Did well dewater? Yes No Amount actually evacuated: 4200 mL

Sampling Time: 1246 Sampling Date: 10/3/17

Sample I.D.: WCC-13 Laboratory: Alpha Analytical

Analyzed for: TPH TPHp VOC's MTBE Other: TP & D

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 17002-441	Client: KMEP
Sampler: RL	Start Date: 10/3/17
Well I.D.: WCC-14	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 58.77	Depth to Water: Pre: 37.65 Post: 37.78
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1309 Flow Rate: 200 ml/min Pump Depth: 54'

Time	Temp. (C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to water
1312	23.6	7.09	2176	25	1.09	36.3	600	37.78
1315	24.0	7.06	2180	29	0.92	20.7	1200	37.78
1318	24.7	7.04	2181	32	0.90	10.6	1800	37.78
1321	24.7	7.03	2187	39	0.92	5.8	2400	37.78
1324	24.5	7.03	2179	38	0.88	-0.3	3000	37.78
1327	24.0	7.03	2176	40	0.91	-4.0	3600	37.78

Did well dewater? Yes <input checked="" type="checkbox"/> No	Amount actually evacuated: 3600 ml
Sampling Time: 1328	Sampling Date: 10/3/17
Sample I.D.: WCC-14	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOCs MTBE	Other: TPHD
Equipment Blank I.D.: @ Time	Duplicate I.D.:

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME <i>Lower D Norwalk</i>				PROJECT NUMBER <i>17002-T41</i>			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
<i>YSI Pro Plus</i>	<i>14F101236</i>	<i>10/3/17 0830</i>	<i>PH 7.00</i>	<i>7.03</i>	<i>7.00</i>	<i>23.4</i>	<i>RD</i>
			<i>↓ 10.00</i>	<i>10.06</i>	<i>10.00</i>	<i>23.1</i>	
			<i>↓ Cond 3500</i>	<i>3879</i>	<i>3900</i>	<i>23.4</i>	
			<i>↓ ORP 234.2</i>	<i>236.0</i>	<i>234.2</i>	<i>23.7</i>	
<i>↓ DO% 100</i>	<i>106.2%</i>	<i>99.79%</i>	<i>22.3</i>	<i>RD</i>			
<i>YSI Pro Plus</i>	<i>14F101236</i>	<i>10/4/17 0645</i>	<i>PH 7.00</i>	<i>6.96</i>	<i>7.00</i>	<i>20.4</i>	<i>RD</i>
			<i>↓ 10.00</i>	<i>9.98</i>	<i>10.00</i>	<i>20.5</i>	
			<i>↓ Cond 3900</i>	<i>3894</i>	<i>3900</i>	<i>20.5</i>	
			<i>↓ ORP 238.6</i>	<i>237.2</i>	<i>238.6</i>	<i>19.5</i>	
<i>↓ DO% 100</i>	<i>103.6%</i>	<i>99.99%</i>	<i>20.5</i>	<i>RD</i>			
<i>YSI Pro Plus</i>	<i>14F101236</i>	<i>10/5/17 0645</i>	<i>PH 7.06</i>	<i>7.02</i>	<i>7.00</i>	<i>17.1</i>	<i>RD</i>
			<i>↓ 10.00</i>	<i>10.04</i>	<i>10.00</i>	<i>17.3</i>	
			<i>↓ Cond 3900</i>	<i>3910</i>	<i>3900</i>	<i>17.4</i>	
			<i>↓ ORP 240.3</i>	<i>239.6</i>	<i>240.3</i>	<i>17.7</i>	
<i>↓ DO% 100</i>	<i>104.6%</i>	<i>99.7%</i>	<i>18.3</i>	<i>RD</i>			

APPENDIX B
ADDITIONAL GAUGING DATA

MONITORING WELL GAUGING DATA
Additional Wells - October 2017
Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Date Measured	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Notes	
EP-71	10/4/2017	————	36.08	————	TD. 42.70	
EP-73	↓	35.31	36.55	0.24	TD. 42.60	
EP-74		————	35.85	————	TD. 43.08	
BSP-10		————	34.01	————	TD. 46.10	
BSP-11		————	33.43	————	TD. 40.95	
BSP-12		————	33.25	————	TD. 46.00	
BSP-13		————	33.38	————	TD. 46.10	
BSP-14		————	33.27	————	TD. 46.30	
BSP-15		10/5/2017	————	34.65	————	TD. 52.80
BSP-16		————	————	35.06	————	TD. 51.20
BSP-17		————	————	34.40	————	TD. 51.45
BSP-18		————	————	34.16	————	TD. 50.45
BSP-19		————	————	35.11	————	TD. 52.10
BSP-20		————	————	34.98	————	TD. 53.10
VEW-38		————	————	30.63	————	TD. 32.45
VEW-39	————	————	30.50	————	TD. 30.55	
VEW-40	————	————	31.14	————	TD. 32.50	
RW-1 (VE)	————	————	36.93	————	TD. 37.35 Toc	
* RW-1 (BSP)	————	————	————	————	————	
RW-2 (VE)	————	————	36.85	————	TD. 40.65 Toc	
* RW-2 (BSP)	————	————	————	————	————	
RW-3 (VE)	————	————	34.96	————	TD. 40.40 Toc	
* RW-3 (BSP)	————	————	————	————	————	
RW-4 (VE)	————	————	34.11	————	TD. 35.40 Toc	
* RW-4 (BSP)	————	————	————	————	————	
RW-5 (VE)	————	————	33.07	————	TD. 35.35 Toc	
* RW-5 (BSP)	↓	————	————	————	————	

*. WELLS THAT HAVE BEEN GAUGED & TD DURING THEIR DEVELOPMENT SEPTEMBER 25TH, 26TH, 27TH & 28TH

MONITORING WELL GAUGING DATA
Additional Wells - October 2017
Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Date Measured	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Notes
RW-6 (VE)	10/5/2017	————	37.42	————	TD.40.35 Toc
* RW-6 (BSP)					
RW-7 (VE)		————	37.63	————	TD.40.55 Toc
* RW-7 (BSP)					
RW-8 (VE)		————	34.80	————	TD.40.40 Toc
* RW-8 (BSP)					
RW-9 (VE)		————	35.28	————	TD.35.60 Toc
* RW-9 (BSP)					
RW-10 (VE)		————	34.52	————	TD.35.40 Toc
* RW-10 (BSP)					
RW-11 (VE)		————	37.88	————	TD.40.40 Toc
* RW-11 (BSP)					
RW-12 (VE)		————	36.50	————	TD.36.95 Toc
* RW-12 (BSP)					
RW-13 (VE)		————	36.08	————	TD.37.80 Toc
* RW-13 (BSP)					
RW-14 (VE)		————	34.45	————	TD.35.40 Toc
* RW-14 (BSP)					
RW-15 (VE)		————	36.07	————	TD.40.40 Toc
* RW-15 (BSP)					
RW-16 (VE)	————	35.04	————	TD.35.40 Toc	
* RW-16 (BSP)					
RW-17 (VE)	————	35.01	————	TD.39.55 Toc	
* RW-17 (BSP)					
RW-18 (VE)	————	36.32	————	TD.40.60 Toc	
* RW-18 (BSP)					
RW-19 (VE)	↓	————	34.55	————	TD.35.35 Toc

*. Wells that have been gauged & TD during their development September 25, 26, 27 & 28th
The Source Group, Inc.

MONITORING WELL GAUGING DATA
Additional Wells - October 2017
Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

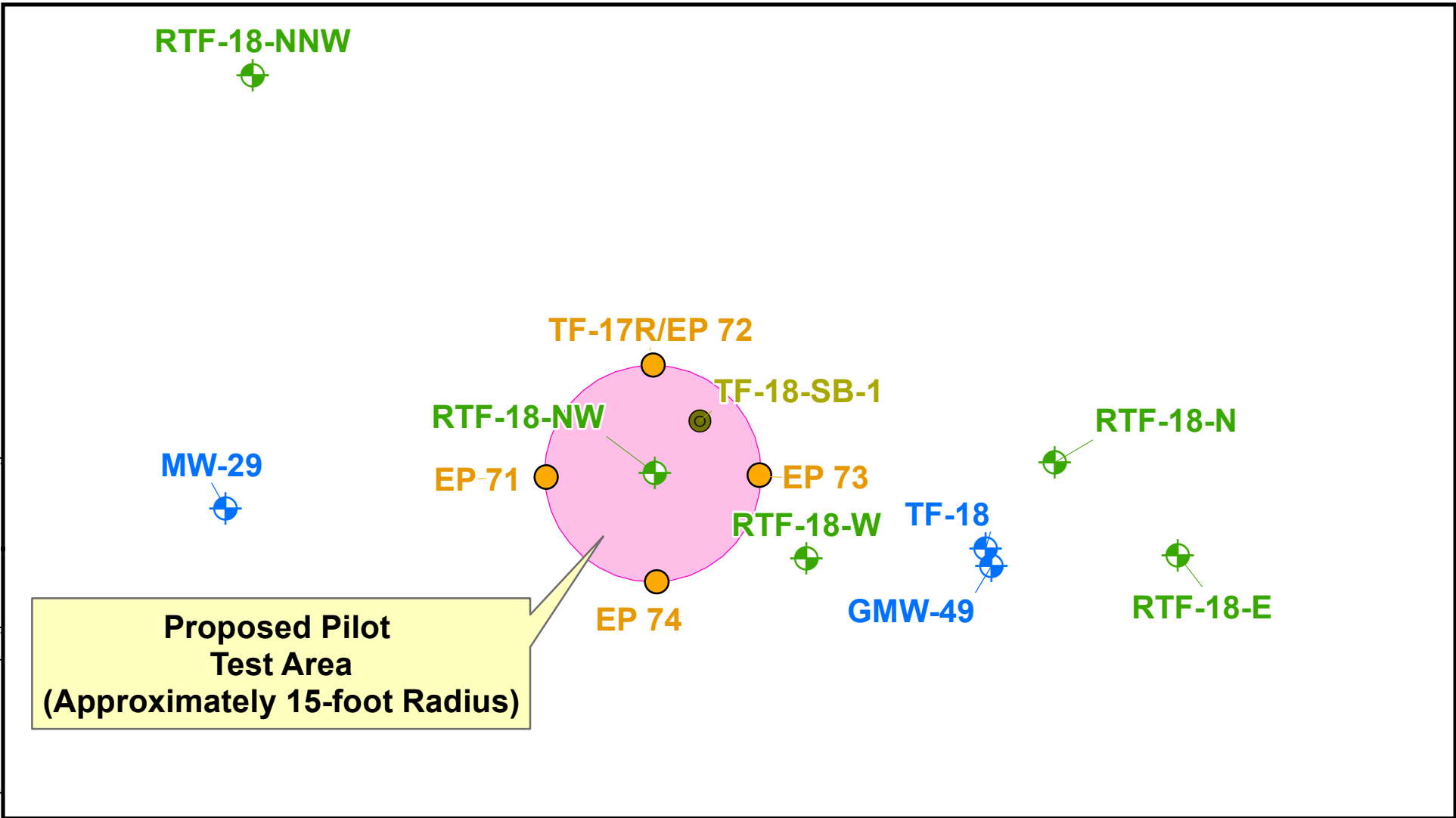
Well ID	Date Measured	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Notes	
* RW-19 (BSP)	10/9/2017					
RW-20 (VE)	↓	—	34.68	—	TD. 35.63 Toc	
* RW-20 (BSP)						
RW-21 (VE)		—	34.98	—	TD. 35.35 Toc	
* RW-21 (BSP)						
RW-22 (VE)		—	34.15	—	TD. 35.25 Toc	
* RW-22 (BSP)						
RW-23 (VE)		—	33.05	—	TD. 35.60 Toc	
* RW-23 (BSP)						
RW-24 (VE)		10/12/2017	—	33.91	—	TD. 34.33 Toc
* RW-24 (BSP)						
RW-25 (VE)		—	33.90	—	TD. 35.37 Toc	
* RW-25 (BSP)						
RW-26 (VE)		—	34.05	—	TD. 34.35 Toc	
* RW-26 (BSP)						
RW-27 (VE)		—	34.29	—	TD. 35.35 Toc	
* RW-27 (BSP)						
RW-28 (VE)		—	34.35	—	TD. 35.55 Toc	
* RW-28 (BSP)						
RW-29 (VE)		—	33.50	—	TD. 35.60 Toc	
* RW-29 (BSP)						
RW-30 (VE)	—	35.04	—	TD. 35.50 Toc		
* RW-30 (BSP)						
RW-31 (VE)	—	34.55	—	TD. 35.95 Toc		
* RW-31 (BSP)						
RW-32 (VE)	—	32.33	—	TD. 32.35 Toc		
* RW-32 (BSP)						

* Wells that have been gauged & TD during their development September 25th, 26th, 27th & 28th

MONITORING WELL GAUGING DATA
Additional Wells - October 2017
Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650





Well ID	Date Measured	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Notes
RW-33 (VE)	10/12/2017	—	34.28	—	TD.35.30 Toc
* RW-33 (BSP)	↓				
RW-34 (VE)		—	33.47	—	TD.34.30 Toc
* RW-34 (BSP)					

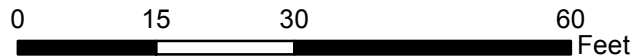
*. Wells that have been gauged & TD during their development September 25, 26, 27 & 28th




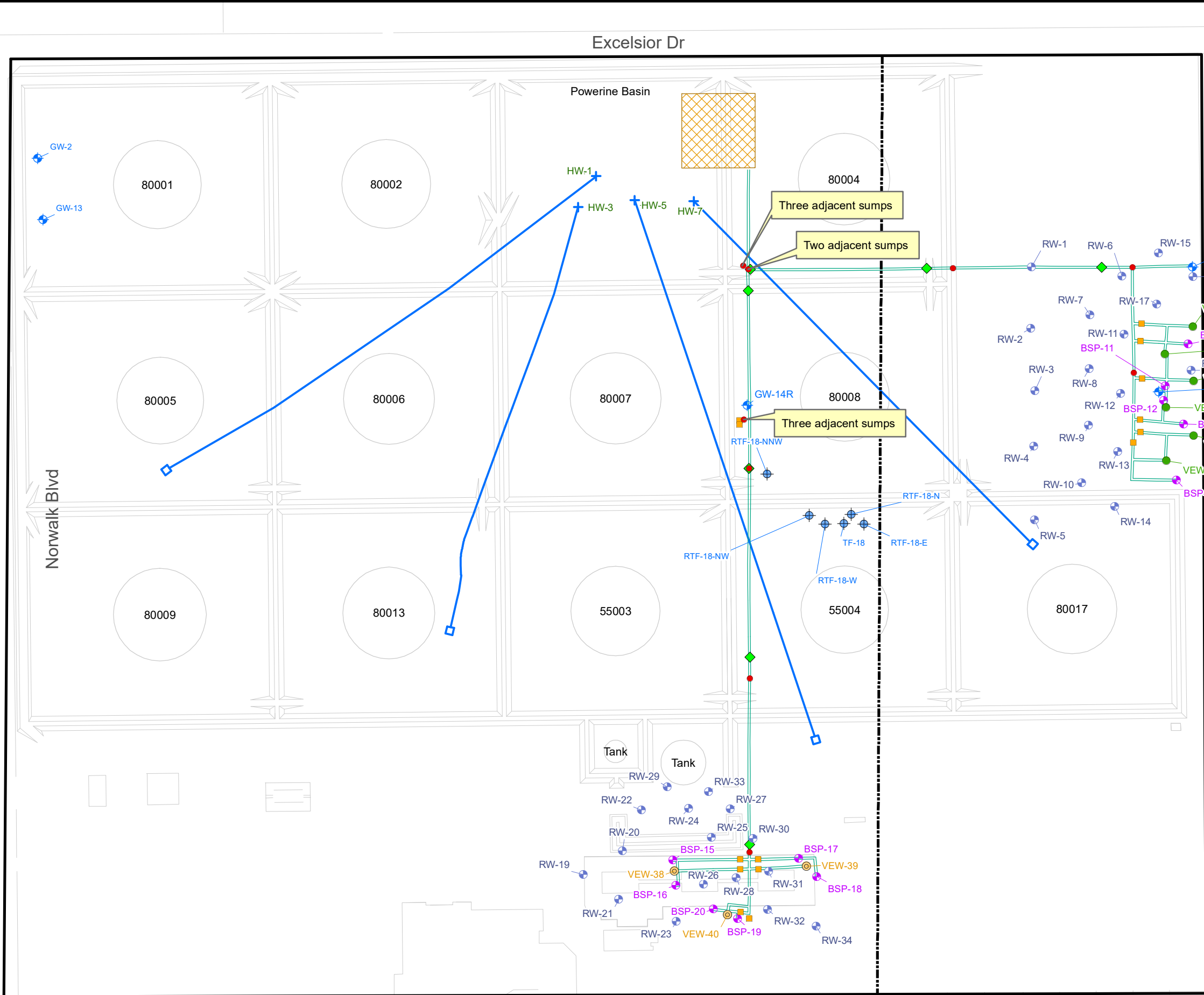
Proposed Pilot Test Area (Approximately 15-foot Radius)

Legend

-  Pilot Test Wells
-  RTF Wells around TF-18 (Installed 2016)
-  Groundwater Monitoring Wells
-  Soil Boring



Project Number:	Date:	Drawn By:	Approved By:
04-NDLA-007	07/12/2017	PW	PP
DFSP Norwalk 15306 Norwalk Boulevard Norwalk, California			
Soil Boring and Pilot Test Well Locations			
 THE SOURCE GROUP, INC. 1962 Freeman Avenue Signal Hill, CA 90755 (562) 597-1055			Figure 4

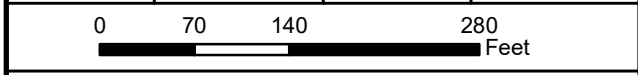


Legend

- Former Above Ground Storage Tanks
- DFSP Norwalk Border
- Existing Treatment System
- Below Grade Trenching and Piping to Remediation Wells
- Existing Horizontal Vapor Extraction Wells
- Western Boundary of Eastern 15-Acre Parcel
- Groundwater Extraction Wells
- Biosparging Wells (November 2016)
- Vapor Extraction Wells (November 2016)
- Vapor Extraction Wells (April 2007)
- Biosparging and Vapor Extraction Wells (July 2017)
- Access Vaults for Groundwater Extraction Piping
- Condensate Sump for Vapor Extraction Piping
- Remediation System Control Vaults

DFSP Norwalk
15306 Norwalk Boulevard
Norwalk, California

Project Number:	Date:	Drawn By:	Approved By:
04-NDLA-007	08/01/2017	PW	BT



Dual Biosparging and SVE Well Locations

		<p align="center">Figure 5</p>
	<p>1962 Freeman Avenue Signal Hill, CA 90755 (562) 597-1055</p>	

APPENDIX C

LABORATORY REPORTS (CD ROM ONLY)



9765 Eton Avenue
Chatsworth
California 91311
Tel: (818) 998-5547
Fax: (818) 998-7258

October 18, 2017

Neil Irish

The Source Group, Inc. (SH)
1962 Freeman Ave.
Signal Hill, CA 90755

**Re : DFSP Norwalk GW Sampling / 04-NDLA-013
A5332319 / 7J04015**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 10/04/17 13:47 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytics.

Sincerely,

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
<u>8260B+OXY+TPHG</u>					
QCTB-1	7J04015-01	Water	5	10/02/17 06:00	10/04/17 13:47
QCEB-1	7J04015-02	Water	5	10/02/17 08:00	10/04/17 13:47
QCEB-1	7J04015-15	Water	5	10/03/17 07:45	10/04/17 13:47
<u>8260B+OXYGENATES</u>					
GMW-64	7J04015-03	Water	5	10/02/17 09:45	10/04/17 13:47
GMW-63	7J04015-04	Water	5	10/02/17 09:05	10/04/17 13:47
GMW-65	7J04015-05	Water	5	10/02/17 10:15	10/04/17 13:47
GMW-67	7J04015-06	Water	5	10/02/17 10:55	10/04/17 13:47
GMW-69	7J04015-07	Water	5	10/02/17 11:30	10/04/17 13:47
GW-3	7J04015-08	Water	5	10/02/17 13:50	10/04/17 13:47
EXP-2	7J04015-09	Water	5	10/02/17 14:20	10/04/17 13:47
MW-24	7J04015-10	Water	5	10/02/17 14:55	10/04/17 13:47
GW-8	7J04015-11	Water	5	10/03/17 08:30	10/04/17 13:47
GMW-42	7J04015-12	Water	5	10/03/17 09:10	10/04/17 13:47
GMW-44	7J04015-13	Water	5	10/03/17 09:50	10/04/17 13:47
GMW-19	7J04015-14	Water	5	10/03/17 10:30	10/04/17 13:47
GMW-6	7J04015-16	Water	5	10/03/17 12:20	10/04/17 13:47
DUP-2	7J04015-17	Water	5	10/03/17 00:00	10/04/17 13:47

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
GMW-56	7J04015-18	Water	5	10/03/17 13:00	10/04/17 13:47
MW-13	7J04015-19	Water	5	10/03/17 13:35	10/04/17 13:47
GW-16	7J04015-20	Water	5	10/03/17 14:15	10/04/17 13:47
MW-17	7J04015-21	Water	5	10/03/17 14:50	10/04/17 13:47
DUP-1	7J04015-22	Water	5	10/02/17 00:00	10/04/17 13:47

Diesel Range Organics 8015M

GMW-64	7J04015-03	Water	5	10/02/17 09:45	10/04/17 13:47
GMW-63	7J04015-04	Water	5	10/02/17 09:05	10/04/17 13:47
GMW-65	7J04015-05	Water	5	10/02/17 10:15	10/04/17 13:47
GMW-67	7J04015-06	Water	5	10/02/17 10:55	10/04/17 13:47
GMW-69	7J04015-07	Water	5	10/02/17 11:30	10/04/17 13:47
GW-3	7J04015-08	Water	5	10/02/17 13:50	10/04/17 13:47
EXP-2	7J04015-09	Water	5	10/02/17 14:20	10/04/17 13:47
MW-24	7J04015-10	Water	5	10/02/17 14:55	10/04/17 13:47
GW-8	7J04015-11	Water	5	10/03/17 08:30	10/04/17 13:47
GMW-42	7J04015-12	Water	5	10/03/17 09:10	10/04/17 13:47
GMW-44	7J04015-13	Water	5	10/03/17 09:50	10/04/17 13:47
GMW-19	7J04015-14	Water	5	10/03/17 10:30	10/04/17 13:47
GMW-6	7J04015-16	Water	5	10/03/17 12:20	10/04/17 13:47
DUP-2	7J04015-17	Water	5	10/03/17 00:00	10/04/17 13:47

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
GMW-56	7J04015-18	Water	5	10/03/17 13:00	10/04/17 13:47
MW-13	7J04015-19	Water	5	10/03/17 13:35	10/04/17 13:47
GW-16	7J04015-20	Water	5	10/03/17 14:15	10/04/17 13:47
MW-17	7J04015-21	Water	5	10/03/17 14:50	10/04/17 13:47
DUP-1	7J04015-22	Water	5	10/02/17 00:00	10/04/17 13:47

Gasoline Range Organics 8015M

GMW-64	7J04015-03	Water	5	10/02/17 09:45	10/04/17 13:47
GMW-63	7J04015-04	Water	5	10/02/17 09:05	10/04/17 13:47
GMW-65	7J04015-05	Water	5	10/02/17 10:15	10/04/17 13:47
GMW-67	7J04015-06	Water	5	10/02/17 10:55	10/04/17 13:47
GMW-69	7J04015-07	Water	5	10/02/17 11:30	10/04/17 13:47
GW-3	7J04015-08	Water	5	10/02/17 13:50	10/04/17 13:47
EXP-2	7J04015-09	Water	5	10/02/17 14:20	10/04/17 13:47
MW-24	7J04015-10	Water	5	10/02/17 14:55	10/04/17 13:47
GW-8	7J04015-11	Water	5	10/03/17 08:30	10/04/17 13:47
GMW-42	7J04015-12	Water	5	10/03/17 09:10	10/04/17 13:47
GMW-44	7J04015-13	Water	5	10/03/17 09:50	10/04/17 13:47
GMW-19	7J04015-14	Water	5	10/03/17 10:30	10/04/17 13:47
GMW-6	7J04015-16	Water	5	10/03/17 12:20	10/04/17 13:47
DUP-2	7J04015-17	Water	5	10/03/17 00:00	10/04/17 13:47

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
GMW-56	7J04015-18	Water	5	10/03/17 13:00	10/04/17 13:47
MW-13	7J04015-19	Water	5	10/03/17 13:35	10/04/17 13:47
GW-16	7J04015-20	Water	5	10/03/17 14:15	10/04/17 13:47
MW-17	7J04015-21	Water	5	10/03/17 14:50	10/04/17 13:47
DUP-1	7J04015-22	Water	5	10/02/17 00:00	10/04/17 13:47

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs, OXY & TPH Gasoline by GC/MS

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/02/17	10/02/17	10/03/17	
Date Prepared:	10/06/17	10/06/17	10/06/17	
Date Analyzed:	10/06/17	10/06/17	10/06/17	
AA ID No:	7J04015-01	7J04015-02	7J04015-15	
Client ID No:	QCTB-1	QCEB-1	QCEB-1	
Matrix:	Water	Water	Water	
Dilution Factor:	1	1	1	MRL

8260B+OXY+TPHG (EPA 8260B)

Acetone	<10	<10	<10	10
tert-Amyl Methyl Ether (TAME)	<2.0	<2.0	<2.0	2.0
Benzene	<0.50	<0.50	<0.50	0.50
Bromobenzene	<0.50	<0.50	<0.50	0.50
Bromochloromethane	<0.50	<0.50	<0.50	0.50
Bromodichloromethane	<0.50	<0.50	<0.50	0.50
Bromoform	<0.50	<0.50	<0.50	0.50
Bromomethane	<0.50	<0.50	<0.50	0.50
2-Butanone (MEK)	<10	<10	<10	10
tert-Butyl alcohol (TBA)	<10	<10	<10	10
sec-Butylbenzene	<0.50	<0.50	<0.50	0.50
tert-Butylbenzene	<0.50	<0.50	<0.50	0.50
n-Butylbenzene	<0.50	<0.50	<0.50	0.50
Carbon Disulfide	<0.50	<0.50	<0.50	0.50
Carbon Tetrachloride	<0.50	<0.50	<0.50	0.50
Chlorobenzene	<0.50	<0.50	<0.50	0.50
Chloroethane	<0.50	<0.50	<0.50	0.50
Chloroform	<0.50	<0.50	<0.50	0.50
Chloromethane	<0.50	<0.50	<0.50	0.50
2-Chlorotoluene	<0.50	<0.50	<0.50	0.50
4-Chlorotoluene	<0.50	<0.50	<0.50	0.50
1,2-Dibromo-3-chloropropane	<1.0	<1.0	<1.0	1.0
Dibromochloromethane	<0.50	<0.50	<0.50	0.50
1,2-Dibromoethane (EDB)	<0.50	<0.50	<0.50	0.50
Dibromomethane	<0.50	<0.50	<0.50	0.50
1,3-Dichlorobenzene	<0.50	<0.50	<0.50	0.50
1,2-Dichlorobenzene	<0.50	<0.50	<0.50	0.50

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs, OXY & TPH Gasoline by GC/MS

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/02/17	10/02/17	10/03/17	
Date Prepared:	10/06/17	10/06/17	10/06/17	
Date Analyzed:	10/06/17	10/06/17	10/06/17	
AA ID No:	7J04015-01	7J04015-02	7J04015-15	
Client ID No:	QCTB-1	QCEB-1	QCEB-1	
Matrix:	Water	Water	Water	
Dilution Factor:	1	1	1	MRL

8260B+OXY+TPHG (EPA 8260B) (continued)

1,4-Dichlorobenzene	<0.50	<0.50	<0.50	0.50
Dichlorodifluoromethane (R12)	<0.50	<0.50	<0.50	0.50
1,1-Dichloroethane	<0.50	<0.50	<0.50	0.50
1,2-Dichloroethane (EDC)	<0.50	<0.50	<0.50	0.50
1,1-Dichloroethylene	<0.50	<0.50	<0.50	0.50
trans-1,2-Dichloroethylene	<0.50	<0.50	<0.50	0.50
cis-1,2-Dichloroethylene	<0.50	<0.50	<0.50	0.50
1,2-Dichloropropane	<0.50	<0.50	<0.50	0.50
2,2-Dichloropropane	<0.50	<0.50	<0.50	0.50
1,3-Dichloropropane	<0.50	<0.50	<0.50	0.50
cis-1,3-Dichloropropylene	<0.50	<0.50	<0.50	0.50
trans-1,3-Dichloropropylene	<0.50	<0.50	<0.50	0.50
1,1-Dichloropropylene	<0.50	<0.50	<0.50	0.50
Diisopropyl ether (DIPE)	<2.0	<2.0	<2.0	2.0
Ethylbenzene	<0.50	<0.50	<0.50	0.50
Ethyl-tert-Butyl Ether (ETBE)	<2.0	<2.0	<2.0	2.0
Gasoline Range Organics (GRO)	<100	<100	<100	100
Hexachlorobutadiene	<1.0	<1.0	<1.0	1.0
2-Hexanone (MBK)	<10	<10	<10	10
Isopropylbenzene	<0.50	<0.50	<0.50	0.50
4-Isopropyltoluene	<1.0	<1.0	<1.0	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.0	<1.0	<1.0	1.0
Methylene Chloride	<5.0	<5.0	<5.0	5.0
4-Methyl-2-pentanone (MIBK)	<10	<10	<10	10
Naphthalene	<2.0	<2.0	<2.0	2.0
n-Propylbenzene	<0.50	<0.50	<0.50	0.50

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs, OXY & TPH Gasoline by GC/MS

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/02/17	10/02/17	10/03/17	
Date Prepared:	10/06/17	10/06/17	10/06/17	
Date Analyzed:	10/06/17	10/06/17	10/06/17	
AA ID No:	7J04015-01	7J04015-02	7J04015-15	
Client ID No:	QCTB-1	QCEB-1	QCEB-1	
Matrix:	Water	Water	Water	
Dilution Factor:	1	1	1	MRL

8260B+OXY+TPHG (EPA 8260B) (continued)

Styrene	<0.50	<0.50	<0.50	0.50
1,1,1,2-Tetrachloroethane	<0.50	<0.50	<0.50	0.50
1,1,2,2-Tetrachloroethane	<0.50	<0.50	<0.50	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	<0.50	0.50
Toluene	<0.50	<0.50	<0.50	0.50
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	0.50
1,2,4-Trichlorobenzene	<0.50	<0.50	<0.50	0.50
1,1,1-Trichloroethane	<0.50	<0.50	<0.50	0.50
1,1,2-Trichloroethane	<0.50	<0.50	<0.50	0.50
Trichloroethylene (TCE)	<0.50	<0.50	<0.50	0.50
Trichlorofluoromethane (R11)	<0.50	<0.50	<0.50	0.50
1,2,3-Trichloropropane	<0.50	<0.50	<0.50	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	<0.50	<0.50	0.50
1,3,5-Trimethylbenzene	<0.50	<0.50	<0.50	0.50
1,2,4-Trimethylbenzene	<0.50	<0.50	<0.50	0.50
Vinyl chloride	<0.50	<0.50	<0.50	0.50
o-Xylene	<0.50	<0.50	<0.50	0.50
m,p-Xylenes	<1.0	<1.0	<1.0	1.0

Surrogates

				%REC Limits
4-Bromofluorobenzene	99%	95%	97%	70-140
Dibromofluoromethane	92%	111%	111%	70-140
Toluene-d8	102%	95%	95%	70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/02/17	10/02/17	10/02/17	10/02/17	
Date Prepared:	10/09/17	10/09/17	10/09/17	10/09/17	
Date Analyzed:	10/09/17	10/09/17	10/09/17	10/09/17	
AA ID No:	7J04015-03	7J04015-04	7J04015-05	7J04015-06	
Client ID No:	GMW-64	GMW-63	GMW-65	GMW-67	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

8260B+OXYGENATES (EPA 8260B)

Acetone	<10	<10	<10	<10	10
tert-Amyl Methyl Ether (TAME)	<2.0	<2.0	<2.0	<2.0	2.0
Benzene	<0.50	<0.50	<0.50	2.6	0.50
Bromobenzene	<0.50	<0.50	<0.50	<0.50	0.50
Bromochloromethane	<0.50	<0.50	<0.50	<0.50	0.50
Bromodichloromethane	<0.50	<0.50	<0.50	<0.50	0.50
Bromoform	<0.50	<0.50	<0.50	<0.50	0.50
Bromomethane	<0.50	<0.50	<0.50	<0.50	0.50
2-Butanone (MEK)	<10	<10	<10	<10	10
tert-Butyl alcohol (TBA)	<10	<10	<10	<10	10
sec-Butylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
tert-Butylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
n-Butylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
Carbon Disulfide	<0.50	<0.50	<0.50	<0.50	0.50
Carbon Tetrachloride	<0.50	<0.50	<0.50	<0.50	0.50
Chlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
Chloroethane	<0.50	<0.50	<0.50	<0.50	0.50
Chloroform	<0.50	<0.50	<0.50	<0.50	0.50
Chloromethane	<0.50	<0.50	<0.50	<0.50	0.50
2-Chlorotoluene	<0.50	<0.50	<0.50	<0.50	0.50
4-Chlorotoluene	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dibromo-3-chloropropane	<1.0	<1.0	<1.0	<1.0	1.0
Dibromochloromethane	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dibromoethane (EDB)	<0.50	<0.50	<0.50	<0.50	0.50
Dibromomethane	<0.50	<0.50	<0.50	<0.50	0.50
1,3-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/02/17	10/02/17	10/02/17	10/02/17	
Date Prepared:	10/09/17	10/09/17	10/09/17	10/09/17	
Date Analyzed:	10/09/17	10/09/17	10/09/17	10/09/17	
AA ID No:	7J04015-03	7J04015-04	7J04015-05	7J04015-06	
Client ID No:	GMW-64	GMW-63	GMW-65	GMW-67	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

8260B+OXYGENATES (EPA 8260B) (continued)

1,4-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
Dichlorodifluoromethane (R12)	<0.50	<0.50	<0.50	<0.50	0.50
1,1-Dichloroethane	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dichloroethane (EDC)	<0.50	<0.50	<0.50	<0.50	0.50
1,1-Dichloroethylene	<0.50	<0.50	<0.50	<0.50	0.50
trans-1,2-Dichloroethylene	<0.50	<0.50	<0.50	<0.50	0.50
cis-1,2-Dichloroethylene	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50	0.50
2,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50	0.50
1,3-Dichloropropane	<0.50	<0.50	<0.50	<0.50	0.50
cis-1,3-Dichloropropylene	<0.50	<0.50	<0.50	<0.50	0.50
trans-1,3-Dichloropropylene	<0.50	<0.50	<0.50	<0.50	0.50
1,1-Dichloropropylene	<0.50	<0.50	<0.50	<0.50	0.50
Diisopropyl ether (DIPE)	<2.0	<2.0	<2.0	<2.0	2.0
Ethylbenzene	<0.50	<0.50	<0.50	0.70	0.50
Ethyl-tert-Butyl Ether (ETBE)	<2.0	<2.0	<2.0	<2.0	2.0
Hexachlorobutadiene	<1.0	<1.0	<1.0	<1.0	1.0
2-Hexanone (MBK)	<10	<10	<10	<10	10
Isopropylbenzene	<0.50	<0.50	<0.50	2.2	0.50
4-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.0	<1.0	<1.0	<1.0	1.0
Methylene Chloride	<5.0	<5.0	<5.0	<5.0	5.0
4-Methyl-2-pentanone (MIBK)	<10	<10	<10	<10	10
Naphthalene	<2.0	<2.0	<2.0	6.3	2.0
n-Propylbenzene	<0.50	<0.50	<0.50	1.2	0.50
Styrene	<0.50	<0.50	<0.50	<0.50	0.50
1,1,1,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	0.50

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/02/17	10/02/17	10/02/17	10/02/17	
Date Prepared:	10/09/17	10/09/17	10/09/17	10/09/17	
Date Analyzed:	10/09/17	10/09/17	10/09/17	10/09/17	
AA ID No:	7J04015-03	7J04015-04	7J04015-05	7J04015-06	
Client ID No:	GMW-64	GMW-63	GMW-65	GMW-67	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

8260B+OXYGENATES (EPA 8260B) (continued)

1,1,2,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	<0.50	<0.50	0.50
Toluene	<0.50	<0.50	<0.50	<0.50	0.50
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
1,2,4-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
1,1,1-Trichloroethane	<0.50	<0.50	<0.50	<0.50	0.50
1,1,2-Trichloroethane	<0.50	<0.50	<0.50	<0.50	0.50
Trichloroethylene (TCE)	<0.50	<0.50	<0.50	<0.50	0.50
Trichlorofluoromethane (R11)	<0.50	<0.50	<0.50	<0.50	0.50
1,2,3-Trichloropropane	<0.50	<0.50	<0.50	<0.50	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	<0.50	<0.50	<0.50	0.50
1,3,5-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
1,2,4-Trimethylbenzene	<0.50	<0.50	<0.50	0.85	0.50
Vinyl chloride	<0.50	<0.50	<0.50	<0.50	0.50
o-Xylene	<0.50	<0.50	<0.50	0.51	0.50
m,p-Xylenes	<1.0	<1.0	<1.0	<1.0	1.0

Surrogates

					%REC Limits
4-Bromofluorobenzene	101%	101%	96%	97%	70-140
Dibromofluoromethane	88%	101%	113%	111%	70-140
Toluene-d8	105%	97%	95%	96%	70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/02/17	10/02/17	10/02/17	10/02/17	
Date Prepared:	10/09/17	10/09/17	10/09/17	10/09/17	
Date Analyzed:	10/09/17	10/09/17	10/09/17	10/09/17	
AA ID No:	7J04015-07	7J04015-08	7J04015-09	7J04015-10	
Client ID No:	GMW-69	GW-3	EXP-2	MW-24	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	2	1	1	1	MRL

8260B+OXYGENATES (EPA 8260B)

Acetone	<20	<10	<10	<10	10
tert-Amyl Methyl Ether (TAME)	<4.0	<2.0	<2.0	<2.0	2.0
Benzene	220	2.4	1.4	1.0	0.50
Bromobenzene	<1.0	<0.50	<0.50	<0.50	0.50
Bromochloromethane	<1.0	<0.50	<0.50	<0.50	0.50
Bromodichloromethane	<1.0	<0.50	<0.50	<0.50	0.50
Bromoform	<1.0	<0.50	<0.50	<0.50	0.50
Bromomethane	<1.0	<0.50	<0.50	<0.50	0.50
2-Butanone (MEK)	<20	<10	<10	<10	10
tert-Butyl alcohol (TBA)	<20	<10	<10	<10	10
sec-Butylbenzene	<1.0	<0.50	<0.50	<0.50	0.50
tert-Butylbenzene	<1.0	<0.50	<0.50	<0.50	0.50
n-Butylbenzene	3.4	<0.50	<0.50	<0.50	0.50
Carbon Disulfide	<1.0	<0.50	<0.50	<0.50	0.50
Carbon Tetrachloride	<1.0	<0.50	<0.50	<0.50	0.50
Chlorobenzene	<1.0	<0.50	<0.50	<0.50	0.50
Chloroethane	<1.0	<0.50	<0.50	<0.50	0.50
Chloroform	<1.0	<0.50	<0.50	<0.50	0.50
Chloromethane	<1.0	<0.50	<0.50	<0.50	0.50
2-Chlorotoluene	<1.0	<0.50	<0.50	<0.50	0.50
4-Chlorotoluene	<1.0	<0.50	<0.50	<0.50	0.50
1,2-Dibromo-3-chloropropane	<2.0	<1.0	<1.0	<1.0	1.0
Dibromochloromethane	<1.0	<0.50	<0.50	<0.50	0.50
1,2-Dibromoethane (EDB)	<1.0	<0.50	<0.50	<0.50	0.50
Dibromomethane	<1.0	<0.50	<0.50	<0.50	0.50
1,3-Dichlorobenzene	<1.0	<0.50	<0.50	<0.50	0.50
1,2-Dichlorobenzene	<1.0	<0.50	<0.50	<0.50	0.50

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/02/17	10/02/17	10/02/17	10/02/17	
Date Prepared:	10/09/17	10/09/17	10/09/17	10/09/17	
Date Analyzed:	10/09/17	10/09/17	10/09/17	10/09/17	
AA ID No:	7J04015-07	7J04015-08	7J04015-09	7J04015-10	
Client ID No:	GMW-69	GW-3	EXP-2	MW-24	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	2	1	1	1	MRL

8260B+OXYGENATES (EPA 8260B) (continued)

1,4-Dichlorobenzene	<1.0	<0.50	<0.50	<0.50	0.50
Dichlorodifluoromethane (R12)	<1.0	<0.50	<0.50	<0.50	0.50
1,1-Dichloroethane	<1.0	<0.50	<0.50	<0.50	0.50
1,2-Dichloroethane (EDC)	<1.0	<0.50	<0.50	<0.50	0.50
1,1-Dichloroethylene	<1.0	<0.50	<0.50	<0.50	0.50
trans-1,2-Dichloroethylene	<1.0	<0.50	<0.50	<0.50	0.50
cis-1,2-Dichloroethylene	<1.0	<0.50	<0.50	<0.50	0.50
1,2-Dichloropropane	<1.0	<0.50	<0.50	<0.50	0.50
2,2-Dichloropropane	<1.0	<0.50	<0.50	<0.50	0.50
1,3-Dichloropropane	<1.0	<0.50	<0.50	<0.50	0.50
cis-1,3-Dichloropropylene	<1.0	<0.50	<0.50	<0.50	0.50
trans-1,3-Dichloropropylene	<1.0	<0.50	<0.50	<0.50	0.50
1,1-Dichloropropylene	<1.0	<0.50	<0.50	<0.50	0.50
Diisopropyl ether (DIPE)	<4.0	<2.0	<2.0	<2.0	2.0
Ethylbenzene	210	6.0	5.4	4.7	0.50
Ethyl-tert-Butyl Ether (ETBE)	<4.0	<2.0	<2.0	<2.0	2.0
Hexachlorobutadiene	<2.0	<1.0	<1.0	<1.0	1.0
2-Hexanone (MBK)	<20	<10	<10	<10	10
Isopropylbenzene	40	0.79	0.72	0.61	0.50
4-Isopropyltoluene	<2.0	<1.0	<1.0	<1.0	1.0
Methyl-tert-Butyl Ether (MTBE)	<2.0	<1.0	<1.0	<1.0	1.0
Methylene Chloride	<10	<5.0	<5.0	<5.0	5.0
4-Methyl-2-pentanone (MIBK)	<20	<10	<10	<10	10
Naphthalene	61	2.4	<2.0	<2.0	2.0
n-Propylbenzene	43	0.75	0.63	0.57	0.50
Styrene	<1.0	<0.50	<0.50	<0.50	0.50
1,1,1,2-Tetrachloroethane	<1.0	<0.50	<0.50	<0.50	0.50

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/02/17	10/02/17	10/02/17	10/02/17	
Date Prepared:	10/09/17	10/09/17	10/09/17	10/09/17	
Date Analyzed:	10/09/17	10/09/17	10/09/17	10/09/17	
AA ID No:	7J04015-07	7J04015-08	7J04015-09	7J04015-10	
Client ID No:	GMW-69	GW-3	EXP-2	MW-24	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	2	1	1	1	MRL

8260B+OXYGENATES (EPA 8260B) (continued)

1,1,2,2-Tetrachloroethane	<1.0	<0.50	<0.50	<0.50	0.50
Tetrachloroethylene (PCE)	<1.0	<0.50	<0.50	<0.50	0.50
Toluene	<1.0	<0.50	<0.50	<0.50	0.50
1,2,3-Trichlorobenzene	<1.0	<0.50	<0.50	<0.50	0.50
1,2,4-Trichlorobenzene	<1.0	<0.50	<0.50	<0.50	0.50
1,1,1-Trichloroethane	<1.0	<0.50	<0.50	<0.50	0.50
1,1,2-Trichloroethane	<1.0	<0.50	<0.50	<0.50	0.50
Trichloroethylene (TCE)	<1.0	<0.50	<0.50	<0.50	0.50
Trichlorofluoromethane (R11)	<1.0	<0.50	<0.50	<0.50	0.50
1,2,3-Trichloropropane	<1.0	<0.50	<0.50	<0.50	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<1.0	<0.50	<0.50	<0.50	0.50
1,3,5-Trimethylbenzene	30	0.55	<0.50	<0.50	0.50
1,2,4-Trimethylbenzene	150	3.1	2.9	2.8	0.50
Vinyl chloride	<1.0	<0.50	<0.50	<0.50	0.50
o-Xylene	21	<0.50	<0.50	<0.50	0.50
m,p-Xylenes	97	2.0	1.8	1.7	1.0

Surrogates

					%REC Limits
4-Bromofluorobenzene	95%	98%	98%	98%	70-140
Dibromofluoromethane	105%	109%	104%	107%	70-140
Toluene-d8	99%	96%	99%	98%	70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/03/17	10/03/17	10/03/17	10/03/17	
Date Prepared:	10/09/17	10/10/17	10/10/17	10/10/17	
Date Analyzed:	10/09/17	10/10/17	10/10/17	10/10/17	
AA ID No:	7J04015-11	7J04015-12	7J04015-13	7J04015-14	
Client ID No:	GW-8	GMW-42	GMW-44	GMW-19	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

8260B+OXYGENATES (EPA 8260B)

Acetone	<10	<10	15	<10	10
tert-Amyl Methyl Ether (TAME)	<2.0	<2.0	<2.0	<2.0	2.0
Benzene	<0.50	<0.50	<0.50	<0.50	0.50
Bromobenzene	<0.50	<0.50	<0.50	<0.50	0.50
Bromochloromethane	<0.50	<0.50	<0.50	<0.50	0.50
Bromodichloromethane	<0.50	<0.50	<0.50	<0.50	0.50
Bromoform	<0.50	<0.50	<0.50	<0.50	0.50
Bromomethane	<0.50	<0.50	<0.50	<0.50	0.50
2-Butanone (MEK)	<10	<10	<10	<10	10
tert-Butyl alcohol (TBA)	<10	<10	<10	<10	10
sec-Butylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
tert-Butylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
n-Butylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
Carbon Disulfide	<0.50	<0.50	<0.50	<0.50	0.50
Carbon Tetrachloride	<0.50	<0.50	<0.50	<0.50	0.50
Chlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
Chloroethane	<0.50	<0.50	<0.50	<0.50	0.50
Chloroform	<0.50	<0.50	<0.50	<0.50	0.50
Chloromethane	<0.50	<0.50	<0.50	<0.50	0.50
2-Chlorotoluene	<0.50	<0.50	<0.50	<0.50	0.50
4-Chlorotoluene	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dibromo-3-chloropropane	<1.0	<1.0	<1.0	<1.0	1.0
Dibromochloromethane	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dibromoethane (EDB)	<0.50	<0.50	<0.50	<0.50	0.50
Dibromomethane	<0.50	<0.50	<0.50	<0.50	0.50
1,3-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/03/17	10/03/17	10/03/17	10/03/17	
Date Prepared:	10/09/17	10/10/17	10/10/17	10/10/17	
Date Analyzed:	10/09/17	10/10/17	10/10/17	10/10/17	
AA ID No:	7J04015-11	7J04015-12	7J04015-13	7J04015-14	
Client ID No:	GW-8	GMW-42	GMW-44	GMW-19	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

8260B+OXYGENATES (EPA 8260B) (continued)

1,4-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
Dichlorodifluoromethane (R12)	<0.50	<0.50	<0.50	<0.50	0.50
1,1-Dichloroethane	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dichloroethane (EDC)	<0.50	<0.50	<0.50	<0.50	0.50
1,1-Dichloroethylene	<0.50	<0.50	<0.50	<0.50	0.50
trans-1,2-Dichloroethylene	<0.50	<0.50	<0.50	<0.50	0.50
cis-1,2-Dichloroethylene	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50	0.50
2,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50	0.50
1,3-Dichloropropane	<0.50	<0.50	<0.50	<0.50	0.50
cis-1,3-Dichloropropylene	<0.50	<0.50	<0.50	<0.50	0.50
trans-1,3-Dichloropropylene	<0.50	<0.50	<0.50	<0.50	0.50
1,1-Dichloropropylene	<0.50	<0.50	<0.50	<0.50	0.50
Diisopropyl ether (DIPE)	<2.0	<2.0	<2.0	<2.0	2.0
Ethylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
Ethyl-tert-Butyl Ether (ETBE)	<2.0	<2.0	<2.0	<2.0	2.0
Hexachlorobutadiene	<1.0	<1.0	<1.0	<1.0	1.0
2-Hexanone (MBK)	<10	<10	<10	<10	10
Isopropylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
4-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.0	<1.0	<1.0	1.5	1.0
Methylene Chloride	<5.0	<5.0	<5.0	<5.0	5.0
4-Methyl-2-pentanone (MIBK)	<10	<10	<10	<10	10
Naphthalene	<2.0	<2.0	<2.0	<2.0	2.0
n-Propylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
Styrene	<0.50	<0.50	<0.50	<0.50	0.50
1,1,1,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	0.50

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/03/17	10/03/17	10/03/17	10/03/17	
Date Prepared:	10/09/17	10/10/17	10/10/17	10/10/17	
Date Analyzed:	10/09/17	10/10/17	10/10/17	10/10/17	
AA ID No:	7J04015-11	7J04015-12	7J04015-13	7J04015-14	
Client ID No:	GW-8	GMW-42	GMW-44	GMW-19	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

8260B+OXYGENATES (EPA 8260B) (continued)

1,1,2,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	<0.50	<0.50	0.50
Toluene	<0.50	<0.50	<0.50	<0.50	0.50
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
1,2,4-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
1,1,1-Trichloroethane	<0.50	<0.50	<0.50	<0.50	0.50
1,1,2-Trichloroethane	<0.50	<0.50	<0.50	<0.50	0.50
Trichloroethylene (TCE)	<0.50	<0.50	<0.50	<0.50	0.50
Trichlorofluoromethane (R11)	<0.50	<0.50	<0.50	<0.50	0.50
1,2,3-Trichloropropane	<0.50	<0.50	<0.50	<0.50	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	<0.50	<0.50	<0.50	0.50
1,3,5-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
1,2,4-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
Vinyl chloride	<0.50	<0.50	<0.50	<0.50	0.50
o-Xylene	<0.50	<0.50	<0.50	<0.50	0.50
m,p-Xylenes	<1.0	<1.0	<1.0	<1.0	1.0

Surrogates

					%REC Limits
4-Bromofluorobenzene	100%	98%	99%	97%	70-140
Dibromofluoromethane	109%	113%	114%	113%	70-140
Toluene-d8	97%	97%	96%	97%	70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/03/17	10/03/17	10/03/17	10/03/17	
Date Prepared:	10/10/17	10/10/17	10/10/17	10/10/17	
Date Analyzed:	10/10/17	10/10/17	10/10/17	10/10/17	
AA ID No:	7J04015-16	7J04015-17	7J04015-18	7J04015-19	
Client ID No:	GMW-6	DUP-2	GMW-56	MW-13	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

8260B+OXYGENATES (EPA 8260B)

Acetone	<10	<10	<10	<10	10
tert-Amyl Methyl Ether (TAME)	<2.0	<2.0	<2.0	<2.0	2.0
Benzene	<0.50	<0.50	<0.50	<0.50	0.50
Bromobenzene	<0.50	<0.50	<0.50	<0.50	0.50
Bromochloromethane	<0.50	<0.50	<0.50	<0.50	0.50
Bromodichloromethane	<0.50	<0.50	<0.50	<0.50	0.50
Bromoform	<0.50	<0.50	<0.50	<0.50	0.50
Bromomethane	<0.50	<0.50	<0.50	<0.50	0.50
2-Butanone (MEK)	<10	<10	<10	<10	10
tert-Butyl alcohol (TBA)	<10	<10	<10	<10	10
sec-Butylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
tert-Butylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
n-Butylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
Carbon Disulfide	<0.50	<0.50	<0.50	<0.50	0.50
Carbon Tetrachloride	<0.50	<0.50	<0.50	<0.50	0.50
Chlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
Chloroethane	<0.50	<0.50	<0.50	<0.50	0.50
Chloroform	<0.50	<0.50	<0.50	<0.50	0.50
Chloromethane	<0.50	<0.50	<0.50	<0.50	0.50
2-Chlorotoluene	<0.50	<0.50	<0.50	<0.50	0.50
4-Chlorotoluene	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dibromo-3-chloropropane	<1.0	<1.0	<1.0	<1.0	1.0
Dibromochloromethane	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dibromoethane (EDB)	<0.50	<0.50	<0.50	<0.50	0.50
Dibromomethane	<0.50	<0.50	<0.50	<0.50	0.50
1,3-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/03/17	10/03/17	10/03/17	10/03/17	
Date Prepared:	10/10/17	10/10/17	10/10/17	10/10/17	
Date Analyzed:	10/10/17	10/10/17	10/10/17	10/10/17	
AA ID No:	7J04015-16	7J04015-17	7J04015-18	7J04015-19	
Client ID No:	GMW-6	DUP-2	GMW-56	MW-13	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

8260B+OXYGENATES (EPA 8260B) (continued)

1,4-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
Dichlorodifluoromethane (R12)	<0.50	<0.50	<0.50	<0.50	0.50
1,1-Dichloroethane	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dichloroethane (EDC)	<0.50	<0.50	<0.50	<0.50	0.50
1,1-Dichloroethylene	<0.50	<0.50	<0.50	<0.50	0.50
trans-1,2-Dichloroethylene	<0.50	<0.50	<0.50	<0.50	0.50
cis-1,2-Dichloroethylene	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50	0.50
2,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50	0.50
1,3-Dichloropropane	<0.50	<0.50	<0.50	<0.50	0.50
cis-1,3-Dichloropropylene	<0.50	<0.50	<0.50	<0.50	0.50
trans-1,3-Dichloropropylene	<0.50	<0.50	<0.50	<0.50	0.50
1,1-Dichloropropylene	<0.50	<0.50	<0.50	<0.50	0.50
Diisopropyl ether (DIPE)	<2.0	<2.0	<2.0	<2.0	2.0
Ethylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
Ethyl-tert-Butyl Ether (ETBE)	<2.0	<2.0	<2.0	<2.0	2.0
Hexachlorobutadiene	<1.0	<1.0	<1.0	<1.0	1.0
2-Hexanone (MBK)	<10	<10	<10	<10	10
Isopropylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
4-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.0	<1.0	<1.0	<1.0	1.0
Methylene Chloride	<5.0	<5.0	<5.0	<5.0	5.0
4-Methyl-2-pentanone (MIBK)	<10	<10	<10	<10	10
Naphthalene	<2.0	<2.0	<2.0	<2.0	2.0
n-Propylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
Styrene	<0.50	<0.50	<0.50	<0.50	0.50
1,1,1,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	0.50

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/03/17	10/03/17	10/03/17	10/03/17	
Date Prepared:	10/10/17	10/10/17	10/10/17	10/10/17	
Date Analyzed:	10/10/17	10/10/17	10/10/17	10/10/17	
AA ID No:	7J04015-16	7J04015-17	7J04015-18	7J04015-19	
Client ID No:	GMW-6	DUP-2	GMW-56	MW-13	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

8260B+OXYGENATES (EPA 8260B) (continued)

1,1,2,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	<0.50	<0.50	0.50
Toluene	<0.50	<0.50	<0.50	<0.50	0.50
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
1,2,4-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
1,1,1-Trichloroethane	<0.50	<0.50	<0.50	<0.50	0.50
1,1,2-Trichloroethane	<0.50	<0.50	<0.50	<0.50	0.50
Trichloroethylene (TCE)	<0.50	<0.50	<0.50	<0.50	0.50
Trichlorofluoromethane (R11)	<0.50	<0.50	<0.50	<0.50	0.50
1,2,3-Trichloropropane	<0.50	<0.50	<0.50	<0.50	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	<0.50	<0.50	<0.50	0.50
1,3,5-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
1,2,4-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
Vinyl chloride	<0.50	<0.50	<0.50	<0.50	0.50
o-Xylene	<0.50	<0.50	<0.50	<0.50	0.50
m,p-Xylenes	<1.0	<1.0	<1.0	<1.0	1.0

Surrogates

					%REC Limits
4-Bromofluorobenzene	100%	98%	98%	96%	70-140
Dibromofluoromethane	116%	111%	115%	113%	70-140
Toluene-d8	97%	97%	96%	96%	70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/03/17	10/03/17	10/02/17	
Date Prepared:	10/10/17	10/10/17	10/10/17	
Date Analyzed:	10/10/17	10/10/17	10/10/17	
AA ID No:	7J04015-20	7J04015-21	7J04015-22	
Client ID No:	GW-16	MW-17	DUP-1	
Matrix:	Water	Water	Water	
Dilution Factor:	1	1	5	MRL

8260B+OXYGENATES (EPA 8260B)

Acetone	<10	<10	<50	10
tert-Amyl Methyl Ether (TAME)	<2.0	<2.0	<10	2.0
Benzene	2.2	<0.50	250	0.50
Bromobenzene	<0.50	<0.50	<2.5	0.50
Bromochloromethane	<0.50	<0.50	<2.5	0.50
Bromodichloromethane	<0.50	<0.50	<2.5	0.50
Bromoform	<0.50	<0.50	<2.5	0.50
Bromomethane	<0.50	<0.50	<2.5	0.50
2-Butanone (MEK)	<10	<10	<50	10
tert-Butyl alcohol (TBA)	<10	<10	<50	10
sec-Butylbenzene	<0.50	<0.50	<2.5	0.50
tert-Butylbenzene	<0.50	<0.50	<2.5	0.50
n-Butylbenzene	<0.50	<0.50	3.2	0.50
Carbon Disulfide	<0.50	<0.50	<2.5	0.50
Carbon Tetrachloride	<0.50	<0.50	<2.5	0.50
Chlorobenzene	<0.50	<0.50	<2.5	0.50
Chloroethane	<0.50	<0.50	<2.5	0.50
Chloroform	<0.50	<0.50	<2.5	0.50
Chloromethane	<0.50	<0.50	<2.5	0.50
2-Chlorotoluene	<0.50	<0.50	<2.5	0.50
4-Chlorotoluene	<0.50	<0.50	<2.5	0.50
1,2-Dibromo-3-chloropropane	<1.0	<1.0	<5.0	1.0
Dibromochloromethane	<0.50	<0.50	<2.5	0.50
1,2-Dibromoethane (EDB)	<0.50	<0.50	<2.5	0.50
Dibromomethane	<0.50	<0.50	<2.5	0.50
1,3-Dichlorobenzene	<0.50	<0.50	<2.5	0.50
1,2-Dichlorobenzene	<0.50	<0.50	<2.5	0.50

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/03/17	10/03/17	10/02/17	
Date Prepared:	10/10/17	10/10/17	10/10/17	
Date Analyzed:	10/10/17	10/10/17	10/10/17	
AA ID No:	7J04015-20	7J04015-21	7J04015-22	
Client ID No:	GW-16	MW-17	DUP-1	
Matrix:	Water	Water	Water	
Dilution Factor:	1	1	5	MRL

8260B+OXYGENATES (EPA 8260B) (continued)

1,4-Dichlorobenzene	<0.50	<0.50	<2.5	0.50
Dichlorodifluoromethane (R12)	<0.50	<0.50	<2.5	0.50
1,1-Dichloroethane	<0.50	<0.50	<2.5	0.50
1,2-Dichloroethane (EDC)	<0.50	<0.50	<2.5	0.50
1,1-Dichloroethylene	<0.50	<0.50	<2.5	0.50
trans-1,2-Dichloroethylene	<0.50	<0.50	<2.5	0.50
cis-1,2-Dichloroethylene	<0.50	<0.50	<2.5	0.50
1,2-Dichloropropane	<0.50	<0.50	<2.5	0.50
2,2-Dichloropropane	<0.50	<0.50	<2.5	0.50
1,3-Dichloropropane	<0.50	<0.50	<2.5	0.50
cis-1,3-Dichloropropylene	<0.50	<0.50	<2.5	0.50
trans-1,3-Dichloropropylene	<0.50	<0.50	<2.5	0.50
1,1-Dichloropropylene	<0.50	<0.50	<2.5	0.50
Diisopropyl ether (DIPE)	<2.0	<2.0	<10	2.0
Ethylbenzene	<0.50	<0.50	250	0.50
Ethyl-tert-Butyl Ether (ETBE)	<2.0	<2.0	<10	2.0
Hexachlorobutadiene	<1.0	<1.0	<5.0	1.0
2-Hexanone (MBK)	<10	<10	<50	10
Isopropylbenzene	0.95	<0.50	39	0.50
4-Isopropyltoluene	<1.0	<1.0	<5.0	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.0	<1.0	<5.0	1.0
Methylene Chloride	<5.0	<5.0	<25	5.0
4-Methyl-2-pentanone (MIBK)	<10	<10	<50	10
Naphthalene	<2.0	<2.0	75	2.0
n-Propylbenzene	<0.50	<0.50	43	0.50
Styrene	<0.50	<0.50	<2.5	0.50
1,1,1,2-Tetrachloroethane	<0.50	<0.50	<2.5	0.50

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/03/17	10/03/17	10/02/17	
Date Prepared:	10/10/17	10/10/17	10/10/17	
Date Analyzed:	10/10/17	10/10/17	10/10/17	
AA ID No:	7J04015-20	7J04015-21	7J04015-22	
Client ID No:	GW-16	MW-17	DUP-1	
Matrix:	Water	Water	Water	
Dilution Factor:	1	1	5	MRL

8260B+OXYGENATES (EPA 8260B) (continued)

1,1,2,2-Tetrachloroethane	<0.50	<0.50	<2.5	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	<2.5	0.50
Toluene	<0.50	<0.50	<2.5	0.50
1,2,3-Trichlorobenzene	<0.50	<0.50	<2.5	0.50
1,2,4-Trichlorobenzene	<0.50	<0.50	<2.5	0.50
1,1,1-Trichloroethane	<0.50	<0.50	<2.5	0.50
1,1,2-Trichloroethane	<0.50	<0.50	<2.5	0.50
Trichloroethylene (TCE)	<0.50	<0.50	<2.5	0.50
Trichlorofluoromethane (R11)	<0.50	<0.50	<2.5	0.50
1,2,3-Trichloropropane	<0.50	<0.50	<2.5	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	<0.50	<2.5	0.50
1,3,5-Trimethylbenzene	<0.50	<0.50	29	0.50
1,2,4-Trimethylbenzene	<0.50	<0.50	170	0.50
Vinyl chloride	<0.50	<0.50	<2.5	0.50
o-Xylene	<0.50	<0.50	20	0.50
m,p-Xylenes	<1.0	<1.0	98	1.0

Surrogates

				%REC Limits
4-Bromofluorobenzene	99%	99%	96%	70-140
Dibromofluoromethane	106%	107%	106%	70-140
Toluene-d8	99%	99%	92%	70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: Diesel Range Organics by GC/FID

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17
Units: mg/L

Date Sampled:	10/02/17	10/02/17	10/02/17	10/02/17	
Date Prepared:	10/05/17	10/05/17	10/05/17	10/05/17	
Date Analyzed:	10/05/17	10/05/17	10/05/17	10/05/17	
AA ID No:	7J04015-03	7J04015-04	7J04015-05	7J04015-06	
Client ID No:	GMW-64	GMW-63	GMW-65	GMW-67	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

Diesel Range Organics 8015M (EPA 8015M)

Diesel Range Organics as Diesel	0.22	0.17	0.10	0.52	0.10
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Surrogates

o-Terphenyl	119%	121%	116%	106%	<u>%REC Limits</u> 50-150
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 Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: Diesel Range Organics by GC/FID

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17
Units: mg/L

Date Sampled:	10/02/17	10/02/17	10/02/17	10/02/17	
Date Prepared:	10/05/17	10/05/17	10/05/17	10/05/17	
Date Analyzed:	10/05/17	10/05/17	10/05/17	10/05/17	
AA ID No:	7J04015-07	7J04015-08	7J04015-09	7J04015-10	
Client ID No:	GMW-69	GW-3	EXP-2	MW-24	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

Diesel Range Organics 8015M (EPA 8015M)

Diesel Range Organics as Diesel	0.38	0.29	0.15	0.21	0.10
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Surrogates

o-Terphenyl	121%	121%	134%	100%	<u>%REC Limits</u> 50-150
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Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: Diesel Range Organics by GC/FID

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17
Units: mg/L

Date Sampled:	10/03/17	10/03/17	10/03/17	10/03/17	
Date Prepared:	10/05/17	10/05/17	10/05/17	10/05/17	
Date Analyzed:	10/05/17	10/05/17	10/05/17	10/05/17	
AA ID No:	7J04015-11	7J04015-12	7J04015-13	7J04015-14	
Client ID No:	GW-8	GMW-42	GMW-44	GMW-19	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

Diesel Range Organics 8015M (EPA 8015M)

Diesel Range Organics as Diesel	0.15	0.18	0.13	0.21	0.10
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Surrogates

o-Terphenyl	115%	86%	100%	120%	<u>%REC Limits</u> 50-150
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Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: Diesel Range Organics by GC/FID

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17
Units: mg/L

Date Sampled:	10/03/17	10/03/17	10/03/17	10/03/17	
Date Prepared:	10/05/17	10/05/17	10/05/17	10/05/17	
Date Analyzed:	10/05/17	10/05/17	10/05/17	10/05/17	
AA ID No:	7J04015-16	7J04015-17	7J04015-18	7J04015-19	
Client ID No:	GMW-6	DUP-2	GMW-56	MW-13	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

Diesel Range Organics 8015M (EPA 8015M)

Diesel Range Organics as Diesel	0.27	0.25	0.12	0.27	0.10
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Surrogates

o-Terphenyl	109%	85%	119%	119%	<u>%REC Limits</u> 50-150
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 Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: Diesel Range Organics by GC/FID

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17
Units: mg/L

Date Sampled:	10/03/17	10/03/17	10/02/17	
Date Prepared:	10/05/17	10/05/17	10/05/17	
Date Analyzed:	10/05/17	10/05/17	10/05/17	
AA ID No:	7J04015-20	7J04015-21	7J04015-22	
Client ID No:	GW-16	MW-17	DUP-1	
Matrix:	Water	Water	Water	
Dilution Factor:	1	1	1	MRL

Diesel Range Organics 8015M (EPA 8015M)

Diesel Range Organics as Diesel	<0.10	0.11	0.34	0.10
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Surrogates

o-Terphenyl	125%	91%	90%	<u>%REC Limits</u> 50-150
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Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: Gasoline Range Organics by GC/FID

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/02/17	10/02/17	10/02/17	10/02/17	
Date Prepared:	10/09/17	10/09/17	10/09/17	10/09/17	
Date Analyzed:	10/09/17	10/09/17	10/09/17	10/09/17	
AA ID No:	7J04015-03	7J04015-04	7J04015-05	7J04015-06	
Client ID No:	GMW-64	GMW-63	GMW-65	GMW-67	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

Gasoline Range Organics 8015M (EPA 8015M)

Gasoline Range Organics (GRO)	<100	<100	<100	<100	100
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Surrogates

a,a,a-Trifluorotoluene	88%	93%	93%	89%	<u>%REC Limits</u> 80-120
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Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: Gasoline Range Organics by GC/FID

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/02/17	10/02/17	10/02/17	10/02/17	
Date Prepared:	10/09/17	10/09/17	10/09/17	10/09/17	
Date Analyzed:	10/09/17	10/09/17	10/09/17	10/09/17	
AA ID No:	7J04015-07	7J04015-08	7J04015-09	7J04015-10	
Client ID No:	GMW-69	GW-3	EXP-2	MW-24	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

Gasoline Range Organics 8015M (EPA 8015M)

Gasoline Range Organics (GRO)	2100	<100	<100	<100	100
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Surrogates

a,a,a-Trifluorotoluene	105%	91%	97%	98%	<u>%REC Limits</u> 80-120
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LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: Gasoline Range Organics by GC/FID

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/03/17	10/03/17	10/03/17	10/03/17	
Date Prepared:	10/09/17	10/09/17	10/09/17	10/09/17	
Date Analyzed:	10/09/17	10/09/17	10/09/17	10/09/17	
AA ID No:	7J04015-11	7J04015-12	7J04015-13	7J04015-14	
Client ID No:	GW-8	GMW-42	GMW-44	GMW-19	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

Gasoline Range Organics 8015M (EPA 8015M)

Gasoline Range Organics (GRO)	<100	<100	<100	<100	100
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Surrogates

a,a,a-Trifluorotoluene	93%	88%	93%	88%	<u>%REC Limits</u> 80-120
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 Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: Gasoline Range Organics by GC/FID

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/03/17	10/03/17	10/03/17	10/03/17	
Date Prepared:	10/09/17	10/10/17	10/10/17	10/10/17	
Date Analyzed:	10/09/17	10/10/17	10/10/17	10/10/17	
AA ID No:	7J04015-16	7J04015-17	7J04015-18	7J04015-19	
Client ID No:	GMW-6	DUP-2	GMW-56	MW-13	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

Gasoline Range Organics 8015M (EPA 8015M)

Gasoline Range Organics (GRO)	<100	<100	<100	<100	100
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Surrogates

a,a,a-Trifluorotoluene	89%	86%	91%	93%	<u>%REC Limits</u> 80-120
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Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: Gasoline Range Organics by GC/FID

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/03/17	10/03/17	10/02/17	
Date Prepared:	10/10/17	10/10/17	10/10/17	
Date Analyzed:	10/10/17	10/10/17	10/10/17	
AA ID No:	7J04015-20	7J04015-21	7J04015-22	
Client ID No:	GW-16	MW-17	DUP-1	
Matrix:	Water	Water	Water	
Dilution Factor:	1	1	1	MRL

Gasoline Range Organics 8015M (EPA 8015M)

Gasoline Range Organics (GRO)	<100	<100	2300	100
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Surrogates

a,a,a-Trifluorotoluene	88%	90%	94%	<u>%REC Limits</u> 80-120
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Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17

Analyte	Reporting Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J0607 - EPA 5030B

Blank (B7J0607-BLK1)

Prepared & Analyzed: 10/06/17

Acetone	<10	10	ug/L
tert-Amyl Methyl Ether (TAME)	<2.0	2.0	ug/L
Benzene	<0.50	0.50	ug/L
Bromobenzene	<0.50	0.50	ug/L
Bromochloromethane	<0.50	0.50	ug/L
Bromodichloromethane	<0.50	0.50	ug/L
Bromoform	<0.50	0.50	ug/L
Bromomethane	<0.50	0.50	ug/L
2-Butanone (MEK)	<10	10	ug/L
tert-Butyl alcohol (TBA)	<10	10	ug/L
sec-Butylbenzene	<0.50	0.50	ug/L
tert-Butylbenzene	<0.50	0.50	ug/L
n-Butylbenzene	<0.50	0.50	ug/L
Carbon Disulfide	<0.50	0.50	ug/L
Carbon Tetrachloride	<0.50	0.50	ug/L
Chlorobenzene	<0.50	0.50	ug/L
Chloroethane	<0.50	0.50	ug/L
Chloroform	<0.50	0.50	ug/L
Chloromethane	<0.50	0.50	ug/L
2-Chlorotoluene	<0.50	0.50	ug/L
4-Chlorotoluene	<0.50	0.50	ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0	ug/L
Dibromochloromethane	<0.50	0.50	ug/L
1,2-Dibromoethane (EDB)	<0.50	0.50	ug/L
Dibromomethane	<0.50	0.50	ug/L
1,3-Dichlorobenzene	<0.50	0.50	ug/L
1,2-Dichlorobenzene	<0.50	0.50	ug/L
1,4-Dichlorobenzene	<0.50	0.50	ug/L
Dichlorodifluoromethane (R12)	<0.50	0.50	ug/L
1,1-Dichloroethane	<0.50	0.50	ug/L
1,2-Dichloroethane (EDC)	<0.50	0.50	ug/L

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J0607 - EPA 5030B

Blank (B7J0607-BLK1) Continued

Prepared & Analyzed: 10/06/17

1,1-Dichloroethylene	<0.50	0.50	ug/L							
trans-1,2-Dichloroethylene	<0.50	0.50	ug/L							
cis-1,2-Dichloroethylene	<0.50	0.50	ug/L							
1,2-Dichloropropane	<0.50	0.50	ug/L							
2,2-Dichloropropane	<0.50	0.50	ug/L							
1,3-Dichloropropane	<0.50	0.50	ug/L							
cis-1,3-Dichloropropylene	<0.50	0.50	ug/L							
trans-1,3-Dichloropropylene	<0.50	0.50	ug/L							
1,1-Dichloropropylene	<0.50	0.50	ug/L							
Diisopropyl ether (DIPE)	<2.0	2.0	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Ethyl-tert-Butyl Ether (ETBE)	<2.0	2.0	ug/L							
Gasoline Range Organics (GRO)	<100	100	ug/L							
Hexachlorobutadiene	<1.0	1.0	ug/L							
2-Hexanone (MBK)	<10	10	ug/L							
Isopropylbenzene	<0.50	0.50	ug/L							
4-Isopropyltoluene	<1.0	1.0	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L							
Methylene Chloride	<5.0	5.0	ug/L							
4-Methyl-2-pentanone (MIBK)	<10	10	ug/L							
Naphthalene	<2.0	2.0	ug/L							
n-Propylbenzene	<0.50	0.50	ug/L							
Styrene	<0.50	0.50	ug/L							
1,1,1,2-Tetrachloroethane	<0.50	0.50	ug/L							
1,1,2,2-Tetrachloroethane	<0.50	0.50	ug/L							
Tetrachloroethylene (PCE)	<0.50	0.50	ug/L							
Toluene	<0.50	0.50	ug/L							
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L							
1,2,4-Trichlorobenzene	<0.50	0.50	ug/L							
1,1,1-Trichloroethane	<0.50	0.50	ug/L							
1,1,2-Trichloroethane	<0.50	0.50	ug/L							

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J0607 - EPA 5030B

Blank (B7J0607-BLK1) Continued

Prepared & Analyzed: 10/06/17

Trichloroethylene (TCE)	<0.50	0.50	ug/L
Trichlorofluoromethane (R11)	<0.50	0.50	ug/L
1,2,3-Trichloropropane	<0.50	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	0.50	ug/L
1,3,5-Trimethylbenzene	<0.50	0.50	ug/L
1,2,4-Trimethylbenzene	<0.50	0.50	ug/L
Vinyl chloride	<0.50	0.50	ug/L
o-Xylene	<0.50	0.50	ug/L
m,p-Xylenes	<1.0	1.0	ug/L

Surrogate: 4-Bromofluorobenzene	47.6		ug/L	50	95.2	70-140
Surrogate: Dibromofluoromethane	55.2		ug/L	50	110	70-140
Surrogate: Toluene-d8	47.6		ug/L	50	95.1	70-140

LCS (B7J0607-BS1)

Prepared: 10/06/17 Analyzed: 10/07/17

Acetone	19.8	10	ug/L	20	99.0	70-130
tert-Amyl Methyl Ether (TAME)	18.3	2.0	ug/L	20	91.6	70-130
Benzene	20.2	0.50	ug/L	20	101	75-125
Bromobenzene	21.8	0.50	ug/L	20	109	70-130
Bromochloromethane	19.6	0.50	ug/L	20	98.2	70-130
Bromodichloromethane	18.7	0.50	ug/L	20	93.4	75-125
Bromoform	19.9	0.50	ug/L	20	99.6	75-125
Bromomethane	16.5	0.50	ug/L	20	82.7	75-125
2-Butanone (MEK)	20.8	10	ug/L	20	104	70-130
tert-Butyl alcohol (TBA)	89.8	10	ug/L	100	89.8	70-130
sec-Butylbenzene	21.7	0.50	ug/L	20	109	70-130
tert-Butylbenzene	22.2	0.50	ug/L	20	111	70-130
n-Butylbenzene	21.5	0.50	ug/L	20	107	70-130
Carbon Disulfide	17.2	0.50	ug/L	20	86.0	70-130
Carbon Tetrachloride	18.7	0.50	ug/L	20	93.7	75-125
Chlorobenzene	20.6	0.50	ug/L	20	103	75-125
Chloroethane	17.6	0.50	ug/L	20	87.8	75-125

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J0607 - EPA 5030B

LCS (B7J0607-BS1) Continued

Prepared: 10/06/17 Analyzed: 10/07/17

Chloroform	18.6	0.50	ug/L	20	93.2	75-125
Chloromethane	17.3	0.50	ug/L	20	86.4	65-125
2-Chlorotoluene	21.0	0.50	ug/L	20	105	70-130
4-Chlorotoluene	20.3	0.50	ug/L	20	101	70-130
1,2-Dibromo-3-chloropropane	16.7	1.0	ug/L	20	83.6	70-130
Dibromochloromethane	19.4	0.50	ug/L	20	97.1	75-125
1,2-Dibromoethane (EDB)	19.4	0.50	ug/L	20	97.2	70-130
Dibromomethane	18.1	0.50	ug/L	20	90.4	70-130
1,3-Dichlorobenzene	20.7	0.50	ug/L	20	103	70-130
1,2-Dichlorobenzene	21.2	0.50	ug/L	20	106	70-130
1,4-Dichlorobenzene	20.2	0.50	ug/L	20	101	75-125
Dichlorodifluoromethane (R12)	17.5	0.50	ug/L	20	87.6	70-130
1,1-Dichloroethane	19.4	0.50	ug/L	20	96.9	70-125
1,2-Dichloroethane (EDC)	17.7	0.50	ug/L	20	88.5	75-125
1,1-Dichloroethylene	17.6	0.50	ug/L	20	88.2	70-130
trans-1,2-Dichloroethylene	19.7	0.50	ug/L	20	98.4	75-125
cis-1,2-Dichloroethylene	19.8	0.50	ug/L	20	99.2	75-125
1,2-Dichloropropane	19.2	0.50	ug/L	20	96.2	75-130
2,2-Dichloropropane	17.3	0.50	ug/L	20	86.3	70-130
1,3-Dichloropropane	19.4	0.50	ug/L	20	97.2	70-130
cis-1,3-Dichloropropylene	18.9	0.50	ug/L	20	94.5	75-125
trans-1,3-Dichloropropylene	18.6	0.50	ug/L	20	93.2	70-130
1,1-Dichloropropylene	20.4	0.50	ug/L	20	102	70-130
Diisopropyl ether (DIPE)	19.9	2.0	ug/L	20	99.4	70-130
Ethylbenzene	22.4	0.50	ug/L	20	112	75-125
Ethyl-tert-Butyl Ether (ETBE)	19.9	2.0	ug/L	20	99.6	70-130
Gasoline Range Organics (GRO)	474	100	ug/L	500	94.8	70-130
Hexachlorobutadiene	20.4	1.0	ug/L	20	102	70-130
2-Hexanone (MBK)	16.6	10	ug/L	20	83.2	70-130
Isopropylbenzene	22.1	0.50	ug/L	20	110	70-130
4-Isopropyltoluene	21.4	1.0	ug/L	20	107	70-130

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Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J0607 - EPA 5030B

LCS (B7J0607-BS1) Continued

Prepared: 10/06/17 Analyzed: 10/07/17

Methyl-tert-Butyl Ether (MTBE)	35.7	1.0	ug/L	40		89.2	75-125			
Methylene Chloride	16.1	5.0	ug/L	20		80.7	75-130			
4-Methyl-2-pentanone (MIBK)	17.6	10	ug/L	20		88.2	70-130			
Naphthalene	23.7	2.0	ug/L	20		119	70-130			
n-Propylbenzene	22.2	0.50	ug/L	20		111	70-130			
Styrene	21.3	0.50	ug/L	20		106	70-130			
1,1,1,2-Tetrachloroethane	21.0	0.50	ug/L	20		105	70-130			
1,1,2,2-Tetrachloroethane	18.2	0.50	ug/L	20		91.0	70-135			
Tetrachloroethylene (PCE)	22.0	0.50	ug/L	20		110	75-125			
Toluene	20.0	0.50	ug/L	20		99.9	75-125			
1,2,3-Trichlorobenzene	22.1	0.50	ug/L	20		110	70-130			
1,2,4-Trichlorobenzene	21.4	0.50	ug/L	20		107	70-130			
1,1,1-Trichloroethane	19.1	0.50	ug/L	20		95.6	75-125			
1,1,2-Trichloroethane	20.3	0.50	ug/L	20		102	75-125			
Trichloroethylene (TCE)	19.5	0.50	ug/L	20		97.3	75-125			
Trichlorofluoromethane (R11)	18.1	0.50	ug/L	20		90.4	70-130			
1,2,3-Trichloropropane	17.5	0.50	ug/L	20		87.7	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	16.4	0.50	ug/L	20		81.8	70-130			
1,3,5-Trimethylbenzene	21.8	0.50	ug/L	20		109	70-130			
1,2,4-Trimethylbenzene	21.9	0.50	ug/L	20		109	70-130			
Vinyl chloride	16.8	0.50	ug/L	20		84.0	75-125			
o-Xylene	20.4	0.50	ug/L	20		102	75-125			
m,p-Xylenes	41.7	1.0	ug/L	40		104	70-130			

Surrogate: 4-Bromofluorobenzene 47.8
Surrogate: Dibromofluoromethane 45.4
Surrogate: Toluene-d8 49.9

LCS Dup (B7J0607-BSD1)

Prepared: 10/06/17 Analyzed: 10/07/17

Acetone	23.2	10	ug/L	20		116	70-130	15.7	30	
tert-Amyl Methyl Ether (TAME)	20.2	2.0	ug/L	20		101	70-130	10.0	30	
Benzene	20.8	0.50	ug/L	20		104	75-125	3.07	30	

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Date Received: 10/04/17
Date Reported: 10/18/17

Table with 11 columns: Analyte, Reporting Result, Reporting Limit, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Notes

VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J0607 - EPA 5030B

LCS Dup (B7J0607-BSD1) Continued

Prepared: 10/06/17 Analyzed: 10/07/17

Main data table listing various chemical compounds (e.g., Bromobenzene, Chlorobenzene) with their respective reporting results, limits, units, spike levels, source results, %REC, and RPD values.

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Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17

Analyte	Reporting Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J0607 - EPA 5030B

LCS Dup (B7J0607-BSD1) Continued

Prepared: 10/06/17 Analyzed: 10/07/17

1,2-Dichloropropane	21.1	0.50	ug/L	20		106	75-130	9.36	30	
2,2-Dichloropropane	18.1	0.50	ug/L	20		90.6	70-130	4.92	30	
1,3-Dichloropropane	20.6	0.50	ug/L	20		103	70-130	5.65	30	
cis-1,3-Dichloropropylene	20.4	0.50	ug/L	20		102	75-125	7.58	30	
trans-1,3-Dichloropropylene	19.8	0.50	ug/L	20		99.0	70-130	5.93	30	
1,1-Dichloropropylene	21.1	0.50	ug/L	20		106	70-130	3.37	30	
Diisopropyl ether (DIPE)	21.2	2.0	ug/L	20		106	70-130	6.38	30	
Ethylbenzene	22.0	0.50	ug/L	20		110	75-125	1.80	30	
Ethyl-tert-Butyl Ether (ETBE)	21.2	2.0	ug/L	20		106	70-130	6.27	30	
Gasoline Range Organics (GRO)	482	100	ug/L	500		96.4	70-130	1.67	30	
Hexachlorobutadiene	22.2	1.0	ug/L	20		111	70-130	8.63	30	
2-Hexanone (MBK)	16.9	10	ug/L	20		84.4	70-130	1.55	30	
Isopropylbenzene	23.6	0.50	ug/L	20		118	70-130	6.65	30	
4-Isopropyltoluene	21.5	1.0	ug/L	20		107	70-130	0.513	30	
Methyl-tert-Butyl Ether (MTBE)	39.1	1.0	ug/L	40		97.7	75-125	9.09	30	
Methylene Chloride	17.0	5.0	ug/L	20		85.2	75-130	5.42	30	
4-Methyl-2-pentanone (MIBK)	20.0	10	ug/L	20		99.9	70-130	12.4	30	
Naphthalene	24.0	2.0	ug/L	20		120	70-130	1.17	30	
n-Propylbenzene	22.5	0.50	ug/L	20		112	70-130	1.07	30	
Styrene	21.6	0.50	ug/L	20		108	70-130	1.54	30	
1,1,1,2-Tetrachloroethane	22.0	0.50	ug/L	20		110	70-130	4.69	30	
1,1,2,2-Tetrachloroethane	20.2	0.50	ug/L	20		101	70-135	10.5	30	
Tetrachloroethylene (PCE)	22.1	0.50	ug/L	20		111	75-125	0.726	30	
Toluene	20.7	0.50	ug/L	20		103	75-125	3.44	30	
1,2,3-Trichlorobenzene	24.7	0.50	ug/L	20		123	70-130	11.0	30	
1,2,4-Trichlorobenzene	22.8	0.50	ug/L	20		114	70-130	6.52	30	
1,1,1-Trichloroethane	20.3	0.50	ug/L	20		102	75-125	6.18	30	
1,1,2-Trichloroethane	21.4	0.50	ug/L	20		107	75-125	5.31	30	
Trichloroethylene (TCE)	21.2	0.50	ug/L	20		106	75-125	8.32	30	
Trichlorofluoromethane (R11)	18.3	0.50	ug/L	20		91.4	70-130	0.990	30	
1,2,3-Trichloropropane	20.2	0.50	ug/L	20		101	70-130	14.2	30	

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LABORATORY ANALYSIS RESULTS

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Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17

Analyte	Reporting Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J0607 - EPA 5030B

LCS Dup (B7J0607-BSD1) Continued

Prepared: 10/06/17 Analyzed: 10/07/17

1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	18.1	0.50	ug/L	20	90.5	70-130	10.2	30	
1,3,5-Trimethylbenzene	22.4	0.50	ug/L	20	112	70-130	3.03	30	
1,2,4-Trimethylbenzene	22.2	0.50	ug/L	20	111	70-130	1.32	30	
Vinyl chloride	16.8	0.50	ug/L	20	84.1	75-125	0.119	30	
o-Xylene	20.1	0.50	ug/L	20	100	75-125	1.58	30	
m,p-Xylenes	41.4	1.0	ug/L	40	104	70-130	0.650	30	
Surrogate: 4-Bromofluorobenzene	48.6		ug/L	50	97.3	70-140			
Surrogate: Dibromofluoromethane	47.5		ug/L	50	94.9	70-140			
Surrogate: Toluene-d8	50.3		ug/L	50	101	70-140			

VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J0919 - EPA 5030B

Blank (B7J0919-BLK1)

Prepared & Analyzed: 10/09/17

Acetone	<10	10	ug/L						
tert-Amyl Methyl Ether (TAME)	<2.0	2.0	ug/L						
Benzene	<0.50	0.50	ug/L						
Bromobenzene	<0.50	0.50	ug/L						
Bromochloromethane	<0.50	0.50	ug/L						
Bromodichloromethane	<0.50	0.50	ug/L						
Bromoform	<0.50	0.50	ug/L						
Bromomethane	<0.50	0.50	ug/L						
2-Butanone (MEK)	<10	10	ug/L						
tert-Butyl alcohol (TBA)	<10	10	ug/L						
sec-Butylbenzene	<0.50	0.50	ug/L						
tert-Butylbenzene	<0.50	0.50	ug/L						
n-Butylbenzene	<0.50	0.50	ug/L						
Carbon Disulfide	<0.50	0.50	ug/L						
Carbon Tetrachloride	<0.50	0.50	ug/L						
Chlorobenzene	<0.50	0.50	ug/L						
Chloroethane	<0.50	0.50	ug/L						
Chloroform	<0.50	0.50	ug/L						

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J0919 - EPA 5030B

Blank (B7J0919-BLK1) Continued

Prepared & Analyzed: 10/09/17

Chloromethane	<0.50	0.50	ug/L							
2-Chlorotoluene	<0.50	0.50	ug/L							
4-Chlorotoluene	<0.50	0.50	ug/L							
1,2-Dibromo-3-chloropropane	<1.0	1.0	ug/L							
Dibromochloromethane	<0.50	0.50	ug/L							
1,2-Dibromoethane (EDB)	<0.50	0.50	ug/L							
Dibromomethane	<0.50	0.50	ug/L							
1,3-Dichlorobenzene	<0.50	0.50	ug/L							
1,2-Dichlorobenzene	<0.50	0.50	ug/L							
1,4-Dichlorobenzene	<0.50	0.50	ug/L							
Dichlorodifluoromethane (R12)	<0.50	0.50	ug/L							
1,1-Dichloroethane	<0.50	0.50	ug/L							
1,2-Dichloroethane (EDC)	<0.50	0.50	ug/L							
1,1-Dichloroethylene	<0.50	0.50	ug/L							
trans-1,2-Dichloroethylene	<0.50	0.50	ug/L							
cis-1,2-Dichloroethylene	<0.50	0.50	ug/L							
1,2-Dichloropropane	<0.50	0.50	ug/L							
2,2-Dichloropropane	<0.50	0.50	ug/L							
1,3-Dichloropropane	<0.50	0.50	ug/L							
cis-1,3-Dichloropropylene	<0.50	0.50	ug/L							
trans-1,3-Dichloropropylene	<0.50	0.50	ug/L							
1,1-Dichloropropylene	<0.50	0.50	ug/L							
Diisopropyl ether (DIPE)	<2.0	2.0	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Ethyl-tert-Butyl Ether (ETBE)	<2.0	2.0	ug/L							
Hexachlorobutadiene	<1.0	1.0	ug/L							
2-Hexanone (MBK)	<10	10	ug/L							
Isopropylbenzene	<0.50	0.50	ug/L							
4-Isopropyltoluene	<1.0	1.0	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L							
Methylene Chloride	<5.0	5.0	ug/L							

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J0919 - EPA 5030B

Blank (B7J0919-BLK1) Continued

Prepared & Analyzed: 10/09/17

4-Methyl-2-pentanone (MIBK)	<10	10	ug/L
Naphthalene	<2.0	2.0	ug/L
n-Propylbenzene	<0.50	0.50	ug/L
Styrene	<0.50	0.50	ug/L
1,1,1,2-Tetrachloroethane	<0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	<0.50	0.50	ug/L
Tetrachloroethylene (PCE)	<0.50	0.50	ug/L
Toluene	<0.50	0.50	ug/L
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L
1,2,4-Trichlorobenzene	<0.50	0.50	ug/L
1,1,1-Trichloroethane	<0.50	0.50	ug/L
1,1,2-Trichloroethane	<0.50	0.50	ug/L
Trichloroethylene (TCE)	<0.50	0.50	ug/L
Trichlorofluoromethane (R11)	<0.50	0.50	ug/L
1,2,3-Trichloropropane	<0.50	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	0.50	ug/L
1,3,5-Trimethylbenzene	<0.50	0.50	ug/L
1,2,4-Trimethylbenzene	<0.50	0.50	ug/L
Vinyl chloride	<0.50	0.50	ug/L
o-Xylene	<0.50	0.50	ug/L
m,p-Xylenes	<1.0	1.0	ug/L

Surrogate: 4-Bromofluorobenzene	47.9		ug/L	50	95.7	70-140
Surrogate: Dibromofluoromethane	53.6		ug/L	50	107	70-140
Surrogate: Toluene-d8	48.5		ug/L	50	97.0	70-140

LCS (B7J0919-BS1)

Prepared & Analyzed: 10/09/17

Acetone	20.6	10	ug/L	20	103	70-130
tert-Amyl Methyl Ether (TAME)	19.7	2.0	ug/L	20	98.3	70-130
Benzene	20.7	0.50	ug/L	20	103	75-125
Bromobenzene	22.9	0.50	ug/L	20	115	70-130
Bromochloromethane	20.6	0.50	ug/L	20	103	70-130

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**LABORATORY ANALYSIS RESULTS**

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AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J0919 - EPA 5030B

LCS (B7J0919-BS1) Continued

Prepared & Analyzed: 10/09/17

Bromodichloromethane	19.6	0.50	ug/L	20		97.8	75-125			
Bromoform	23.6	0.50	ug/L	20		118	75-125			
Bromomethane	19.6	0.50	ug/L	20		97.8	75-125			
2-Butanone (MEK)	19.1	10	ug/L	20		95.6	70-130			
tert-Butyl alcohol (TBA)	93.7	10	ug/L	100		93.7	70-130			
sec-Butylbenzene	22.7	0.50	ug/L	20		114	70-130			
tert-Butylbenzene	23.0	0.50	ug/L	20		115	70-130			
n-Butylbenzene	23.0	0.50	ug/L	20		115	70-130			
Carbon Disulfide	19.6	0.50	ug/L	20		98.0	70-130			
Carbon Tetrachloride	20.5	0.50	ug/L	20		102	75-125			
Chlorobenzene	22.4	0.50	ug/L	20		112	75-125			
Chloroethane	18.5	0.50	ug/L	20		92.4	75-125			
Chloroform	19.6	0.50	ug/L	20		98.2	75-125			
Chloromethane	18.4	0.50	ug/L	20		91.8	65-125			
2-Chlorotoluene	22.3	0.50	ug/L	20		111	70-130			
4-Chlorotoluene	22.2	0.50	ug/L	20		111	70-130			
1,2-Dibromo-3-chloropropane	20.8	1.0	ug/L	20		104	70-130			
Dibromochloromethane	22.4	0.50	ug/L	20		112	75-125			
1,2-Dibromoethane (EDB)	21.8	0.50	ug/L	20		109	70-130			
Dibromomethane	19.8	0.50	ug/L	20		99.2	70-130			
1,3-Dichlorobenzene	21.7	0.50	ug/L	20		108	70-130			
1,2-Dichlorobenzene	23.0	0.50	ug/L	20		115	70-130			
1,4-Dichlorobenzene	22.1	0.50	ug/L	20		110	75-125			
Dichlorodifluoromethane (R12)	18.3	0.50	ug/L	20		91.6	70-130			
1,1-Dichloroethane	19.7	0.50	ug/L	20		98.7	70-125			
1,2-Dichloroethane (EDC)	19.3	0.50	ug/L	20		96.7	75-125			
1,1-Dichloroethylene	19.6	0.50	ug/L	20		97.8	70-130			
trans-1,2-Dichloroethylene	17.2	0.50	ug/L	20		86.2	75-125			
cis-1,2-Dichloroethylene	21.2	0.50	ug/L	20		106	75-125			
1,2-Dichloropropane	20.4	0.50	ug/L	20		102	75-130			
2,2-Dichloropropane	20.9	0.50	ug/L	20		104	70-130			

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J0919 - EPA 5030B

LCS (B7J0919-BS1) Continued

Prepared & Analyzed: 10/09/17

1,3-Dichloropropane	20.4	0.50	ug/L	20	102	70-130
cis-1,3-Dichloropropylene	21.5	0.50	ug/L	20	107	75-125
trans-1,3-Dichloropropylene	22.1	0.50	ug/L	20	110	70-130
1,1-Dichloropropylene	21.8	0.50	ug/L	20	109	70-130
Diisopropyl ether (DIPE)	20.1	2.0	ug/L	20	100	70-130
Ethylbenzene	23.0	0.50	ug/L	20	115	75-125
Ethyl-tert-Butyl Ether (ETBE)	20.2	2.0	ug/L	20	101	70-130
Hexachlorobutadiene	23.2	1.0	ug/L	20	116	70-130
2-Hexanone (MBK)	22.2	10	ug/L	20	111	70-130
Isopropylbenzene	23.6	0.50	ug/L	20	118	70-130
4-Isopropyltoluene	22.1	1.0	ug/L	20	110	70-130
Methyl-tert-Butyl Ether (MTBE)	38.2	1.0	ug/L	40	95.4	75-125
Methylene Chloride	18.2	5.0	ug/L	20	90.8	75-130
4-Methyl-2-pentanone (MIBK)	20.4	10	ug/L	20	102	70-130
Naphthalene	23.7	2.0	ug/L	20	118	70-130
n-Propylbenzene	23.3	0.50	ug/L	20	117	70-130
Styrene	22.8	0.50	ug/L	20	114	70-130
1,1,1,2-Tetrachloroethane	22.5	0.50	ug/L	20	112	70-130
1,1,2,2-Tetrachloroethane	20.4	0.50	ug/L	20	102	70-135
Tetrachloroethylene (PCE)	23.5	0.50	ug/L	20	118	75-125
Toluene	21.1	0.50	ug/L	20	106	75-125
1,2,3-Trichlorobenzene	24.0	0.50	ug/L	20	120	70-130
1,2,4-Trichlorobenzene	23.3	0.50	ug/L	20	117	70-130
1,1,1-Trichloroethane	20.9	0.50	ug/L	20	104	75-125
1,1,2-Trichloroethane	21.9	0.50	ug/L	20	109	75-125
Trichloroethylene (TCE)	21.0	0.50	ug/L	20	105	75-125
Trichlorofluoromethane (R11)	18.7	0.50	ug/L	20	93.4	70-130
1,2,3-Trichloropropane	21.4	0.50	ug/L	20	107	70-130
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	16.3	0.50	ug/L	20	81.6	70-130
1,3,5-Trimethylbenzene	23.0	0.50	ug/L	20	115	70-130
1,2,4-Trimethylbenzene	22.9	0.50	ug/L	20	115	70-130

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J0919 - EPA 5030B

LCS (B7J0919-BS1) Continued

Prepared & Analyzed: 10/09/17

Vinyl chloride	17.7	0.50	ug/L	20		88.7	75-125			
o-Xylene	21.4	0.50	ug/L	20		107	75-125			
m,p-Xylenes	43.4	1.0	ug/L	40		109	70-130			
Surrogate: 4-Bromofluorobenzene	48.6		ug/L	50		97.1	70-140			
Surrogate: Dibromofluoromethane	45.2		ug/L	50		90.4	70-140			
Surrogate: Toluene-d8	49.4		ug/L	50		98.9	70-140			

Matrix Spike (B7J0919-MS1)

Source: 7J04015-03 Prepared: 10/09/17 Analyzed: 10/10/17

Acetone	22.7	10	ug/L	20	<10	113	70-130			
tert-Amyl Methyl Ether (TAME)	19.9	2.0	ug/L	20	<2.0	99.4	70-130			
Benzene	20.2	0.50	ug/L	20	<0.50	101	70-130			
Bromobenzene	22.0	0.50	ug/L	20	<0.50	110	70-130			
Bromochloromethane	21.4	0.50	ug/L	20	<0.50	107	70-130			
Bromodichloromethane	20.3	0.50	ug/L	20	<0.50	102	70-130			
Bromoform	23.3	0.50	ug/L	20	<0.50	116	70-130			
Bromomethane	16.4	0.50	ug/L	20	<0.50	82.0	70-130			
2-Butanone (MEK)	21.5	10	ug/L	20	<10	108	70-130			
tert-Butyl alcohol (TBA)	92.3	10	ug/L	100	<10	92.3	70-130			
sec-Butylbenzene	21.6	0.50	ug/L	20	<0.50	108	70-130			
tert-Butylbenzene	22.2	0.50	ug/L	20	<0.50	111	70-130			
n-Butylbenzene	21.0	0.50	ug/L	20	<0.50	105	70-130			
Carbon Disulfide	16.9	0.50	ug/L	20	<0.50	84.5	70-130			
Carbon Tetrachloride	19.7	0.50	ug/L	20	<0.50	98.4	70-130			
Chlorobenzene	21.0	0.50	ug/L	20	<0.50	105	70-130			
Chloroethane	17.6	0.50	ug/L	20	<0.50	88.0	70-130			
Chloroform	19.2	0.50	ug/L	20	<0.50	96.1	70-130			
Chloromethane	16.9	0.50	ug/L	20	<0.50	84.7	70-130			
2-Chlorotoluene	21.1	0.50	ug/L	20	<0.50	106	70-130			
4-Chlorotoluene	20.6	0.50	ug/L	20	<0.50	103	70-130			
1,2-Dibromo-3-chloropropane	21.5	1.0	ug/L	20	<1.0	108	70-130			
Dibromochloromethane	22.4	0.50	ug/L	20	<0.50	112	70-130			
1,2-Dibromoethane (EDB)	22.0	0.50	ug/L	20	<0.50	110	70-130			

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J0919 - EPA 5030B

Matrix Spike (B7J0919-MS1) Continued Source: 7J04015-03 Prepared: 10/09/17 Analyzed: 10/10/17

Dibromomethane	21.5	0.50	ug/L	20	<0.50	108	70-130			
1,3-Dichlorobenzene	20.7	0.50	ug/L	20	<0.50	103	70-130			
1,2-Dichlorobenzene	22.3	0.50	ug/L	20	<0.50	112	70-130			
1,4-Dichlorobenzene	20.4	0.50	ug/L	20	<0.50	102	70-130			
Dichlorodifluoromethane (R12)	16.3	0.50	ug/L	20	<0.50	81.6	70-130			
1,1-Dichloroethane	19.4	0.50	ug/L	20	<0.50	97.2	70-130			
1,2-Dichloroethane (EDC)	20.2	0.50	ug/L	20	<0.50	101	70-130			
1,1-Dichloroethylene	18.6	0.50	ug/L	20	<0.50	92.8	70-130			
trans-1,2-Dichloroethylene	20.0	0.50	ug/L	20	<0.50	100	70-130			
cis-1,2-Dichloroethylene	20.3	0.50	ug/L	20	<0.50	102	70-130			
1,2-Dichloropropane	21.3	0.50	ug/L	20	<0.50	106	70-130			
2,2-Dichloropropane	17.1	0.50	ug/L	20	<0.50	85.7	70-130			
1,3-Dichloropropane	21.6	0.50	ug/L	20	<0.50	108	70-130			
cis-1,3-Dichloropropylene	21.4	0.50	ug/L	20	<0.50	107	70-130			
trans-1,3-Dichloropropylene	20.7	0.50	ug/L	20	<0.50	103	70-130			
1,1-Dichloropropylene	20.3	0.50	ug/L	20	<0.50	101	70-130			
Diisopropyl ether (DIPE)	22.0	2.0	ug/L	20	<2.0	110	70-130			
Ethylbenzene	21.7	0.50	ug/L	20	<0.50	108	70-130			
Ethyl-tert-Butyl Ether (ETBE)	21.6	2.0	ug/L	20	<2.0	108	70-130			
Hexachlorobutadiene	19.7	1.0	ug/L	20	<1.0	98.6	70-130			
2-Hexanone (MBK)	20.6	10	ug/L	20	<10	103	70-130			
Isopropylbenzene	22.0	0.50	ug/L	20	<0.50	110	70-130			
4-Isopropyltoluene	20.6	1.0	ug/L	20	<1.0	103	70-130			
Methyl-tert-Butyl Ether (MTBE)	40.8	1.0	ug/L	40	<1.0	102	70-130			
Methylene Chloride	16.2	5.0	ug/L	20	<5.0	81.1	70-130			
4-Methyl-2-pentanone (MIBK)	22.8	10	ug/L	20	<10	114	70-130			
Naphthalene	23.4	2.0	ug/L	20	0.470	114	70-130			
n-Propylbenzene	22.2	0.50	ug/L	20	<0.50	111	70-130			
Styrene	21.8	0.50	ug/L	20	<0.50	109	70-130			
1,1,1,2-Tetrachloroethane	21.6	0.50	ug/L	20	<0.50	108	70-130			
1,1,1,2,2-Tetrachloroethane	21.8	0.50	ug/L	20	<0.50	109	70-130			

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J0919 - EPA 5030B

Matrix Spike (B7J0919-MS1) Continued Source: 7J04015-03 Prepared: 10/09/17 Analyzed: 10/10/17

Tetrachloroethylene (PCE)	21.1	0.50	ug/L	20	<0.50	106	70-130			
Toluene	19.7	0.50	ug/L	20	<0.50	98.6	70-130			
1,2,3-Trichlorobenzene	23.4	0.50	ug/L	20	<0.50	117	70-130			
1,2,4-Trichlorobenzene	22.0	0.50	ug/L	20	<0.50	110	70-130			
1,1,1-Trichloroethane	19.6	0.50	ug/L	20	<0.50	98.2	70-130			
1,1,2-Trichloroethane	22.4	0.50	ug/L	20	<0.50	112	70-130			
Trichloroethylene (TCE)	20.2	0.50	ug/L	20	<0.50	101	70-130			
Trichlorofluoromethane (R11)	18.1	0.50	ug/L	20	<0.50	90.4	70-130			
1,2,3-Trichloropropane	22.0	0.50	ug/L	20	<0.50	110	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	17.4	0.50	ug/L	20	<0.50	87.0	70-130			
1,3,5-Trimethylbenzene	21.9	0.50	ug/L	20	<0.50	110	70-130			
1,2,4-Trimethylbenzene	21.6	0.50	ug/L	20	<0.50	108	70-130			
Vinyl chloride	16.4	0.50	ug/L	20	<0.50	81.8	70-130			
o-Xylene	19.9	0.50	ug/L	20	<0.50	99.4	70-130			
m,p-Xylenes	41.3	1.0	ug/L	40	<1.0	103	70-130			
Surrogate: 4-Bromofluorobenzene	50.1		ug/L	50		100	70-140			
Surrogate: Dibromofluoromethane	48.5		ug/L	50		96.9	70-140			
Surrogate: Toluene-d8	49.6		ug/L	50		99.2	70-140			

Matrix Spike Dup (B7J0919-MSD1) Source: 7J04015-03 Prepared: 10/09/17 Analyzed: 10/10/17

Acetone	22.6	10	ug/L	20	<10	113	70-130	0.531	30	
tert-Amyl Methyl Ether (TAME)	18.9	2.0	ug/L	20	<2.0	94.4	70-130	5.21	30	
Benzene	21.7	0.50	ug/L	20	<0.50	109	70-130	7.59	30	
Bromobenzene	23.6	0.50	ug/L	20	<0.50	118	70-130	7.03	30	
Bromochloromethane	21.6	0.50	ug/L	20	<0.50	108	70-130	0.928	30	
Bromodichloromethane	20.6	0.50	ug/L	20	<0.50	103	70-130	1.22	30	
Bromoform	22.0	0.50	ug/L	20	<0.50	110	70-130	5.57	30	
Bromomethane	19.2	0.50	ug/L	20	<0.50	95.8	70-130	15.5	30	
2-Butanone (MEK)	23.5	10	ug/L	20	<10	117	70-130	8.85	30	
tert-Butyl alcohol (TBA)	82.4	10	ug/L	100	<10	82.4	70-130	11.4	30	
sec-Butylbenzene	23.4	0.50	ug/L	20	<0.50	117	70-130	8.14	30	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J0919 - EPA 5030B

Matrix Spike Dup (B7J0919-MSD1) Source: 7J04015-03 Prepared: 10/09/17 Analyzed: 10/10/17

Continued

tert-Butylbenzene	23.5	0.50	ug/L	20	<0.50	117	70-130	5.65	30	
n-Butylbenzene	23.3	0.50	ug/L	20	<0.50	116	70-130	10.4	30	
Carbon Disulfide	20.3	0.50	ug/L	20	<0.50	101	70-130	18.1	30	
Carbon Tetrachloride	21.4	0.50	ug/L	20	<0.50	107	70-130	8.56	30	
Chlorobenzene	22.1	0.50	ug/L	20	<0.50	110	70-130	5.06	30	
Chloroethane	18.9	0.50	ug/L	20	<0.50	94.6	70-130	7.17	30	
Chloroform	20.3	0.50	ug/L	20	<0.50	101	70-130	5.37	30	
Chloromethane	18.7	0.50	ug/L	20	<0.50	93.4	70-130	9.82	30	
2-Chlorotoluene	22.7	0.50	ug/L	20	<0.50	114	70-130	7.20	30	
4-Chlorotoluene	22.6	0.50	ug/L	20	<0.50	113	70-130	8.98	30	
1,2-Dibromo-3-chloropropane	20.1	1.0	ug/L	20	<1.0	101	70-130	6.72	30	
Dibromochloromethane	20.8	0.50	ug/L	20	<0.50	104	70-130	7.54	30	
1,2-Dibromoethane (EDB)	21.1	0.50	ug/L	20	<0.50	105	70-130	4.41	30	
Dibromomethane	21.2	0.50	ug/L	20	<0.50	106	70-130	1.26	30	
1,3-Dichlorobenzene	22.3	0.50	ug/L	20	<0.50	111	70-130	7.55	30	
1,2-Dichlorobenzene	23.2	0.50	ug/L	20	<0.50	116	70-130	3.95	30	
1,4-Dichlorobenzene	21.9	0.50	ug/L	20	<0.50	110	70-130	6.94	30	
Dichlorodifluoromethane (R12)	17.5	0.50	ug/L	20	<0.50	87.4	70-130	6.98	30	
1,1-Dichloroethane	21.2	0.50	ug/L	20	<0.50	106	70-130	8.70	30	
1,2-Dichloroethane (EDC)	19.6	0.50	ug/L	20	<0.50	97.8	70-130	3.02	30	
1,1-Dichloroethylene	20.5	0.50	ug/L	20	<0.50	103	70-130	9.98	30	
trans-1,2-Dichloroethylene	22.9	0.50	ug/L	20	<0.50	114	70-130	13.2	30	
cis-1,2-Dichloroethylene	22.1	0.50	ug/L	20	<0.50	110	70-130	8.11	30	
1,2-Dichloropropane	20.7	0.50	ug/L	20	<0.50	104	70-130	2.52	30	
2,2-Dichloropropane	19.0	0.50	ug/L	20	<0.50	95.2	70-130	10.5	30	
1,3-Dichloropropane	20.5	0.50	ug/L	20	<0.50	103	70-130	5.36	30	
cis-1,3-Dichloropropylene	21.8	0.50	ug/L	20	<0.50	109	70-130	1.76	30	
trans-1,3-Dichloropropylene	19.8	0.50	ug/L	20	<0.50	98.8	70-130	4.40	30	
1,1-Dichloropropylene	23.2	0.50	ug/L	20	<0.50	116	70-130	13.7	30	
Diisopropyl ether (DIPE)	21.2	2.0	ug/L	20	<2.0	106	70-130	3.98	30	
Ethylbenzene	22.8	0.50	ug/L	20	<0.50	114	70-130	4.90	30	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J0919 - EPA 5030B

Matrix Spike Dup (B7J0919-MSD1) Source: 7J04015-03 Prepared: 10/09/17 Analyzed: 10/10/17

Continued

Ethyl-tert-Butyl Ether (ETBE)	20.8	2.0	ug/L	20	<2.0	104	70-130	4.06	30	
Hexachlorobutadiene	23.0	1.0	ug/L	20	<1.0	115	70-130	15.2	30	
2-Hexanone (MBK)	18.8	10	ug/L	20	<10	94.0	70-130	9.04	30	
Isopropylbenzene	23.9	0.50	ug/L	20	<0.50	119	70-130	8.10	30	
4-Isopropyltoluene	22.6	1.0	ug/L	20	<1.0	113	70-130	9.41	30	
Methyl-tert-Butyl Ether (MTBE)	38.8	1.0	ug/L	40	<1.0	97.0	70-130	4.97	30	
Methylene Chloride	17.7	5.0	ug/L	20	<5.0	88.5	70-130	8.73	30	
4-Methyl-2-pentanone (MIBK)	20.8	10	ug/L	20	<10	104	70-130	8.90	30	
Naphthalene	24.3	2.0	ug/L	20	0.470	119	70-130	3.78	30	
n-Propylbenzene	24.0	0.50	ug/L	20	<0.50	120	70-130	7.96	30	
Styrene	22.8	0.50	ug/L	20	<0.50	114	70-130	4.35	30	
1,1,1,2-Tetrachloroethane	21.1	0.50	ug/L	20	<0.50	105	70-130	2.72	30	
1,1,2,2-Tetrachloroethane	20.6	0.50	ug/L	20	<0.50	103	70-130	5.75	30	
Tetrachloroethylene (PCE)	22.9	0.50	ug/L	20	<0.50	114	70-130	7.95	30	
Toluene	21.0	0.50	ug/L	20	<0.50	105	70-130	6.24	30	
1,2,3-Trichlorobenzene	25.4	0.50	ug/L	20	<0.50	127	70-130	8.06	30	
1,2,4-Trichlorobenzene	24.6	0.50	ug/L	20	<0.50	123	70-130	11.0	30	
1,1,1-Trichloroethane	21.3	0.50	ug/L	20	<0.50	107	70-130	8.21	30	
1,1,2-Trichloroethane	21.0	0.50	ug/L	20	<0.50	105	70-130	6.46	30	
Trichloroethylene (TCE)	22.1	0.50	ug/L	20	<0.50	110	70-130	9.04	30	
Trichlorofluoromethane (R11)	18.9	0.50	ug/L	20	<0.50	94.5	70-130	4.43	30	
1,2,3-Trichloropropane	20.4	0.50	ug/L	20	<0.50	102	70-130	7.64	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	18.8	0.50	ug/L	20	<0.50	93.9	70-130	7.57	30	
1,3,5-Trimethylbenzene	23.3	0.50	ug/L	20	<0.50	117	70-130	6.37	30	
1,2,4-Trimethylbenzene	23.1	0.50	ug/L	20	<0.50	116	70-130	6.85	30	
Vinyl chloride	17.8	0.50	ug/L	20	<0.50	89.2	70-130	8.60	30	
o-Xylene	20.7	0.50	ug/L	20	<0.50	104	70-130	4.19	30	
m,p-Xylenes	43.3	1.0	ug/L	40	<1.0	108	70-130	4.71	30	
Surrogate: 4-Bromofluorobenzene	48.5		ug/L	50		97.1	70-140			

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J0919 - EPA 5030B

Matrix Spike Dup (B7J0919-MSD1) Source: 7J04015-03 Prepared: 10/09/17 Analyzed: 10/10/17

Continued

Surrogate: Dibromofluoromethane	46.8		ug/L	50		93.5	70-140			
Surrogate: Toluene-d8	47.5		ug/L	50		95.0	70-140			

Batch B7J1059 - EPA 5030B

Blank (B7J1059-BLK1)

Prepared & Analyzed: 10/10/17

Acetone	<10	10	ug/L							
tert-Amyl Methyl Ether (TAME)	<2.0	2.0	ug/L							
Benzene	<0.50	0.50	ug/L							
Bromobenzene	<0.50	0.50	ug/L							
Bromochloromethane	<0.50	0.50	ug/L							
Bromodichloromethane	<0.50	0.50	ug/L							
Bromoform	<0.50	0.50	ug/L							
Bromomethane	<0.50	0.50	ug/L							
2-Butanone (MEK)	<10	10	ug/L							
tert-Butyl alcohol (TBA)	<10	10	ug/L							
sec-Butylbenzene	<0.50	0.50	ug/L							
tert-Butylbenzene	<0.50	0.50	ug/L							
n-Butylbenzene	<0.50	0.50	ug/L							
Carbon Disulfide	<0.50	0.50	ug/L							
Carbon Tetrachloride	<0.50	0.50	ug/L							
Chlorobenzene	<0.50	0.50	ug/L							
Chloroethane	<0.50	0.50	ug/L							
Chloroform	<0.50	0.50	ug/L							
Chloromethane	<0.50	0.50	ug/L							
2-Chlorotoluene	<0.50	0.50	ug/L							
4-Chlorotoluene	<0.50	0.50	ug/L							
1,2-Dibromo-3-chloropropane	<1.0	1.0	ug/L							
Dibromochloromethane	<0.50	0.50	ug/L							
1,2-Dibromoethane (EDB)	<0.50	0.50	ug/L							
Dibromomethane	<0.50	0.50	ug/L							
1,3-Dichlorobenzene	<0.50	0.50	ug/L							

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1059 - EPA 5030B

Blank (B7J1059-BLK1) Continued

Prepared & Analyzed: 10/10/17

1,2-Dichlorobenzene	<0.50	0.50	ug/L
1,4-Dichlorobenzene	<0.50	0.50	ug/L
Dichlorodifluoromethane (R12)	<0.50	0.50	ug/L
1,1-Dichloroethane	<0.50	0.50	ug/L
1,2-Dichloroethane (EDC)	<0.50	0.50	ug/L
1,1-Dichloroethylene	<0.50	0.50	ug/L
trans-1,2-Dichloroethylene	<0.50	0.50	ug/L
cis-1,2-Dichloroethylene	<0.50	0.50	ug/L
1,2-Dichloropropane	<0.50	0.50	ug/L
2,2-Dichloropropane	<0.50	0.50	ug/L
1,3-Dichloropropane	<0.50	0.50	ug/L
cis-1,3-Dichloropropylene	<0.50	0.50	ug/L
trans-1,3-Dichloropropylene	<0.50	0.50	ug/L
1,1-Dichloropropylene	<0.50	0.50	ug/L
Diisopropyl ether (DIPE)	<2.0	2.0	ug/L
Ethylbenzene	<0.50	0.50	ug/L
Ethyl-tert-Butyl Ether (ETBE)	<2.0	2.0	ug/L
Hexachlorobutadiene	<1.0	1.0	ug/L
2-Hexanone (MBK)	<10	10	ug/L
Isopropylbenzene	<0.50	0.50	ug/L
4-Isopropyltoluene	<1.0	1.0	ug/L
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L
Methylene Chloride	<5.0	5.0	ug/L
4-Methyl-2-pentanone (MIBK)	<10	10	ug/L
Naphthalene	<2.0	2.0	ug/L
n-Propylbenzene	<0.50	0.50	ug/L
Styrene	<0.50	0.50	ug/L
1,1,1,2-Tetrachloroethane	<0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	<0.50	0.50	ug/L
Tetrachloroethylene (PCE)	<0.50	0.50	ug/L
Toluene	<0.50	0.50	ug/L

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1059 - EPA 5030B

Blank (B7J1059-BLK1) Continued

Prepared & Analyzed: 10/10/17

1,2,3-Trichlorobenzene	<0.50	0.50	ug/L
1,2,4-Trichlorobenzene	<0.50	0.50	ug/L
1,1,1-Trichloroethane	<0.50	0.50	ug/L
1,1,2-Trichloroethane	<0.50	0.50	ug/L
Trichloroethylene (TCE)	<0.50	0.50	ug/L
Trichlorofluoromethane (R11)	<0.50	0.50	ug/L
1,2,3-Trichloropropane	<0.50	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	0.50	ug/L
1,3,5-Trimethylbenzene	<0.50	0.50	ug/L
1,2,4-Trimethylbenzene	<0.50	0.50	ug/L
Vinyl chloride	<0.50	0.50	ug/L
o-Xylene	<0.50	0.50	ug/L
m,p-Xylenes	<1.0	1.0	ug/L

Surrogate: 4-Bromofluorobenzene	49.1		ug/L	50	98.2	70-140
Surrogate: Dibromofluoromethane	55.2		ug/L	50	110	70-140
Surrogate: Toluene-d8	49.0		ug/L	50	97.9	70-140

LCS (B7J1059-BS1)

Prepared & Analyzed: 10/10/17

Acetone	20.9	10	ug/L	20	104	70-130
tert-Amyl Methyl Ether (TAME)	17.3	2.0	ug/L	20	86.5	70-130
Benzene	21.0	0.50	ug/L	20	105	75-125
Bromobenzene	22.7	0.50	ug/L	20	114	70-130
Bromochloromethane	19.9	0.50	ug/L	20	99.6	70-130
Bromodichloromethane	19.3	0.50	ug/L	20	96.6	75-125
Bromoform	21.1	0.50	ug/L	20	106	75-125
Bromomethane	19.9	0.50	ug/L	20	99.6	75-125
2-Butanone (MEK)	20.2	10	ug/L	20	101	70-130
tert-Butyl alcohol (TBA)	86.7	10	ug/L	100	86.7	70-130
sec-Butylbenzene	23.7	0.50	ug/L	20	118	70-130
tert-Butylbenzene	24.0	0.50	ug/L	20	120	70-130
n-Butylbenzene	23.8	0.50	ug/L	20	119	70-130

Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1059 - EPA 5030B

LCS (B7J1059-BS1) Continued

Prepared & Analyzed: 10/10/17

Carbon Disulfide	20.3	0.50	ug/L	20		101	70-130			
Carbon Tetrachloride	21.3	0.50	ug/L	20		106	75-125			
Chlorobenzene	22.7	0.50	ug/L	20		114	75-125			
Chloroethane	19.6	0.50	ug/L	20		97.9	75-125			
Chloroform	19.8	0.50	ug/L	20		98.8	75-125			
Chloromethane	19.0	0.50	ug/L	20		95.1	65-125			
2-Chlorotoluene	23.0	0.50	ug/L	20		115	70-130			
4-Chlorotoluene	22.8	0.50	ug/L	20		114	70-130			
1,2-Dibromo-3-chloropropane	18.3	1.0	ug/L	20		91.6	70-130			
Dibromochloromethane	20.8	0.50	ug/L	20		104	75-125			
1,2-Dibromoethane (EDB)	20.4	0.50	ug/L	20		102	70-130			
Dibromomethane	19.2	0.50	ug/L	20		96.0	70-130			
1,3-Dichlorobenzene	22.3	0.50	ug/L	20		111	70-130			
1,2-Dichlorobenzene	22.9	0.50	ug/L	20		114	70-130			
1,4-Dichlorobenzene	22.1	0.50	ug/L	20		111	75-125			
Dichlorodifluoromethane (R12)	18.5	0.50	ug/L	20		92.7	70-130			
1,1-Dichloroethane	20.3	0.50	ug/L	20		101	70-125			
1,2-Dichloroethane (EDC)	18.5	0.50	ug/L	20		92.6	75-125			
1,1-Dichloroethylene	21.1	0.50	ug/L	20		105	70-130			
trans-1,2-Dichloroethylene	17.8	0.50	ug/L	20		89.1	75-125			
cis-1,2-Dichloroethylene	21.3	0.50	ug/L	20		107	75-125			
1,2-Dichloropropane	20.2	0.50	ug/L	20		101	75-130			
2,2-Dichloropropane	20.8	0.50	ug/L	20		104	70-130			
1,3-Dichloropropane	20.2	0.50	ug/L	20		101	70-130			
cis-1,3-Dichloropropylene	21.1	0.50	ug/L	20		105	75-125			
trans-1,3-Dichloropropylene	20.9	0.50	ug/L	20		105	70-130			
1,1-Dichloropropylene	22.5	0.50	ug/L	20		113	70-130			
Diisopropyl ether (DIPE)	19.8	2.0	ug/L	20		99.2	70-130			
Ethylbenzene	23.2	0.50	ug/L	20		116	75-125			
Ethyl-tert-Butyl Ether (ETBE)	19.4	2.0	ug/L	20		97.0	70-130			
Hexachlorobutadiene	24.3	1.0	ug/L	20		122	70-130			

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17

Table with 11 columns: Analyte, Result, Reporting Limit, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Notes

VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1059 - EPA 5030B

LCS (B7J1059-BS1) Continued

Prepared & Analyzed: 10/10/17

Main data table listing analytes such as 2-Hexanone (MBK), Isopropylbenzene, 4-Isopropyltoluene, etc., with their respective results and limits.

Surrogate data table listing 4-Bromofluorobenzene, Dibromofluoromethane, and Toluene-d8 with results and limits.

Matrix Spike (B7J1059-MS1) Source: 7J04015-12 Prepared & Analyzed: 10/10/17

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Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1059 - EPA 5030B

Matrix Spike (B7J1059-MS1) Continued Source: 7J04015-12 Prepared & Analyzed: 10/10/17

Acetone	22.4	10	ug/L	20	<10	112	70-130			
tert-Amyl Methyl Ether (TAME)	17.8	2.0	ug/L	20	<2.0	88.8	70-130			
Benzene	21.2	0.50	ug/L	20	<0.50	106	70-130			
Bromobenzene	21.6	0.50	ug/L	20	<0.50	108	70-130			
Bromochloromethane	20.4	0.50	ug/L	20	<0.50	102	70-130			
Bromodichloromethane	20.5	0.50	ug/L	20	<0.50	102	70-130			
Bromoform	21.7	0.50	ug/L	20	<0.50	108	70-130			
Bromomethane	16.2	0.50	ug/L	20	<0.50	80.8	70-130			
2-Butanone (MEK)	23.2	10	ug/L	20	<10	116	70-130			
tert-Butyl alcohol (TBA)	83.2	10	ug/L	100	<10	83.2	70-130			
sec-Butylbenzene	21.8	0.50	ug/L	20	<0.50	109	70-130			
tert-Butylbenzene	22.2	0.50	ug/L	20	<0.50	111	70-130			
n-Butylbenzene	21.6	0.50	ug/L	20	<0.50	108	70-130			
Carbon Disulfide	19.2	0.50	ug/L	20	<0.50	95.8	70-130			
Carbon Tetrachloride	21.0	0.50	ug/L	20	<0.50	105	70-130			
Chlorobenzene	21.8	0.50	ug/L	20	<0.50	109	70-130			
Chloroethane	19.0	0.50	ug/L	20	<0.50	94.8	70-130			
Chloroform	20.0	0.50	ug/L	20	<0.50	100	70-130			
Chloromethane	17.3	0.50	ug/L	20	<0.50	86.7	70-130			
2-Chlorotoluene	21.3	0.50	ug/L	20	<0.50	106	70-130			
4-Chlorotoluene	21.0	0.50	ug/L	20	<0.50	105	70-130			
1,2-Dibromo-3-chloropropane	19.3	1.0	ug/L	20	<1.0	96.5	70-130			
Dibromochloromethane	21.6	0.50	ug/L	20	<0.50	108	70-130			
1,2-Dibromoethane (EDB)	21.0	0.50	ug/L	20	<0.50	105	70-130			
Dibromomethane	20.4	0.50	ug/L	20	<0.50	102	70-130			
1,3-Dichlorobenzene	21.0	0.50	ug/L	20	<0.50	105	70-130			
1,2-Dichlorobenzene	21.7	0.50	ug/L	20	<0.50	108	70-130			
1,4-Dichlorobenzene	20.6	0.50	ug/L	20	<0.50	103	70-130			
Dichlorodifluoromethane (R12)	16.8	0.50	ug/L	20	<0.50	84.2	70-130			
1,1-Dichloroethane	20.4	0.50	ug/L	20	<0.50	102	70-130			
1,2-Dichloroethane (EDC)	19.6	0.50	ug/L	20	<0.50	98.0	70-130			

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1059 - EPA 5030B

Matrix Spike (B7J1059-MS1) Continued Source: 7J04015-12 Prepared & Analyzed: 10/10/17

1,1-Dichloroethylene	20.0	0.50	ug/L	20	<0.50	100	70-130			
trans-1,2-Dichloroethylene	21.6	0.50	ug/L	20	<0.50	108	70-130			
cis-1,2-Dichloroethylene	21.4	0.50	ug/L	20	<0.50	107	70-130			
1,2-Dichloropropane	20.8	0.50	ug/L	20	<0.50	104	70-130			
2,2-Dichloropropane	17.1	0.50	ug/L	20	<0.50	85.4	70-130			
1,3-Dichloropropane	20.4	0.50	ug/L	20	<0.50	102	70-130			
cis-1,3-Dichloropropylene	21.0	0.50	ug/L	20	<0.50	105	70-130			
trans-1,3-Dichloropropylene	20.0	0.50	ug/L	20	<0.50	100	70-130			
1,1-Dichloropropylene	21.5	0.50	ug/L	20	<0.50	107	70-130			
Diisopropyl ether (DIPE)	21.0	2.0	ug/L	20	<2.0	105	70-130			
Ethylbenzene	22.4	0.50	ug/L	20	<0.50	112	70-130			
Ethyl-tert-Butyl Ether (ETBE)	20.0	2.0	ug/L	20	<2.0	100	70-130			
Hexachlorobutadiene	20.0	1.0	ug/L	20	<1.0	100	70-130			
2-Hexanone (MBK)	18.7	10	ug/L	20	<10	93.6	70-130			
Isopropylbenzene	22.1	0.50	ug/L	20	<0.50	111	70-130			
4-Isopropyltoluene	21.0	1.0	ug/L	20	<1.0	105	70-130			
Methyl-tert-Butyl Ether (MTBE)	35.8	1.0	ug/L	40	<1.0	89.6	70-130			
Methylene Chloride	17.2	5.0	ug/L	20	<5.0	86.0	70-130			
4-Methyl-2-pentanone (MIBK)	19.6	10	ug/L	20	<10	97.8	70-130			
Naphthalene	22.1	2.0	ug/L	20	<2.0	111	70-130			
n-Propylbenzene	22.4	0.50	ug/L	20	<0.50	112	70-130			
Styrene	22.9	0.50	ug/L	20	<0.50	114	70-130			
1,1,1,2-Tetrachloroethane	22.1	0.50	ug/L	20	<0.50	110	70-130			
1,1,2,2-Tetrachloroethane	19.9	0.50	ug/L	20	<0.50	99.4	70-130			
Tetrachloroethylene (PCE)	22.4	0.50	ug/L	20	<0.50	112	70-130			
Toluene	21.1	0.50	ug/L	20	<0.50	105	70-130			
1,2,3-Trichlorobenzene	22.6	0.50	ug/L	20	<0.50	113	70-130			
1,2,4-Trichlorobenzene	22.2	0.50	ug/L	20	<0.50	111	70-130			
1,1,1-Trichloroethane	20.8	0.50	ug/L	20	<0.50	104	70-130			
1,1,2-Trichloroethane	21.2	0.50	ug/L	20	<0.50	106	70-130			
Trichloroethylene (TCE)	21.3	0.50	ug/L	20	<0.50	106	70-130			

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1059 - EPA 5030B

Matrix Spike (B7J1059-MS1) Continued Source: 7J04015-12 Prepared & Analyzed: 10/10/17

Trichlorofluoromethane (R11)	18.5	0.50	ug/L	20	<0.50	92.7	70-130			
1,2,3-Trichloropropane	19.3	0.50	ug/L	20	<0.50	96.4	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	18.2	0.50	ug/L	20	<0.50	91.2	70-130			
1,3,5-Trimethylbenzene	22.0	0.50	ug/L	20	<0.50	110	70-130			
1,2,4-Trimethylbenzene	21.8	0.50	ug/L	20	<0.50	109	70-130			
Vinyl chloride	17.3	0.50	ug/L	20	<0.50	86.3	70-130			
o-Xylene	20.6	0.50	ug/L	20	<0.50	103	70-130			
m,p-Xylenes	42.3	1.0	ug/L	40	<1.0	106	70-130			

Surrogate: 4-Bromofluorobenzene 48.1 ug/L 50 96.2 70-140

Surrogate: Dibromofluoromethane 47.0 ug/L 50 94.0 70-140

Surrogate: Toluene-d8 49.9 ug/L 50 99.9 70-140

Matrix Spike Dup (B7J1059-MSD1) Source: 7J04015-12 Prepared: 10/10/17 Analyzed: 10/11/17

Acetone	22.3	10	ug/L	20	<10	111	70-130	0.493	30	
tert-Amyl Methyl Ether (TAME)	18.4	2.0	ug/L	20	<2.0	91.8	70-130	3.32	30	
Benzene	20.5	0.50	ug/L	20	<0.50	102	70-130	3.45	30	
Bromobenzene	21.6	0.50	ug/L	20	<0.50	108	70-130	0.324	30	
Bromochloromethane	21.6	0.50	ug/L	20	<0.50	108	70-130	5.33	30	
Bromodichloromethane	20.9	0.50	ug/L	20	<0.50	104	70-130	1.93	30	
Bromoform	23.4	0.50	ug/L	20	<0.50	117	70-130	7.72	30	
Bromomethane	18.2	0.50	ug/L	20	<0.50	90.8	70-130	11.7	30	
2-Butanone (MEK)	20.4	10	ug/L	20	<10	102	70-130	13.0	30	
tert-Butyl alcohol (TBA)	91.5	10	ug/L	100	<10	91.5	70-130	9.55	30	
sec-Butylbenzene	21.6	0.50	ug/L	20	<0.50	108	70-130	1.01	30	
tert-Butylbenzene	22.2	0.50	ug/L	20	<0.50	111	70-130	0.0451	30	
n-Butylbenzene	21.1	0.50	ug/L	20	<0.50	105	70-130	2.72	30	
Carbon Disulfide	18.3	0.50	ug/L	20	<0.50	91.4	70-130	4.65	30	
Carbon Tetrachloride	20.3	0.50	ug/L	20	<0.50	102	70-130	3.53	30	
Chlorobenzene	21.6	0.50	ug/L	20	<0.50	108	70-130	1.02	30	
Chloroethane	17.7	0.50	ug/L	20	<0.50	88.6	70-130	6.76	30	
Chloroform	20.0	0.50	ug/L	20	<0.50	99.8	70-130	0.400	30	

Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
VOCs & OXYGENATES by GC/MS - Quality Control										
<i>Batch B7J1059 - EPA 5030B</i>										
Matrix Spike Dup (B7J1059-MSD1) Source: 7J04015-12 Prepared: 10/10/17 Analyzed: 10/11/17										
Continued										
Chloromethane	17.0	0.50	ug/L	20	<0.50	84.8	70-130	2.27	30	
2-Chlorotoluene	21.3	0.50	ug/L	20	<0.50	106	70-130	0.0470	30	
4-Chlorotoluene	20.6	0.50	ug/L	20	<0.50	103	70-130	2.21	30	
1,2-Dibromo-3-chloropropane	20.0	1.0	ug/L	20	<1.0	100	70-130	3.51	30	
Dibromochloromethane	21.9	0.50	ug/L	20	<0.50	110	70-130	1.38	30	
1,2-Dibromoethane (EDB)	21.6	0.50	ug/L	20	<0.50	108	70-130	2.77	30	
Dibromomethane	21.4	0.50	ug/L	20	<0.50	107	70-130	4.93	30	
1,3-Dichlorobenzene	20.8	0.50	ug/L	20	<0.50	104	70-130	0.765	30	
1,2-Dichlorobenzene	22.5	0.50	ug/L	20	<0.50	113	70-130	3.89	30	
1,4-Dichlorobenzene	20.5	0.50	ug/L	20	<0.50	103	70-130	0.195	30	
Dichlorodifluoromethane (R12)	16.7	0.50	ug/L	20	<0.50	83.4	70-130	0.895	30	
1,1-Dichloroethane	20.3	0.50	ug/L	20	<0.50	102	70-130	0.344	30	
1,2-Dichloroethane (EDC)	20.2	0.50	ug/L	20	<0.50	101	70-130	3.02	30	
1,1-Dichloroethylene	18.9	0.50	ug/L	20	<0.50	94.6	70-130	5.75	30	
trans-1,2-Dichloroethylene	21.1	0.50	ug/L	20	<0.50	105	70-130	2.30	30	
cis-1,2-Dichloroethylene	20.7	0.50	ug/L	20	<0.50	104	70-130	2.90	30	
1,2-Dichloropropane	20.8	0.50	ug/L	20	<0.50	104	70-130	0.0481	30	
2,2-Dichloropropane	16.4	0.50	ug/L	20	<0.50	82.0	70-130	4.12	30	
1,3-Dichloropropane	21.5	0.50	ug/L	20	<0.50	108	70-130	5.15	30	
cis-1,3-Dichloropropylene	21.2	0.50	ug/L	20	<0.50	106	70-130	0.807	30	
trans-1,3-Dichloropropylene	19.8	0.50	ug/L	20	<0.50	99.2	70-130	0.953	30	
1,1-Dichloropropylene	20.9	0.50	ug/L	20	<0.50	104	70-130	2.98	30	
Diisopropyl ether (DIPE)	21.4	2.0	ug/L	20	<2.0	107	70-130	1.93	30	
Ethylbenzene	21.8	0.50	ug/L	20	<0.50	109	70-130	2.67	30	
Ethyl-tert-Butyl Ether (ETBE)	20.7	2.0	ug/L	20	<2.0	104	70-130	3.24	30	
Hexachlorobutadiene	21.1	1.0	ug/L	20	<1.0	105	70-130	4.96	30	
2-Hexanone (MBK)	19.2	10	ug/L	20	<10	95.8	70-130	2.27	30	
Isopropylbenzene	22.2	0.50	ug/L	20	<0.50	111	70-130	0.451	30	
4-Isopropyltoluene	20.7	1.0	ug/L	20	<1.0	104	70-130	1.34	30	
Methyl-tert-Butyl Ether (MTBE)	38.9	1.0	ug/L	40	<1.0	97.2	70-130	8.19	30	
Methylene Chloride	17.0	5.0	ug/L	20	<5.0	85.0	70-130	1.29	30	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17

Table with 11 columns: Analyte, Reporting Result, Reporting Limit, Units, Spike Level, Source Result, %REC %REC, %REC Limits, RPD, RPD Limit, Notes

VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1059 - EPA 5030B

Matrix Spike Dup (B7J1059-MSD1) Source: 7J04015-12 Prepared: 10/10/17 Analyzed: 10/11/17

Continued

Main data table listing various chemical analytes (e.g., 4-Methyl-2-pentanone, Naphthalene) with their respective results, limits, units, spike levels, source results, recovery percentages, and RPD values.

Diesel Range Organics by GC/FID - Quality Control

Batch B7J0517 - EPA 3510C

Blank (B7J0517-BLK1) Prepared & Analyzed: 10/05/17

Table with 1 row: Diesel Range Organics as Diesel, <0.10, 0.10, mg/L

Handwritten signature

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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Diesel Range Organics by GC/FID - Quality Control

Batch B7J0517 - EPA 3510C

Blank (B7J0517-BLK1) Continued

Prepared & Analyzed: 10/05/17

Surrogate: o-Terphenyl 0.0509 mg/L 0.040 127 50-150

LCS (B7J0517-BS1)

Prepared & Analyzed: 10/05/17

Diesel Range Organics as Diesel **0.867** 0.10 mg/L 0.80 108 75-125

Surrogate: o-Terphenyl 0.0538 mg/L 0.040 134 50-150

LCS Dup (B7J0517-BSD1)

Prepared & Analyzed: 10/05/17

Diesel Range Organics as Diesel **0.710** 0.10 mg/L 0.80 88.8 75-125 19.9 30

Surrogate: o-Terphenyl 0.0554 mg/L 0.040 138 50-150

Gasoline Range Organics by GC/FID - Quality Control

Batch B7J0924 - EPA 5030B

Blank (B7J0924-BLK1)

Prepared & Analyzed: 10/09/17

Gasoline Range Organics (GRO) <100 100 ug/L

Surrogate: a,a,a-Trifluorotoluene 46.5 ug/L 50 93.0 80-120

LCS (B7J0924-BS1)

Prepared & Analyzed: 10/09/17

Gasoline Range Organics (GRO) **437** 100 ug/L 500 87.5 75-125

Surrogate: a,a,a-Trifluorotoluene 45.6 ug/L 50 91.1 80-120

LCS Dup (B7J0924-BSD1)

Prepared & Analyzed: 10/09/17

Gasoline Range Organics (GRO) **429** 100 ug/L 500 85.8 75-125 1.90 30

Surrogate: a,a,a-Trifluorotoluene 44.9 ug/L 50 89.9 80-120

Matrix Spike (B7J0924-MS1)

Source: 7J04015-03 Prepared & Analyzed: 10/09/17

Gasoline Range Organics (GRO) **407** 100 ug/L 500 <100 81.4 70-130

Surrogate: a,a,a-Trifluorotoluene 44.9 ug/L 50 89.8 80-120

Matrix Spike Dup (B7J0924-MSD1)

Source: 7J04015-03 Prepared & Analyzed: 10/09/17

Gasoline Range Organics (GRO) **407** 100 ug/L 500 <100 81.5 70-130 0.127 30

Surrogate: a,a,a-Trifluorotoluene 43.7 ug/L 50 87.4 80-120

Batch B7J1061 - EPA 5030B

Blank (B7J1061-BLK1)

Prepared & Analyzed: 10/10/17

Gasoline Range Organics (GRO) <100 100 ug/L

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
Gasoline Range Organics by GC/FID - Quality Control										
<i>Batch B7J1061 - EPA 5030B</i>										
Blank (B7J1061-BLK1) Continued				Prepared & Analyzed: 10/10/17						
<i>Surrogate: a,a,a-Trifluorotoluene</i>	45.7		ug/L	50		91.5	80-120			
LCS (B7J1061-BS1)				Prepared & Analyzed: 10/10/17						
Gasoline Range Organics (GRO)	415	100	ug/L	500		83.1	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	48.7		ug/L	50		97.4	80-120			
LCS Dup (B7J1061-BSD1)				Prepared & Analyzed: 10/10/17						
Gasoline Range Organics (GRO)	436	100	ug/L	500		87.2	75-125	4.77	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	46.0		ug/L	50		92.0	80-120			
Matrix Spike (B7J1061-MS1)				Source: 7J04015-17 Prepared & Analyzed: 10/10/17						
Gasoline Range Organics (GRO)	407	100	ug/L	500	<100	81.4	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	47.2		ug/L	50		94.3	80-120			
Matrix Spike Dup (B7J1061-MSD1)				Source: 7J04015-17 Prepared & Analyzed: 10/10/17						
Gasoline Range Organics (GRO)	407	100	ug/L	500	<100	81.4	70-130	0.0787	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	46.0		ug/L	50		92.1	80-120			

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332319
Date Received: 10/04/17
Date Reported: 10/18/17

Special Notes

Viorel Vasile
Operations Manager



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

Tel: 818-998-5547 FAX: 818-998-7258

A.A. COC No.: 13779

70049778

Page 1 of 2

Client: <u>APEX-SCI</u>	Project Name / No.: <u>DESA Norwalk</u>	Sampler's Name: <u>DAVID LUBIN</u>
Project Manager: <u>DAUSWENSSON</u>	Site Address: <u>15306 Norwalk</u>	Sampler's Signature: <u>[Signature]</u>
Phone: <u>1-562-597-1055</u>	City: <u>Norwalk</u>	P.O. No.: <u>—</u>
Fax: <u>1-562-597-1070</u>	State & Zip: <u>Norwalk Ca</u>	Quote No.: <u>—</u>

TAT Turnaround Codes **

- ① = Same Day Rush
- ② = 24 Hour Rush
- ③ = 48 Hour Rush
- ④ = 72 Hour Rush
- ⑤ = 5 Day Rush
- X = 10 Working Days (Standard TAT)

ANALYSIS REQUESTED (Test Name)

805M/D
8260B
805TR1/6

Special Instructions

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	Please enter the TAT Turnaround Codes ** below										Special Instructions				
						①	②	③	④	⑤	X									
<u>QCTB-1</u>	<u>7J04015</u>	<u>01</u>	<u>90-2-17</u>	<u>6:00 AM</u>	<u>GW</u>	<u>2</u>		X												
<u>QCEB-1</u>		<u>02</u>	<u>10-2-17</u>	<u>8:00 AM</u>	<u>GW</u>	<u>2</u>		X												
<u>GMW-64</u>		<u>03</u>	<u>10-2-17</u>	<u>9:45</u>	<u>GW</u>	<u>7</u>	X	X	X											
<u>GMW-63</u>		<u>04</u>	<u>10-2-17</u>	<u>9:05</u>	<u>GW</u>	<u>7</u>	X	X	X											
<u>GMW-65</u>		<u>05</u>	<u>10-2-17</u>	<u>10:15</u>	<u>GW</u>	<u>7</u>	X	X	X											
<u>GMW-67</u>		<u>06</u>	<u>10-2-17</u>	<u>10:55</u>	<u>GW</u>	<u>7</u>	X	X	X											
<u>GMW-69</u>		<u>07</u>	<u>10-2-17</u>	<u>11:30 AM</u>	<u>GW</u>	<u>7</u>	X	X	X											
<u>GMW-03</u>	<u>GW-3</u>	<u>08</u>	<u>10-2-17</u>	<u>1:50</u>	<u>GW</u>	<u>7</u>	X	X	X											
<u>EXP-2</u>		<u>09</u>	<u>10-2-17</u>	<u>2:20</u>	<u>GW</u>	<u>7</u>	X	X	X											
<u>MW-24</u>		<u>10</u>	<u>10-2-17</u>	<u>2:55</u>	<u>GW</u>	<u>7</u>	X	X	X											
<u>GW-8</u>		<u>11</u>	<u>10-3-17</u>	<u>8:30</u>	<u>GW</u>	<u>7</u>	X	X	X											
<u>GMW-42</u>		<u>12</u>	<u>10-3-17</u>	<u>9:10</u>	<u>GW</u>	<u>7</u>	X	X	X											
<u>GMW-44</u>		<u>13</u>	<u>10-3-17</u>	<u>9:50</u>	<u>GW</u>	<u>7</u>	X	X	X											
<u>GMW-69</u>		<u>14</u>	<u>10-3-17</u>	<u>10:30</u>	<u>GW</u>	<u>7</u>	X	X	X											
<u>QCEB-1</u>		<u>15</u>	<u>10-3-17</u>	<u>7:45</u>	<u>GW</u>	<u>7</u>		X												

SAMPLE INTEGRITY
INTACT Y N TEMP 40C

For Laboratory Use REVIEWED Date <u>10/4/17</u> Time <u>1445</u> TAT <u>N</u> Days Sign: <u>[Signature]</u>	Relinquished by <u>[Signature]</u>	Date <u>10-4-17</u>	Time <u>11:00</u>	Received by <u>[Signature]</u>
	Relinquished by <u>[Signature]</u>	Date <u>10-4-17</u>	Time <u>13:42</u>	Received by <u>[Signature]</u>
	Relinquished by <u>[Signature]</u>	Date	Time	Received by

A.A. Project No.: AS332319 / 7J04015

Note: By relinquishing samples to American Analytics, client agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analytics.



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

Tel: 818-998-5547 FAX: 818-998-7258

A.A. COC No.: 13780

70049779

Page 2 of 2

Client: <u>APEX-SGI</u>	Project Name / No.: <u>DFSP Norwalk</u>	Sampler's Name: <u>DAVID LUBBOCK</u>
Project Manager: <u>DW SWENSSON</u>	Site Address: <u>15603 Norwalk Blvd.</u>	Sampler's Signature: <u>[Signature]</u>
Phone: <u>1-862-597-1055</u>	City: <u>Norwalk</u>	P.O. No.: <u>—</u>
Fax: <u>1-862-597-1070</u>	State & Zip: <u>Ca 9</u>	Quote No.: <u>—</u>

TAT Turnaround Codes **

- ① = Same Day Rush
- ② = 24 Hour Rush
- ③ = 48 Hour Rush
- ④ = 72 Hour Rush
- ⑤ = 5 Day Rush
- X = 10 Working Days (Standard TAT)

ANALYSIS REQUESTED (Test Name)

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	Please enter the TAT Turnaround Codes ** below										Special Instructions		
						2010mD	8260B	8015TPH-6										
GMW-6	FJOYALS -16	10-3-17	12 ⁰⁰	GW	7	X	X	X										
DUP-2	-17	10-3-17	XXXX	GW	7	X	X	X										
GMW-56	-18	10-3-17	100	GW	7	X	X	X										
MW-13	-19	10-3-17	135	GW	7	X	X	X										
GW-16	-20	10-3-17	215	GW	7	X	X	X										
MW-17	-21	10-3-17	250	GW	7	X	X	X										
DUP-1	-22	10-2-17	XXXX	GW	7	X	X	X										

SAMPLE INTEGRITY
INTACT & N-TEMP

For Laboratory Use REVIEWED Date <u>10/4/17</u> Time <u>1445</u> TAT <u>N</u> Days Sign: <u>[Signature]</u>	Relinquished by <u>[Signature]</u>	Date <u>10-4-17</u>	Time <u>1106</u>	Received by <u>[Signature]</u>
	Relinquished by <u>[Signature]</u>	Date <u>10-4-17</u>	Time <u>13:47</u>	Received by <u>[Signature]</u>
	Relinquished by _____	Date _____	Time _____	Received by _____

A.A. Project No.: A5332319 / FJOYALS

Note: By relinquishing samples to American Analytics, client agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analytics.



9765 Eton Avenue
Chatsworth
California 91311
Tel: (818) 998-5547
Fax: (818) 998-7258

October 18, 2017

Neil Irish

The Source Group, Inc. (SH)
1962 Freeman Ave.
Signal Hill, CA 90755

**Re : DFSP Norwalk GW Sampling / 04-NDLA-013
A5332321 / 7J05019**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 10/05/17 10:13 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytics.

Sincerely,

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
-----------	---------------	--------	-----	--------------	---------------

8260B+OXY+TPHG

QCTB-1	7J05019-01	Water	5	10/04/17 06:00	10/05/17 10:13
QCEB-1	7J05019-02	Water	5	10/04/17 08:00	10/05/17 10:13

8260B+OXYGENATES

MW-16	7J05019-03	Water	5	10/04/17 08:45	10/05/17 10:13
GMW-47	7J05019-04	Water	5	10/04/17 09:15	10/05/17 10:13
GMW-57	7J05019-05	Water	5	10/04/17 09:50	10/05/17 10:13
GMW-66R	7J05019-06	Water	5	10/04/17 10:30	10/05/17 10:13
EXP-1	7J05019-07	Water	5	10/04/17 11:30	10/05/17 10:13
DUP-3	7J05019-08	Water	5	10/04/17 00:00	10/05/17 10:13
EXP-3	7J05019-09	Water	5	10/04/17 12:10	10/05/17 10:13
GMW-12	7J05019-10	Water	5	10/04/17 13:00	10/05/17 10:13
MW-29	7J05019-11	Water	5	10/04/17 13:35	10/05/17 10:13
MW-27	7J05019-12	Water	5	10/04/17 14:10	10/05/17 10:13
MW-26	7J05019-13	Water	5	10/04/17 14:45	10/05/17 10:13
DUP-4	7J05019-14	Water	5	10/04/17 00:00	10/05/17 10:13

Diesel Range Organics 8015M

MW-16	7J05019-03	Water	5	10/04/17 08:45	10/05/17 10:13
GMW-47	7J05019-04	Water	5	10/04/17 09:15	10/05/17 10:13

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
GMW-57	7J05019-05	Water	5	10/04/17 09:50	10/05/17 10:13
GMW-66R	7J05019-06	Water	5	10/04/17 10:30	10/05/17 10:13
EXP-1	7J05019-07	Water	5	10/04/17 11:30	10/05/17 10:13
DUP-3	7J05019-08	Water	5	10/04/17 00:00	10/05/17 10:13
EXP-3	7J05019-09	Water	5	10/04/17 12:10	10/05/17 10:13
GMW-12	7J05019-10	Water	5	10/04/17 13:00	10/05/17 10:13
MW-29	7J05019-11	Water	5	10/04/17 13:35	10/05/17 10:13
MW-27	7J05019-12	Water	5	10/04/17 14:10	10/05/17 10:13
MW-26	7J05019-13	Water	5	10/04/17 14:45	10/05/17 10:13
DUP-4	7J05019-14	Water	5	10/04/17 00:00	10/05/17 10:13

Gasoline Range Organics 8015M

MW-16	7J05019-03	Water	5	10/04/17 08:45	10/05/17 10:13
GMW-47	7J05019-04	Water	5	10/04/17 09:15	10/05/17 10:13
GMW-57	7J05019-05	Water	5	10/04/17 09:50	10/05/17 10:13
GMW-66R	7J05019-06	Water	5	10/04/17 10:30	10/05/17 10:13
EXP-1	7J05019-07	Water	5	10/04/17 11:30	10/05/17 10:13
DUP-3	7J05019-08	Water	5	10/04/17 00:00	10/05/17 10:13
EXP-3	7J05019-09	Water	5	10/04/17 12:10	10/05/17 10:13
GMW-12	7J05019-10	Water	5	10/04/17 13:00	10/05/17 10:13
MW-29	7J05019-11	Water	5	10/04/17 13:35	10/05/17 10:13

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
MW-27	7J05019-12	Water	5	10/04/17 14:10	10/05/17 10:13
MW-26	7J05019-13	Water	5	10/04/17 14:45	10/05/17 10:13
DUP-4	7J05019-14	Water	5	10/04/17 00:00	10/05/17 10:13

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs, OXY & TPH Gasoline by GC/MS

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/04/17	10/04/17	
Date Prepared:	10/11/17	10/11/17	
Date Analyzed:	10/11/17	10/11/17	
AA ID No:	7J05019-01	7J05019-02	
Client ID No:	QCTB-1	QCEB-1	
Matrix:	Water	Water	
Dilution Factor:	1	1	MRL

8260B+OXY+TPHG (EPA 8260B)

Acetone	<10	<10	10
tert-Amyl Methyl Ether (TAME)	<2.0	<2.0	2.0
Benzene	<0.50	<0.50	0.50
Bromobenzene	<0.50	<0.50	0.50
Bromochloromethane	<0.50	<0.50	0.50
Bromodichloromethane	<0.50	<0.50	0.50
Bromoform	<0.50	<0.50	0.50
Bromomethane	<0.50	<0.50	0.50
2-Butanone (MEK)	<10	<10	10
tert-Butyl alcohol (TBA)	<10	<10	10
sec-Butylbenzene	<0.50	<0.50	0.50
tert-Butylbenzene	<0.50	<0.50	0.50
n-Butylbenzene	<0.50	<0.50	0.50
Carbon Disulfide	<0.50	<0.50	0.50
Carbon Tetrachloride	<0.50	<0.50	0.50
Chlorobenzene	<0.50	<0.50	0.50
Chloroethane	<0.50	<0.50	0.50
Chloroform	<0.50	<0.50	0.50
Chloromethane	<0.50	<0.50	0.50
2-Chlorotoluene	<0.50	<0.50	0.50
4-Chlorotoluene	<0.50	<0.50	0.50
1,2-Dibromo-3-chloropropane	<1.0	<1.0	1.0
Dibromochloromethane	<0.50	<0.50	0.50
1,2-Dibromoethane (EDB)	<0.50	<0.50	0.50
Dibromomethane	<0.50	<0.50	0.50
1,3-Dichlorobenzene	<0.50	<0.50	0.50
1,2-Dichlorobenzene	<0.50	<0.50	0.50

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs, OXY & TPH Gasoline by GC/MS

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/04/17	10/04/17	
Date Prepared:	10/11/17	10/11/17	
Date Analyzed:	10/11/17	10/11/17	
AA ID No:	7J05019-01	7J05019-02	
Client ID No:	QCTB-1	QCEB-1	
Matrix:	Water	Water	
Dilution Factor:	1	1	MRL

8260B+OXY+TPHG (EPA 8260B) (continued)

1,4-Dichlorobenzene	<0.50	<0.50	0.50
Dichlorodifluoromethane (R12)	<0.50	<0.50	0.50
1,1-Dichloroethane	<0.50	<0.50	0.50
1,2-Dichloroethane (EDC)	<0.50	<0.50	0.50
1,1-Dichloroethylene	<0.50	<0.50	0.50
trans-1,2-Dichloroethylene	<0.50	<0.50	0.50
cis-1,2-Dichloroethylene	<0.50	<0.50	0.50
1,2-Dichloropropane	<0.50	<0.50	0.50
2,2-Dichloropropane	<0.50	<0.50	0.50
1,3-Dichloropropane	<0.50	<0.50	0.50
cis-1,3-Dichloropropylene	<0.50	<0.50	0.50
trans-1,3-Dichloropropylene	<0.50	<0.50	0.50
1,1-Dichloropropylene	<0.50	<0.50	0.50
Diisopropyl ether (DIPE)	<2.0	<2.0	2.0
Ethylbenzene	<0.50	<0.50	0.50
Ethyl-tert-Butyl Ether (ETBE)	<2.0	<2.0	2.0
Gasoline Range Organics (GRO)	<100	<100	100
Hexachlorobutadiene	<1.0	<1.0	1.0
2-Hexanone (MBK)	<10	<10	10
Isopropylbenzene	<0.50	<0.50	0.50
4-Isopropyltoluene	<1.0	<1.0	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.0	<1.0	1.0
Methylene Chloride	<5.0	<5.0	5.0
4-Methyl-2-pentanone (MIBK)	<10	<10	10
Naphthalene	<2.0	<2.0	2.0
n-Propylbenzene	<0.50	<0.50	0.50

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs, OXY & TPH Gasoline by GC/MS

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/04/17	10/04/17	
Date Prepared:	10/11/17	10/11/17	
Date Analyzed:	10/11/17	10/11/17	
AA ID No:	7J05019-01	7J05019-02	
Client ID No:	QCTB-1	QCEB-1	
Matrix:	Water	Water	
Dilution Factor:	1	1	MRL

8260B+OXY+TPHG (EPA 8260B) (continued)

Styrene	<0.50	<0.50	0.50
1,1,1,2-Tetrachloroethane	<0.50	<0.50	0.50
1,1,2,2-Tetrachloroethane	<0.50	<0.50	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	0.50
Toluene	<0.50	<0.50	0.50
1,2,3-Trichlorobenzene	<0.50	<0.50	0.50
1,2,4-Trichlorobenzene	<0.50	<0.50	0.50
1,1,1-Trichloroethane	<0.50	<0.50	0.50
1,1,2-Trichloroethane	<0.50	<0.50	0.50
Trichloroethylene (TCE)	<0.50	<0.50	0.50
Trichlorofluoromethane (R11)	<0.50	<0.50	0.50
1,2,3-Trichloropropane	<0.50	<0.50	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	<0.50	0.50
1,3,5-Trimethylbenzene	<0.50	<0.50	0.50
1,2,4-Trimethylbenzene	<0.50	<0.50	0.50
Vinyl chloride	<0.50	<0.50	0.50
o-Xylene	<0.50	<0.50	0.50
m,p-Xylenes	<1.0	<1.0	1.0

Surrogates			%REC Limits
4-Bromofluorobenzene	99%	98%	70-140
Dibromofluoromethane	112%	112%	70-140
Toluene-d8	97%	95%	70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/04/17	10/04/17	10/04/17	10/04/17	
Date Prepared:	10/10/17	10/10/17	10/10/17	10/10/17	
Date Analyzed:	10/10/17	10/10/17	10/10/17	10/10/17	
AA ID No:	7J05019-03	7J05019-04	7J05019-05	7J05019-06	
Client ID No:	MW-16	GMW-47	GMW-57	GMW-66R	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

8260B+OXYGENATES (EPA 8260B)

Acetone	10	<10	<10	<10	10
tert-Amyl Methyl Ether (TAME)	<2.0	<2.0	<2.0	<2.0	2.0
Benzene	<0.50	<0.50	<0.50	<0.50	0.50
Bromobenzene	<0.50	<0.50	<0.50	<0.50	0.50
Bromochloromethane	<0.50	<0.50	<0.50	<0.50	0.50
Bromodichloromethane	<0.50	<0.50	<0.50	<0.50	0.50
Bromoform	<0.50	<0.50	<0.50	<0.50	0.50
Bromomethane	<0.50	<0.50	<0.50	<0.50	0.50
2-Butanone (MEK)	<10	<10	<10	<10	10
tert-Butyl alcohol (TBA)	<10	410	52	<10	10
sec-Butylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
tert-Butylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
n-Butylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
Carbon Disulfide	<0.50	<0.50	<0.50	<0.50	0.50
Carbon Tetrachloride	<0.50	<0.50	<0.50	<0.50	0.50
Chlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
Chloroethane	<0.50	<0.50	<0.50	<0.50	0.50
Chloroform	<0.50	<0.50	<0.50	<0.50	0.50
Chloromethane	<0.50	<0.50	<0.50	<0.50	0.50
2-Chlorotoluene	<0.50	<0.50	<0.50	<0.50	0.50
4-Chlorotoluene	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dibromo-3-chloropropane	<1.0	<1.0	<1.0	<1.0	1.0
Dibromochloromethane	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dibromoethane (EDB)	<0.50	<0.50	<0.50	<0.50	0.50
Dibromomethane	<0.50	<0.50	<0.50	<0.50	0.50
1,3-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/04/17	10/04/17	10/04/17	10/04/17
Date Prepared:	10/10/17	10/10/17	10/10/17	10/10/17
Date Analyzed:	10/10/17	10/10/17	10/10/17	10/10/17
AA ID No:	7J05019-03	7J05019-04	7J05019-05	7J05019-06
Client ID No:	MW-16	GMW-47	GMW-57	GMW-66R
Matrix:	Water	Water	Water	Water
Dilution Factor:	1	1	1	1
				MRL

8260B+OXYGENATES (EPA 8260B) (continued)

1,4-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
Dichlorodifluoromethane (R12)	<0.50	<0.50	<0.50	<0.50	0.50
1,1-Dichloroethane	<0.50	0.96	0.64	<0.50	0.50
1,2-Dichloroethane (EDC)	<0.50	<0.50	<0.50	<0.50	0.50
1,1-Dichloroethylene	<0.50	<0.50	<0.50	<0.50	0.50
trans-1,2-Dichloroethylene	<0.50	<0.50	<0.50	<0.50	0.50
cis-1,2-Dichloroethylene	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50	0.50
2,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50	0.50
1,3-Dichloropropane	<0.50	<0.50	<0.50	<0.50	0.50
cis-1,3-Dichloropropylene	<0.50	<0.50	<0.50	<0.50	0.50
trans-1,3-Dichloropropylene	<0.50	<0.50	<0.50	<0.50	0.50
1,1-Dichloropropylene	<0.50	<0.50	<0.50	<0.50	0.50
Diisopropyl ether (DIPE)	<2.0	<2.0	<2.0	<2.0	2.0
Ethylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
Ethyl-tert-Butyl Ether (ETBE)	<2.0	<2.0	<2.0	<2.0	2.0
Hexachlorobutadiene	<1.0	<1.0	<1.0	<1.0	1.0
2-Hexanone (MBK)	<10	<10	<10	<10	10
Isopropylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
4-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.0	8.6	5.1	<1.0	1.0
Methylene Chloride	<5.0	<5.0	<5.0	<5.0	5.0
4-Methyl-2-pentanone (MIBK)	<10	<10	<10	<10	10
Naphthalene	<2.0	<2.0	<2.0	<2.0	2.0
n-Propylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
Styrene	<0.50	<0.50	<0.50	<0.50	0.50
1,1,1,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	0.50

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/04/17	10/04/17	10/04/17	10/04/17	
Date Prepared:	10/10/17	10/10/17	10/10/17	10/10/17	
Date Analyzed:	10/10/17	10/10/17	10/10/17	10/10/17	
AA ID No:	7J05019-03	7J05019-04	7J05019-05	7J05019-06	
Client ID No:	MW-16	GMW-47	GMW-57	GMW-66R	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

8260B+OXYGENATES (EPA 8260B) (continued)

1,1,2,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	<0.50	<0.50	0.50
Toluene	<0.50	<0.50	<0.50	<0.50	0.50
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
1,2,4-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
1,1,1-Trichloroethane	<0.50	<0.50	<0.50	<0.50	0.50
1,1,2-Trichloroethane	<0.50	<0.50	<0.50	<0.50	0.50
Trichloroethylene (TCE)	<0.50	<0.50	<0.50	<0.50	0.50
Trichlorofluoromethane (R11)	<0.50	<0.50	<0.50	<0.50	0.50
1,2,3-Trichloropropane	<0.50	<0.50	<0.50	<0.50	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	<0.50	<0.50	<0.50	0.50
1,3,5-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
1,2,4-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
Vinyl chloride	<0.50	<0.50	<0.50	<0.50	0.50
o-Xylene	<0.50	<0.50	<0.50	<0.50	0.50
m,p-Xylenes	<1.0	<1.0	<1.0	<1.0	1.0

Surrogates

					<u>%REC Limits</u>
4-Bromofluorobenzene	97%	99%	98%	99%	70-140
Dibromofluoromethane	118%	113%	112%	114%	70-140
Toluene-d8	97%	97%	97%	97%	70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/04/17	10/04/17	10/04/17	10/04/17	
Date Prepared:	10/10/17	10/10/17	10/10/17	10/10/17	
Date Analyzed:	10/10/17	10/10/17	10/10/17	10/10/17	
AA ID No:	7J05019-07	7J05019-08	7J05019-09	7J05019-10	
Client ID No:	EXP-1	DUP-3	EXP-3	GMW-12	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

8260B+OXYGENATES (EPA 8260B)

Acetone	18	<10	<10	<10	10
tert-Amyl Methyl Ether (TAME)	<2.0	<2.0	<2.0	<2.0	2.0
Benzene	<0.50	<0.50	<0.50	<0.50	0.50
Bromobenzene	<0.50	<0.50	<0.50	<0.50	0.50
Bromochloromethane	<0.50	<0.50	<0.50	<0.50	0.50
Bromodichloromethane	<0.50	<0.50	<0.50	<0.50	0.50
Bromoform	<0.50	<0.50	<0.50	<0.50	0.50
Bromomethane	<0.50	<0.50	<0.50	<0.50	0.50
2-Butanone (MEK)	<10	<10	<10	<10	10
tert-Butyl alcohol (TBA)	<10	<10	<10	<10	10
sec-Butylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
tert-Butylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
n-Butylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
Carbon Disulfide	<0.50	<0.50	<0.50	<0.50	0.50
Carbon Tetrachloride	<0.50	<0.50	<0.50	<0.50	0.50
Chlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
Chloroethane	<0.50	<0.50	<0.50	<0.50	0.50
Chloroform	<0.50	<0.50	<0.50	<0.50	0.50
Chloromethane	<0.50	<0.50	<0.50	<0.50	0.50
2-Chlorotoluene	<0.50	<0.50	<0.50	<0.50	0.50
4-Chlorotoluene	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dibromo-3-chloropropane	<1.0	<1.0	<1.0	<1.0	1.0
Dibromochloromethane	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dibromoethane (EDB)	<0.50	<0.50	<0.50	<0.50	0.50
Dibromomethane	<0.50	<0.50	<0.50	<0.50	0.50
1,3-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/04/17	10/04/17	10/04/17	10/04/17	
Date Prepared:	10/10/17	10/10/17	10/10/17	10/10/17	
Date Analyzed:	10/10/17	10/10/17	10/10/17	10/10/17	
AA ID No:	7J05019-07	7J05019-08	7J05019-09	7J05019-10	
Client ID No:	EXP-1	DUP-3	EXP-3	GMW-12	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

8260B+OXYGENATES (EPA 8260B) (continued)

1,4-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
Dichlorodifluoromethane (R12)	<0.50	<0.50	<0.50	<0.50	0.50
1,1-Dichloroethane	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dichloroethane (EDC)	<0.50	<0.50	<0.50	<0.50	0.50
1,1-Dichloroethylene	<0.50	<0.50	<0.50	<0.50	0.50
trans-1,2-Dichloroethylene	<0.50	<0.50	<0.50	<0.50	0.50
cis-1,2-Dichloroethylene	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50	0.50
2,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50	0.50
1,3-Dichloropropane	<0.50	<0.50	<0.50	<0.50	0.50
cis-1,3-Dichloropropylene	<0.50	<0.50	<0.50	<0.50	0.50
trans-1,3-Dichloropropylene	<0.50	<0.50	<0.50	<0.50	0.50
1,1-Dichloropropylene	<0.50	<0.50	<0.50	<0.50	0.50
Diisopropyl ether (DIPE)	<2.0	<2.0	<2.0	<2.0	2.0
Ethylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
Ethyl-tert-Butyl Ether (ETBE)	<2.0	<2.0	<2.0	<2.0	2.0
Hexachlorobutadiene	<1.0	<1.0	<1.0	<1.0	1.0
2-Hexanone (MBK)	<10	<10	<10	<10	10
Isopropylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
4-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.0	<1.0	<1.0	<1.0	1.0
Methylene Chloride	<5.0	<5.0	<5.0	<5.0	5.0
4-Methyl-2-pentanone (MIBK)	<10	<10	<10	<10	10
Naphthalene	<2.0	<2.0	<2.0	<2.0	2.0
n-Propylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
Styrene	<0.50	<0.50	<0.50	<0.50	0.50
1,1,1,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	0.50

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/04/17	10/04/17	10/04/17	10/04/17	
Date Prepared:	10/10/17	10/10/17	10/10/17	10/10/17	
Date Analyzed:	10/10/17	10/10/17	10/10/17	10/10/17	
AA ID No:	7J05019-07	7J05019-08	7J05019-09	7J05019-10	
Client ID No:	EXP-1	DUP-3	EXP-3	GMW-12	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

8260B+OXYGENATES (EPA 8260B) (continued)

1,1,2,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	<0.50	<0.50	0.50
Toluene	<0.50	<0.50	<0.50	<0.50	0.50
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
1,2,4-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
1,1,1-Trichloroethane	<0.50	<0.50	<0.50	<0.50	0.50
1,1,2-Trichloroethane	<0.50	<0.50	<0.50	<0.50	0.50
Trichloroethylene (TCE)	<0.50	<0.50	<0.50	<0.50	0.50
Trichlorofluoromethane (R11)	<0.50	<0.50	<0.50	<0.50	0.50
1,2,3-Trichloropropane	<0.50	<0.50	<0.50	<0.50	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	<0.50	<0.50	<0.50	0.50
1,3,5-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
1,2,4-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
Vinyl chloride	<0.50	<0.50	<0.50	<0.50	0.50
o-Xylene	<0.50	<0.50	<0.50	<0.50	0.50
m,p-Xylenes	<1.0	<1.0	<1.0	<1.0	1.0

Surrogates

					%REC Limits
4-Bromofluorobenzene	100%	98%	100%	101%	70-140
Dibromofluoromethane	113%	112%	101%	108%	70-140
Toluene-d8	95%	98%	100%	99%	70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/04/17	10/04/17	10/04/17	10/04/17	
Date Prepared:	10/10/17	10/11/17	10/11/17	10/11/17	
Date Analyzed:	10/10/17	10/11/17	10/11/17	10/11/17	
AA ID No:	7J05019-11	7J05019-12	7J05019-13	7J05019-14	
Client ID No:	MW-29	MW-27	MW-26	DUP-4	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

8260B+OXYGENATES (EPA 8260B)

Acetone	<10	14	13	13	10
tert-Amyl Methyl Ether (TAME)	<2.0	<2.0	<2.0	<2.0	2.0
Benzene	<0.50	<0.50	1.0	0.91	0.50
Bromobenzene	<0.50	<0.50	<0.50	<0.50	0.50
Bromochloromethane	<0.50	<0.50	<0.50	<0.50	0.50
Bromodichloromethane	<0.50	<0.50	<0.50	<0.50	0.50
Bromoform	<0.50	<0.50	<0.50	<0.50	0.50
Bromomethane	<0.50	<0.50	<0.50	<0.50	0.50
2-Butanone (MEK)	<10	<10	<10	<10	10
tert-Butyl alcohol (TBA)	<10	<10	<10	<10	10
sec-Butylbenzene	<0.50	<0.50	2.5	2.4	0.50
tert-Butylbenzene	<0.50	<0.50	0.98	0.94	0.50
n-Butylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
Carbon Disulfide	<0.50	<0.50	<0.50	<0.50	0.50
Carbon Tetrachloride	<0.50	<0.50	<0.50	<0.50	0.50
Chlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
Chloroethane	<0.50	<0.50	<0.50	<0.50	0.50
Chloroform	<0.50	<0.50	<0.50	<0.50	0.50
Chloromethane	<0.50	<0.50	<0.50	<0.50	0.50
2-Chlorotoluene	<0.50	<0.50	<0.50	<0.50	0.50
4-Chlorotoluene	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dibromo-3-chloropropane	<1.0	<1.0	<1.0	<1.0	1.0
Dibromochloromethane	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dibromoethane (EDB)	<0.50	<0.50	<0.50	<0.50	0.50
Dibromomethane	<0.50	<0.50	<0.50	<0.50	0.50
1,3-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/04/17	10/04/17	10/04/17	10/04/17	
Date Prepared:	10/10/17	10/11/17	10/11/17	10/11/17	
Date Analyzed:	10/10/17	10/11/17	10/11/17	10/11/17	
AA ID No:	7J05019-11	7J05019-12	7J05019-13	7J05019-14	
Client ID No:	MW-29	MW-27	MW-26	DUP-4	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

8260B+OXYGENATES (EPA 8260B) (continued)

1,4-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
Dichlorodifluoromethane (R12)	<0.50	<0.50	<0.50	<0.50	0.50
1,1-Dichloroethane	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dichloroethane (EDC)	<0.50	<0.50	<0.50	<0.50	0.50
1,1-Dichloroethylene	<0.50	<0.50	<0.50	<0.50	0.50
trans-1,2-Dichloroethylene	<0.50	<0.50	<0.50	<0.50	0.50
cis-1,2-Dichloroethylene	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50	0.50
2,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50	0.50
1,3-Dichloropropane	<0.50	<0.50	<0.50	<0.50	0.50
cis-1,3-Dichloropropylene	<0.50	<0.50	<0.50	<0.50	0.50
trans-1,3-Dichloropropylene	<0.50	<0.50	<0.50	<0.50	0.50
1,1-Dichloropropylene	<0.50	<0.50	<0.50	<0.50	0.50
Diisopropyl ether (DIPE)	<2.0	<2.0	<2.0	<2.0	2.0
Ethylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
Ethyl-tert-Butyl Ether (ETBE)	<2.0	<2.0	<2.0	<2.0	2.0
Hexachlorobutadiene	<1.0	<1.0	<1.0	<1.0	1.0
2-Hexanone (MBK)	<10	<10	<10	<10	10
Isopropylbenzene	<0.50	<0.50	13	13	0.50
4-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.0	3.1	<1.0	<1.0	1.0
Methylene Chloride	<5.0	<5.0	<5.0	<5.0	5.0
4-Methyl-2-pentanone (MIBK)	<10	<10	<10	<10	10
Naphthalene	<2.0	<2.0	4.5	4.8	2.0
n-Propylbenzene	<0.50	<0.50	7.2	7.2	0.50
Styrene	<0.50	<0.50	<0.50	<0.50	0.50
1,1,1,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	0.50

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/04/17	10/04/17	10/04/17	10/04/17	
Date Prepared:	10/10/17	10/11/17	10/11/17	10/11/17	
Date Analyzed:	10/10/17	10/11/17	10/11/17	10/11/17	
AA ID No:	7J05019-11	7J05019-12	7J05019-13	7J05019-14	
Client ID No:	MW-29	MW-27	MW-26	DUP-4	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

8260B+OXYGENATES (EPA 8260B) (continued)

1,1,2,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	<0.50	<0.50	0.50
Toluene	<0.50	<0.50	<0.50	<0.50	0.50
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
1,2,4-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
1,1,1-Trichloroethane	<0.50	<0.50	<0.50	<0.50	0.50
1,1,2-Trichloroethane	<0.50	<0.50	<0.50	<0.50	0.50
Trichloroethylene (TCE)	<0.50	<0.50	<0.50	<0.50	0.50
Trichlorofluoromethane (R11)	<0.50	<0.50	<0.50	<0.50	0.50
1,2,3-Trichloropropane	<0.50	<0.50	<0.50	<0.50	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	<0.50	<0.50	<0.50	0.50
1,3,5-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
1,2,4-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
Vinyl chloride	<0.50	<0.50	<0.50	<0.50	0.50
o-Xylene	<0.50	<0.50	<0.50	<0.50	0.50
m,p-Xylenes	<1.0	<1.0	<1.0	<1.0	1.0

Surrogates

					%REC Limits
4-Bromofluorobenzene	102%	99%	96%	90%	70-140
Dibromofluoromethane	110%	112%	112%	113%	70-140
Toluene-d8	97%	97%	98%	97%	70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: Diesel Range Organics by GC/FID

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17
Units: mg/L

Date Sampled:	10/04/17	10/04/17	10/04/17	10/04/17	
Date Prepared:	10/06/17	10/06/17	10/06/17	10/06/17	
Date Analyzed:	10/06/17	10/06/17	10/06/17	10/06/17	
AA ID No:	7J05019-03	7J05019-04	7J05019-05	7J05019-06	
Client ID No:	MW-16	GMW-47	GMW-57	GMW-66R	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

Diesel Range Organics 8015M (EPA 8015M)

Diesel Range Organics as Diesel	0.10	0.98	0.38	<0.10	0.10
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Surrogates

o-Terphenyl	114%	135%	129%	128%	<u>%REC Limits</u> 50-150
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: Diesel Range Organics by GC/FID

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17
Units: mg/L

Date Sampled:	10/04/17	10/04/17	10/04/17	10/04/17	
Date Prepared:	10/06/17	10/06/17	10/06/17	10/06/17	
Date Analyzed:	10/06/17	10/06/17	10/06/17	10/06/17	
AA ID No:	7J05019-07	7J05019-08	7J05019-09	7J05019-10	
Client ID No:	EXP-1	DUP-3	EXP-3	GMW-12	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

Diesel Range Organics 8015M (EPA 8015M)

Diesel Range Organics as Diesel	0.26	0.31	0.16	1.1	0.10
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Surrogates

o-Terphenyl	100%	128%	131%	137%	<u>%REC Limits</u> 50-150
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Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: Diesel Range Organics by GC/FID

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17
Units: mg/L

Date Sampled:	10/04/17	10/04/17	10/04/17	10/04/17	
Date Prepared:	10/06/17	10/06/17	10/06/17	10/06/17	
Date Analyzed:	10/06/17	10/06/17	10/06/17	10/06/17	
AA ID No:	7J05019-11	7J05019-12	7J05019-13	7J05019-14	
Client ID No:	MW-29	MW-27	MW-26	DUP-4	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

Diesel Range Organics 8015M (EPA 8015M)

Diesel Range Organics as Diesel	0.63	0.26	0.37	0.33	0.10
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Surrogates

o-Terphenyl	106%	102%	134%	116%	<u>%REC Limits</u> 50-150
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Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: Gasoline Range Organics by GC/FID

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/04/17	10/04/17	10/04/17	10/04/17	
Date Prepared:	10/10/17	10/10/17	10/10/17	10/11/17	
Date Analyzed:	10/10/17	10/10/17	10/10/17	10/11/17	
AA ID No:	7J05019-03	7J05019-04	7J05019-05	7J05019-06	
Client ID No:	MW-16	GMW-47	GMW-57	GMW-66R	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

Gasoline Range Organics 8015M (EPA 8015M)

Gasoline Range Organics (GRO)	<100	<100	<100	<100	100
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Surrogates

a,a,a-Trifluorotoluene	91%	92%	89%	106%	<u>%REC Limits</u> 80-120
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Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: Gasoline Range Organics by GC/FID

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/04/17	10/04/17	10/04/17	10/04/17	
Date Prepared:	10/10/17	10/10/17	10/10/17	10/10/17	
Date Analyzed:	10/10/17	10/10/17	10/10/17	10/10/17	
AA ID No:	7J05019-07	7J05019-08	7J05019-09	7J05019-10	
Client ID No:	EXP-1	DUP-3	EXP-3	GMW-12	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

Gasoline Range Organics 8015M (EPA 8015M)

Gasoline Range Organics (GRO)	<100	<100	<100	<100	100
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Surrogates

a,a,a-Trifluorotoluene	101%	88%	88%	88%	<u>%REC Limits</u> 80-120
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Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: Gasoline Range Organics by GC/FID

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/04/17	10/04/17	10/04/17	10/04/17	
Date Prepared:	10/11/17	10/11/17	10/11/17	10/11/17	
Date Analyzed:	10/11/17	10/11/17	10/11/17	10/11/17	
AA ID No:	7J05019-11	7J05019-12	7J05019-13	7J05019-14	
Client ID No:	MW-29	MW-27	MW-26	DUP-4	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

Gasoline Range Organics 8015M (EPA 8015M)

Gasoline Range Organics (GRO)	<100	<100	210	230	100
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Surrogates

a,a,a-Trifluorotoluene	86%	88%	95%	92%	<u>%REC Limits</u> 80-120
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J1144 - EPA 5030B

Blank (B7J1144-BLK1)

Prepared & Analyzed: 10/11/17

Acetone	<10	10	ug/L							
tert-Amyl Methyl Ether (TAME)	<2.0	2.0	ug/L							
Benzene	<0.50	0.50	ug/L							
Bromobenzene	<0.50	0.50	ug/L							
Bromochloromethane	<0.50	0.50	ug/L							
Bromodichloromethane	<0.50	0.50	ug/L							
Bromoform	<0.50	0.50	ug/L							
Bromomethane	<0.50	0.50	ug/L							
2-Butanone (MEK)	<10	10	ug/L							
tert-Butyl alcohol (TBA)	<10	10	ug/L							
sec-Butylbenzene	<0.50	0.50	ug/L							
tert-Butylbenzene	<0.50	0.50	ug/L							
n-Butylbenzene	<0.50	0.50	ug/L							
Carbon Disulfide	<0.50	0.50	ug/L							
Carbon Tetrachloride	<0.50	0.50	ug/L							
Chlorobenzene	<0.50	0.50	ug/L							
Chloroethane	<0.50	0.50	ug/L							
Chloroform	<0.50	0.50	ug/L							
Chloromethane	<0.50	0.50	ug/L							
2-Chlorotoluene	<0.50	0.50	ug/L							
4-Chlorotoluene	<0.50	0.50	ug/L							
1,2-Dibromo-3-chloropropane	<1.0	1.0	ug/L							
Dibromochloromethane	<0.50	0.50	ug/L							
1,2-Dibromoethane (EDB)	<0.50	0.50	ug/L							
Dibromomethane	<0.50	0.50	ug/L							
1,3-Dichlorobenzene	<0.50	0.50	ug/L							
1,2-Dichlorobenzene	<0.50	0.50	ug/L							
1,4-Dichlorobenzene	<0.50	0.50	ug/L							
Dichlorodifluoromethane (R12)	<0.50	0.50	ug/L							
1,1-Dichloroethane	<0.50	0.50	ug/L							
1,2-Dichloroethane (EDC)	<0.50	0.50	ug/L							

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J1144 - EPA 5030B

Blank (B7J1144-BLK1) Continued

Prepared & Analyzed: 10/11/17

1,1-Dichloroethylene	<0.50	0.50	ug/L
trans-1,2-Dichloroethylene	<0.50	0.50	ug/L
cis-1,2-Dichloroethylene	<0.50	0.50	ug/L
1,2-Dichloropropane	<0.50	0.50	ug/L
2,2-Dichloropropane	<0.50	0.50	ug/L
1,3-Dichloropropane	<0.50	0.50	ug/L
cis-1,3-Dichloropropylene	<0.50	0.50	ug/L
trans-1,3-Dichloropropylene	<0.50	0.50	ug/L
1,1-Dichloropropylene	<0.50	0.50	ug/L
Diisopropyl ether (DIPE)	<2.0	2.0	ug/L
Ethylbenzene	<0.50	0.50	ug/L
Ethyl-tert-Butyl Ether (ETBE)	<2.0	2.0	ug/L
Gasoline Range Organics (GRO)	<100	100	ug/L
Hexachlorobutadiene	<1.0	1.0	ug/L
2-Hexanone (MBK)	<10	10	ug/L
Isopropylbenzene	<0.50	0.50	ug/L
4-Isopropyltoluene	<1.0	1.0	ug/L
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L
Methylene Chloride	<5.0	5.0	ug/L
4-Methyl-2-pentanone (MIBK)	<10	10	ug/L
Naphthalene	<2.0	2.0	ug/L
n-Propylbenzene	<0.50	0.50	ug/L
Styrene	<0.50	0.50	ug/L
1,1,1,2-Tetrachloroethane	<0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	<0.50	0.50	ug/L
Tetrachloroethylene (PCE)	<0.50	0.50	ug/L
Toluene	<0.50	0.50	ug/L
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L
1,2,4-Trichlorobenzene	<0.50	0.50	ug/L
1,1,1-Trichloroethane	<0.50	0.50	ug/L
1,1,2-Trichloroethane	<0.50	0.50	ug/L

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J1144 - EPA 5030B

Blank (B7J1144-BLK1) Continued

Prepared & Analyzed: 10/11/17

Trichloroethylene (TCE)	<0.50	0.50	ug/L
Trichlorofluoromethane (R11)	<0.50	0.50	ug/L
1,2,3-Trichloropropane	<0.50	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	0.50	ug/L
1,3,5-Trimethylbenzene	<0.50	0.50	ug/L
1,2,4-Trimethylbenzene	<0.50	0.50	ug/L
Vinyl chloride	<0.50	0.50	ug/L
o-Xylene	<0.50	0.50	ug/L
m,p-Xylenes	<1.0	1.0	ug/L

Surrogate: 4-Bromofluorobenzene	48.1		ug/L	50		96.2	70-140
Surrogate: Dibromofluoromethane	56.1		ug/L	50		112	70-140
Surrogate: Toluene-d8	48.7		ug/L	50		97.3	70-140

LCS (B7J1144-BS1)

Prepared & Analyzed: 10/11/17

Acetone	22.9	10	ug/L	20		114	70-130
tert-Amyl Methyl Ether (TAME)	18.2	2.0	ug/L	20		91.2	70-130
Benzene	21.3	0.50	ug/L	20		106	75-125
Bromobenzene	22.6	0.50	ug/L	20		113	70-130
Bromochloromethane	19.8	0.50	ug/L	20		98.9	70-130
Bromodichloromethane	20.2	0.50	ug/L	20		101	75-125
Bromoform	21.2	0.50	ug/L	20		106	75-125
Bromomethane	20.6	0.50	ug/L	20		103	75-125
2-Butanone (MEK)	21.4	10	ug/L	20		107	70-130
tert-Butyl alcohol (TBA)	83.5	10	ug/L	100		83.5	70-130
sec-Butylbenzene	23.2	0.50	ug/L	20		116	70-130
tert-Butylbenzene	23.6	0.50	ug/L	20		118	70-130
n-Butylbenzene	23.6	0.50	ug/L	20		118	70-130
Carbon Disulfide	20.4	0.50	ug/L	20		102	70-130
Carbon Tetrachloride	21.2	0.50	ug/L	20		106	75-125
Chlorobenzene	22.6	0.50	ug/L	20		113	75-125
Chloroethane	19.3	0.50	ug/L	20		96.7	75-125

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J1144 - EPA 5030B

LCS (B7J1144-BS1) Continued

Prepared & Analyzed: 10/11/17

Chloroform	20.0	0.50	ug/L	20	100	75-125
Chloromethane	18.7	0.50	ug/L	20	93.6	65-125
2-Chlorotoluene	22.8	0.50	ug/L	20	114	70-130
4-Chlorotoluene	22.2	0.50	ug/L	20	111	70-130
1,2-Dibromo-3-chloropropane	19.3	1.0	ug/L	20	96.4	70-130
Dibromochloromethane	20.9	0.50	ug/L	20	104	75-125
1,2-Dibromoethane (EDB)	20.2	0.50	ug/L	20	101	70-130
Dibromomethane	20.3	0.50	ug/L	20	102	70-130
1,3-Dichlorobenzene	21.9	0.50	ug/L	20	110	70-130
1,2-Dichlorobenzene	23.0	0.50	ug/L	20	115	70-130
1,4-Dichlorobenzene	21.8	0.50	ug/L	20	109	75-125
Dichlorodifluoromethane (R12)	18.8	0.50	ug/L	20	93.8	70-130
1,1-Dichloroethane	20.7	0.50	ug/L	20	103	70-125
1,2-Dichloroethane (EDC)	19.4	0.50	ug/L	20	97.0	75-125
1,1-Dichloroethylene	20.5	0.50	ug/L	20	103	70-130
trans-1,2-Dichloroethylene	21.9	0.50	ug/L	20	110	75-125
cis-1,2-Dichloroethylene	21.5	0.50	ug/L	20	107	75-125
1,2-Dichloropropane	21.0	0.50	ug/L	20	105	75-130
2,2-Dichloropropane	21.1	0.50	ug/L	20	105	70-130
1,3-Dichloropropane	20.3	0.50	ug/L	20	102	70-130
cis-1,3-Dichloropropylene	21.6	0.50	ug/L	20	108	75-125
trans-1,3-Dichloropropylene	20.8	0.50	ug/L	20	104	70-130
1,1-Dichloropropylene	22.4	0.50	ug/L	20	112	70-130
Diisopropyl ether (DIPE)	20.4	2.0	ug/L	20	102	70-130
Ethylbenzene	23.2	0.50	ug/L	20	116	75-125
Ethyl-tert-Butyl Ether (ETBE)	19.7	2.0	ug/L	20	98.4	70-130
Gasoline Range Organics (GRO)	571	100	ug/L	500	114	70-130
Hexachlorobutadiene	23.7	1.0	ug/L	20	119	70-130
2-Hexanone (MBK)	18.6	10	ug/L	20	93.2	70-130
Isopropylbenzene	23.9	0.50	ug/L	20	120	70-130
4-Isopropyltoluene	22.2	1.0	ug/L	20	111	70-130

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J1144 - EPA 5030B

LCS (B7J1144-BS1) Continued

Prepared & Analyzed: 10/11/17

Methyl-tert-Butyl Ether (MTBE)	35.8	1.0	ug/L	40		89.4	75-125			
Methylene Chloride	17.5	5.0	ug/L	20		87.6	75-130			
4-Methyl-2-pentanone (MIBK)	19.0	10	ug/L	20		95.1	70-130			
Naphthalene	23.6	2.0	ug/L	20		118	70-130			
n-Propylbenzene	23.7	0.50	ug/L	20		118	70-130			
Styrene	23.4	0.50	ug/L	20		117	70-130			
1,1,1,2-Tetrachloroethane	21.8	0.50	ug/L	20		109	70-130			
1,1,2,2-Tetrachloroethane	19.9	0.50	ug/L	20		99.4	70-135			
Tetrachloroethylene (PCE)	23.7	0.50	ug/L	20		118	75-125			
Toluene	21.5	0.50	ug/L	20		108	75-125			
1,2,3-Trichlorobenzene	24.0	0.50	ug/L	20		120	70-130			
1,2,4-Trichlorobenzene	24.1	0.50	ug/L	20		121	70-130			
1,1,1-Trichloroethane	21.2	0.50	ug/L	20		106	75-125			
1,1,2-Trichloroethane	20.2	0.50	ug/L	20		101	75-125			
Trichloroethylene (TCE)	21.8	0.50	ug/L	20		109	75-125			
Trichlorofluoromethane (R11)	19.6	0.50	ug/L	20		97.9	70-130			
1,2,3-Trichloropropane	18.2	0.50	ug/L	20		90.8	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	19.0	0.50	ug/L	20		95.0	70-130			
1,3,5-Trimethylbenzene	23.0	0.50	ug/L	20		115	70-130			
1,2,4-Trimethylbenzene	22.9	0.50	ug/L	20		114	70-130			
Vinyl chloride	18.5	0.50	ug/L	20		92.3	75-125			
o-Xylene	21.4	0.50	ug/L	20		107	75-125			
m,p-Xylenes	43.5	1.0	ug/L	40		109	70-130			

Surrogate: 4-Bromofluorobenzene	49.0		ug/L	50		97.9	70-140			
Surrogate: Dibromofluoromethane	46.5		ug/L	50		93.1	70-140			
Surrogate: Toluene-d8	49.6		ug/L	50		99.2	70-140			

Matrix Spike (B7J1144-MS1)

Source: 7J05019-12 Prepared & Analyzed: 10/11/17

Acetone	35.8	10	ug/L	20	13.5	111	70-130			
tert-Amyl Methyl Ether (TAME)	19.0	2.0	ug/L	20		94.8	70-130			
Benzene	21.6	0.50	ug/L	20		108	70-130			

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17

Analyte	Reporting Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J1144 - EPA 5030B

Matrix Spike (B7J1144-MS1) Continued Source: 7J05019-12 Prepared & Analyzed: 10/11/17

Bromobenzene	23.7	0.50	ug/L	20		118	70-130			
Bromochloromethane	21.8	0.50	ug/L	20		109	70-130			
Bromodichloromethane	20.9	0.50	ug/L	20		104	70-130			
Bromoform	22.0	0.50	ug/L	20		110	70-130			
Bromomethane	16.2	0.50	ug/L	20		81.0	70-130			
2-Butanone (MEK)	24.0	10	ug/L	20		120	70-130			
tert-Butyl alcohol (TBA)	94.5	10	ug/L	100		94.5	70-130			
sec-Butylbenzene	22.8	0.50	ug/L	20		114	70-130			
tert-Butylbenzene	23.6	0.50	ug/L	20	0.480	116	70-130			
n-Butylbenzene	22.8	0.50	ug/L	20		114	70-130			
Carbon Disulfide	19.5	0.50	ug/L	20		97.4	70-130			
Carbon Tetrachloride	20.8	0.50	ug/L	20		104	70-130			
Chlorobenzene	21.8	0.50	ug/L	20		109	70-130			
Chloroethane	18.2	0.50	ug/L	20		91.2	70-130			
Chloroform	20.3	0.50	ug/L	20		101	70-130			
Chloromethane	17.8	0.50	ug/L	20		88.8	70-130			
2-Chlorotoluene	23.1	0.50	ug/L	20		116	70-130			
4-Chlorotoluene	22.3	0.50	ug/L	20		112	70-130			
1,2-Dibromo-3-chloropropane	21.5	1.0	ug/L	20		107	70-130			
Dibromochloromethane	21.4	0.50	ug/L	20		107	70-130			
1,2-Dibromoethane (EDB)	21.4	0.50	ug/L	20		107	70-130			
Dibromomethane	21.4	0.50	ug/L	20		107	70-130			
1,3-Dichlorobenzene	22.3	0.50	ug/L	20		111	70-130			
1,2-Dichlorobenzene	23.7	0.50	ug/L	20		118	70-130			
1,4-Dichlorobenzene	22.0	0.50	ug/L	20		110	70-130			
Dichlorodifluoromethane (R12)	16.3	0.50	ug/L	20		81.3	70-130			
1,1-Dichloroethane	20.5	0.50	ug/L	20		103	70-130			
1,2-Dichloroethane (EDC)	19.9	0.50	ug/L	20		99.4	70-130			
1,1-Dichloroethylene	19.7	0.50	ug/L	20		98.6	70-130			
trans-1,2-Dichloroethylene	22.1	0.50	ug/L	20		110	70-130			
cis-1,2-Dichloroethylene	21.6	0.50	ug/L	20		108	70-130			

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J1144 - EPA 5030B

Matrix Spike (B7J1144-MS1) Continued Source: 7J05019-12 Prepared & Analyzed: 10/11/17

1,2-Dichloropropane	21.4	0.50	ug/L	20		107	70-130			
2,2-Dichloropropane	18.9	0.50	ug/L	20		94.4	70-130			
1,3-Dichloropropane	20.9	0.50	ug/L	20		104	70-130			
cis-1,3-Dichloropropylene	21.6	0.50	ug/L	20		108	70-130			
trans-1,3-Dichloropropylene	20.5	0.50	ug/L	20		103	70-130			
1,1-Dichloropropylene	22.2	0.50	ug/L	20		111	70-130			
Diisopropyl ether (DIPE)	21.4	2.0	ug/L	20		107	70-130			
Ethylbenzene	22.2	0.50	ug/L	20		111	70-130			
Ethyl-tert-Butyl Ether (ETBE)	20.7	2.0	ug/L	20		103	70-130			
Hexachlorobutadiene	21.6	1.0	ug/L	20		108	70-130			
2-Hexanone (MBK)	18.1	10	ug/L	20		90.4	70-130			
Isopropylbenzene	23.8	0.50	ug/L	20		119	70-130			
4-Isopropyltoluene	22.1	1.0	ug/L	20		110	70-130			
Methyl-tert-Butyl Ether (MTBE)	42.0	1.0	ug/L	40	3.13	97.2	70-130			
Methylene Chloride	16.9	5.0	ug/L	20		84.6	70-130			
4-Methyl-2-pentanone (MIBK)	20.9	10	ug/L	20		104	70-130			
Naphthalene	23.4	2.0	ug/L	20		117	70-130			
n-Propylbenzene	23.8	0.50	ug/L	20		119	70-130			
Styrene	22.4	0.50	ug/L	20		112	70-130			
1,1,1,2-Tetrachloroethane	21.6	0.50	ug/L	20		108	70-130			
1,1,2,2-Tetrachloroethane	21.0	0.50	ug/L	20		105	70-130			
Tetrachloroethylene (PCE)	22.7	0.50	ug/L	20		113	70-130			
Toluene	21.4	0.50	ug/L	20		107	70-130			
1,2,3-Trichlorobenzene	23.9	0.50	ug/L	20		120	70-130			
1,2,4-Trichlorobenzene	23.4	0.50	ug/L	20		117	70-130			
1,1,1-Trichloroethane	20.5	0.50	ug/L	20		103	70-130			
1,1,2-Trichloroethane	22.2	0.50	ug/L	20		111	70-130			
Trichloroethylene (TCE)	21.6	0.50	ug/L	20		108	70-130			
Trichlorofluoromethane (R11)	18.1	0.50	ug/L	20		90.6	70-130			
1,2,3-Trichloropropane	20.6	0.50	ug/L	20		103	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	18.6	0.50	ug/L	20		93.0	70-130			

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J1144 - EPA 5030B

Matrix Spike (B7J1144-MS1) Continued Source: 7J05019-12 Prepared & Analyzed: 10/11/17

1,3,5-Trimethylbenzene	23.1	0.50	ug/L	20		116	70-130			
1,2,4-Trimethylbenzene	23.1	0.50	ug/L	20		116	70-130			
Vinyl chloride	16.9	0.50	ug/L	20		84.4	70-130			
o-Xylene	20.7	0.50	ug/L	20		104	70-130			
m,p-Xylenes	42.5	1.0	ug/L	40		106	70-130			
Surrogate: 4-Bromofluorobenzene	48.2		ug/L	50		96.3	70-140			
Surrogate: Dibromofluoromethane	45.6		ug/L	50		91.2	70-140			
Surrogate: Toluene-d8	46.9		ug/L	50		93.9	70-140			

Matrix Spike Dup (B7J1144-MSD1) Source: 7J05019-12 Prepared & Analyzed: 10/11/17

Acetone	33.4	10	ug/L	20	13.5	99.4	70-130	6.83	30	
tert-Amyl Methyl Ether (TAME)	17.8	2.0	ug/L	20		88.8	70-130	6.59	30	
Benzene	21.3	0.50	ug/L	20		107	70-130	1.44	30	
Bromobenzene	23.4	0.50	ug/L	20		117	70-130	1.32	30	
Bromochloromethane	20.8	0.50	ug/L	20		104	70-130	4.46	30	
Bromodichloromethane	20.2	0.50	ug/L	20		101	70-130	3.26	30	
Bromoform	21.3	0.50	ug/L	20		106	70-130	3.19	30	
Bromomethane	18.0	0.50	ug/L	20		89.8	70-130	10.4	30	
2-Butanone (MEK)	22.7	10	ug/L	20		113	70-130	5.53	30	
tert-Butyl alcohol (TBA)	91.7	10	ug/L	100		91.7	70-130	2.94	30	
sec-Butylbenzene	23.1	0.50	ug/L	20		116	70-130	1.35	30	
tert-Butylbenzene	23.6	0.50	ug/L	20	0.480	116	70-130	0.127	30	
n-Butylbenzene	22.9	0.50	ug/L	20		115	70-130	0.700	30	
Carbon Disulfide	20.1	0.50	ug/L	20		101	70-130	3.18	30	
Carbon Tetrachloride	20.9	0.50	ug/L	20		104	70-130	0.336	30	
Chlorobenzene	21.6	0.50	ug/L	20		108	70-130	0.645	30	
Chloroethane	19.7	0.50	ug/L	20		98.6	70-130	7.69	30	
Chloroform	20.2	0.50	ug/L	20		101	70-130	0.396	30	
Chloromethane	17.6	0.50	ug/L	20		88.2	70-130	0.678	30	
2-Chlorotoluene	22.6	0.50	ug/L	20		113	70-130	2.14	30	
4-Chlorotoluene	22.2	0.50	ug/L	20		111	70-130	0.494	30	
1,2-Dibromo-3-chloropropane	19.9	1.0	ug/L	20		99.5	70-130	7.68	30	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
VOCs, OXY & TPH Gasoline by GC/MS - Quality Control										
<i>Batch B7J1144 - EPA 5030B</i>										
Matrix Spike Dup (B7J1144-MSD1) Source: 7J05019-12 Prepared & Analyzed: 10/11/17										
Continued										
Dibromochloromethane	20.9	0.50	ug/L	20		104	70-130	2.51	30	
1,2-Dibromoethane (EDB)	20.9	0.50	ug/L	20		104	70-130	2.41	30	
Dibromomethane	20.6	0.50	ug/L	20		103	70-130	3.82	30	
1,3-Dichlorobenzene	22.3	0.50	ug/L	20		112	70-130	0.224	30	
1,2-Dichlorobenzene	23.7	0.50	ug/L	20		119	70-130	0.169	30	
1,4-Dichlorobenzene	22.1	0.50	ug/L	20		110	70-130	0.454	30	
Dichlorodifluoromethane (R12)	16.8	0.50	ug/L	20		83.8	70-130	3.03	30	
1,1-Dichloroethane	20.6	0.50	ug/L	20		103	70-130	0.438	30	
1,2-Dichloroethane (EDC)	19.1	0.50	ug/L	20		95.4	70-130	4.05	30	
1,1-Dichloroethylene	20.2	0.50	ug/L	20		101	70-130	2.31	30	
trans-1,2-Dichloroethylene	21.2	0.50	ug/L	20		106	70-130	4.16	30	
cis-1,2-Dichloroethylene	21.7	0.50	ug/L	20		109	70-130	0.415	30	
1,2-Dichloropropane	20.6	0.50	ug/L	20		103	70-130	3.62	30	
2,2-Dichloropropane	18.8	0.50	ug/L	20		94.2	70-130	0.265	30	
1,3-Dichloropropane	20.3	0.50	ug/L	20		102	70-130	2.82	30	
cis-1,3-Dichloropropylene	21.2	0.50	ug/L	20		106	70-130	2.10	30	
trans-1,3-Dichloropropylene	19.6	0.50	ug/L	20		98.2	70-130	4.28	30	
1,1-Dichloropropylene	22.1	0.50	ug/L	20		111	70-130	0.496	30	
Diisopropyl ether (DIPE)	21.0	2.0	ug/L	20		105	70-130	1.93	30	
Ethylbenzene	22.0	0.50	ug/L	20		110	70-130	0.498	30	
Ethyl-tert-Butyl Ether (ETBE)	19.7	2.0	ug/L	20		98.6	70-130	4.80	30	
Hexachlorobutadiene	22.8	1.0	ug/L	20		114	70-130	5.32	30	
2-Hexanone (MBK)	17.5	10	ug/L	20		87.6	70-130	3.15	30	
Isopropylbenzene	23.7	0.50	ug/L	20		119	70-130	0.337	30	
4-Isopropyltoluene	22.3	1.0	ug/L	20		112	70-130	1.04	30	
Methyl-tert-Butyl Ether (MTBE)	40.8	1.0	ug/L	40	3.13	94.1	70-130	2.95	30	
Methylene Chloride	18.1	5.0	ug/L	20		90.6	70-130	6.85	30	
4-Methyl-2-pentanone (MIBK)	18.8	10	ug/L	20		93.8	70-130	10.7	30	
Naphthalene	25.8	2.0	ug/L	20		129	70-130	9.62	30	
n-Propylbenzene	23.5	0.50	ug/L	20		117	70-130	1.35	30	
Styrene	22.0	0.50	ug/L	20		110	70-130	1.76	30	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J1144 - EPA 5030B

Matrix Spike Dup (B7J1144-MSD1) Source: 7J05019-12 Prepared & Analyzed: 10/11/17

Continued

1,1,1,2-Tetrachloroethane	21.3	0.50	ug/L	20	107	70-130	1.26	30	
1,1,2,2-Tetrachloroethane	20.0	0.50	ug/L	20	100	70-130	5.02	30	
Tetrachloroethylene (PCE)	22.7	0.50	ug/L	20	113	70-130	0.00	30	
Toluene	21.2	0.50	ug/L	20	106	70-130	1.31	30	
1,2,3-Trichlorobenzene	25.5	0.50	ug/L	20	128	70-130	6.63	30	
1,2,4-Trichlorobenzene	24.7	0.50	ug/L	20	124	70-130	5.49	30	
1,1,1-Trichloroethane	20.8	0.50	ug/L	20	104	70-130	1.16	30	
1,1,2-Trichloroethane	20.7	0.50	ug/L	20	103	70-130	7.27	30	
Trichloroethylene (TCE)	22.0	0.50	ug/L	20	110	70-130	1.98	30	
Trichlorofluoromethane (R11)	18.6	0.50	ug/L	20	92.8	70-130	2.40	30	
1,2,3-Trichloropropane	19.4	0.50	ug/L	20	96.9	70-130	5.91	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	17.4	0.50	ug/L	20	86.8	70-130	6.84	30	
1,3,5-Trimethylbenzene	23.0	0.50	ug/L	20	115	70-130	0.738	30	
1,2,4-Trimethylbenzene	22.8	0.50	ug/L	20	114	70-130	1.22	30	
Vinyl chloride	17.3	0.50	ug/L	20	86.6	70-130	2.69	30	
o-Xylene	20.6	0.50	ug/L	20	103	70-130	0.774	30	
m,p-Xylenes	42.3	1.0	ug/L	40	106	70-130	0.354	30	
Surrogate: 4-Bromofluorobenzene	47.7		ug/L	50	95.5	70-140			
Surrogate: Dibromofluoromethane	45.9		ug/L	50	91.9	70-140			
Surrogate: Toluene-d8	46.8		ug/L	50	93.6	70-140			

VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1059 - EPA 5030B

Blank (B7J1059-BLK1) Prepared & Analyzed: 10/10/17

Acetone	<10	10	ug/L						
tert-Amyl Methyl Ether (TAME)	<2.0	2.0	ug/L						
Benzene	<0.50	0.50	ug/L						
Bromobenzene	<0.50	0.50	ug/L						
Bromochloromethane	<0.50	0.50	ug/L						
Bromodichloromethane	<0.50	0.50	ug/L						

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1059 - EPA 5030B

Blank (B7J1059-BLK1) Continued

Prepared & Analyzed: 10/10/17

Bromoform	<0.50	0.50	ug/L							
Bromomethane	<0.50	0.50	ug/L							
2-Butanone (MEK)	<10	10	ug/L							
tert-Butyl alcohol (TBA)	<10	10	ug/L							
sec-Butylbenzene	<0.50	0.50	ug/L							
tert-Butylbenzene	<0.50	0.50	ug/L							
n-Butylbenzene	<0.50	0.50	ug/L							
Carbon Disulfide	<0.50	0.50	ug/L							
Carbon Tetrachloride	<0.50	0.50	ug/L							
Chlorobenzene	<0.50	0.50	ug/L							
Chloroethane	<0.50	0.50	ug/L							
Chloroform	<0.50	0.50	ug/L							
Chloromethane	<0.50	0.50	ug/L							
2-Chlorotoluene	<0.50	0.50	ug/L							
4-Chlorotoluene	<0.50	0.50	ug/L							
1,2-Dibromo-3-chloropropane	<1.0	1.0	ug/L							
Dibromochloromethane	<0.50	0.50	ug/L							
1,2-Dibromoethane (EDB)	<0.50	0.50	ug/L							
Dibromomethane	<0.50	0.50	ug/L							
1,3-Dichlorobenzene	<0.50	0.50	ug/L							
1,2-Dichlorobenzene	<0.50	0.50	ug/L							
1,4-Dichlorobenzene	<0.50	0.50	ug/L							
Dichlorodifluoromethane (R12)	<0.50	0.50	ug/L							
1,1-Dichloroethane	<0.50	0.50	ug/L							
1,2-Dichloroethane (EDC)	<0.50	0.50	ug/L							
1,1-Dichloroethylene	<0.50	0.50	ug/L							
trans-1,2-Dichloroethylene	<0.50	0.50	ug/L							
cis-1,2-Dichloroethylene	<0.50	0.50	ug/L							
1,2-Dichloropropane	<0.50	0.50	ug/L							
2,2-Dichloropropane	<0.50	0.50	ug/L							
1,3-Dichloropropane	<0.50	0.50	ug/L							

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1059 - EPA 5030B

Blank (B7J1059-BLK1) Continued

Prepared & Analyzed: 10/10/17

cis-1,3-Dichloropropylene	<0.50	0.50	ug/L
trans-1,3-Dichloropropylene	<0.50	0.50	ug/L
1,1-Dichloropropylene	<0.50	0.50	ug/L
Diisopropyl ether (DIPE)	<2.0	2.0	ug/L
Ethylbenzene	<0.50	0.50	ug/L
Ethyl-tert-Butyl Ether (ETBE)	<2.0	2.0	ug/L
Hexachlorobutadiene	<1.0	1.0	ug/L
2-Hexanone (MBK)	<10	10	ug/L
Isopropylbenzene	<0.50	0.50	ug/L
4-Isopropyltoluene	<1.0	1.0	ug/L
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L
Methylene Chloride	<5.0	5.0	ug/L
4-Methyl-2-pentanone (MIBK)	<10	10	ug/L
Naphthalene	<2.0	2.0	ug/L
n-Propylbenzene	<0.50	0.50	ug/L
Styrene	<0.50	0.50	ug/L
1,1,1,2-Tetrachloroethane	<0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	<0.50	0.50	ug/L
Tetrachloroethylene (PCE)	<0.50	0.50	ug/L
Toluene	<0.50	0.50	ug/L
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L
1,2,4-Trichlorobenzene	<0.50	0.50	ug/L
1,1,1-Trichloroethane	<0.50	0.50	ug/L
1,1,2-Trichloroethane	<0.50	0.50	ug/L
Trichloroethylene (TCE)	<0.50	0.50	ug/L
Trichlorofluoromethane (R11)	<0.50	0.50	ug/L
1,2,3-Trichloropropane	<0.50	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	0.50	ug/L
1,3,5-Trimethylbenzene	<0.50	0.50	ug/L
1,2,4-Trimethylbenzene	<0.50	0.50	ug/L
Vinyl chloride	<0.50	0.50	ug/L

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1059 - EPA 5030B

Blank (B7J1059-BLK1) Continued

Prepared & Analyzed: 10/10/17

o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	49.1		ug/L	50		98.2	70-140			
Surrogate: Dibromofluoromethane	55.2		ug/L	50		110	70-140			
Surrogate: Toluene-d8	49.0		ug/L	50		97.9	70-140			

LCS (B7J1059-BS1)

Prepared & Analyzed: 10/10/17

Acetone	20.9	10	ug/L	20		104	70-130			
tert-Amyl Methyl Ether (TAME)	17.3	2.0	ug/L	20		86.5	70-130			
Benzene	21.0	0.50	ug/L	20		105	75-125			
Bromobenzene	22.7	0.50	ug/L	20		114	70-130			
Bromochloromethane	19.9	0.50	ug/L	20		99.6	70-130			
Bromodichloromethane	19.3	0.50	ug/L	20		96.6	75-125			
Bromoform	21.1	0.50	ug/L	20		106	75-125			
Bromomethane	19.9	0.50	ug/L	20		99.6	75-125			
2-Butanone (MEK)	20.2	10	ug/L	20		101	70-130			
tert-Butyl alcohol (TBA)	86.7	10	ug/L	100		86.7	70-130			
sec-Butylbenzene	23.7	0.50	ug/L	20		118	70-130			
tert-Butylbenzene	24.0	0.50	ug/L	20		120	70-130			
n-Butylbenzene	23.8	0.50	ug/L	20		119	70-130			
Carbon Disulfide	20.3	0.50	ug/L	20		101	70-130			
Carbon Tetrachloride	21.3	0.50	ug/L	20		106	75-125			
Chlorobenzene	22.7	0.50	ug/L	20		114	75-125			
Chloroethane	19.6	0.50	ug/L	20		97.9	75-125			
Chloroform	19.8	0.50	ug/L	20		98.8	75-125			
Chloromethane	19.0	0.50	ug/L	20		95.1	65-125			
2-Chlorotoluene	23.0	0.50	ug/L	20		115	70-130			
4-Chlorotoluene	22.8	0.50	ug/L	20		114	70-130			
1,2-Dibromo-3-chloropropane	18.3	1.0	ug/L	20		91.6	70-130			
Dibromochloromethane	20.8	0.50	ug/L	20		104	75-125			
1,2-Dibromoethane (EDB)	20.4	0.50	ug/L	20		102	70-130			
Dibromomethane	19.2	0.50	ug/L	20		96.0	70-130			

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1059 - EPA 5030B

LCS (B7J1059-BS1) Continued

Prepared & Analyzed: 10/10/17

1,3-Dichlorobenzene	22.3	0.50	ug/L	20		111	70-130			
1,2-Dichlorobenzene	22.9	0.50	ug/L	20		114	70-130			
1,4-Dichlorobenzene	22.1	0.50	ug/L	20		111	75-125			
Dichlorodifluoromethane (R12)	18.5	0.50	ug/L	20		92.7	70-130			
1,1-Dichloroethane	20.3	0.50	ug/L	20		101	70-125			
1,2-Dichloroethane (EDC)	18.5	0.50	ug/L	20		92.6	75-125			
1,1-Dichloroethylene	21.1	0.50	ug/L	20		105	70-130			
trans-1,2-Dichloroethylene	17.8	0.50	ug/L	20		89.1	75-125			
cis-1,2-Dichloroethylene	21.3	0.50	ug/L	20		107	75-125			
1,2-Dichloropropane	20.2	0.50	ug/L	20		101	75-130			
2,2-Dichloropropane	20.8	0.50	ug/L	20		104	70-130			
1,3-Dichloropropane	20.2	0.50	ug/L	20		101	70-130			
cis-1,3-Dichloropropylene	21.1	0.50	ug/L	20		105	75-125			
trans-1,3-Dichloropropylene	20.9	0.50	ug/L	20		105	70-130			
1,1-Dichloropropylene	22.5	0.50	ug/L	20		113	70-130			
Diisopropyl ether (DIPE)	19.8	2.0	ug/L	20		99.2	70-130			
Ethylbenzene	23.2	0.50	ug/L	20		116	75-125			
Ethyl-tert-Butyl Ether (ETBE)	19.4	2.0	ug/L	20		97.0	70-130			
Hexachlorobutadiene	24.3	1.0	ug/L	20		122	70-130			
2-Hexanone (MBK)	16.6	10	ug/L	20		82.9	70-130			
Isopropylbenzene	23.9	0.50	ug/L	20		120	70-130			
4-Isopropyltoluene	22.7	1.0	ug/L	20		113	70-130			
Methyl-tert-Butyl Ether (MTBE)	35.2	1.0	ug/L	40		87.9	75-125			
Methylene Chloride	17.0	5.0	ug/L	20		84.8	75-130			
4-Methyl-2-pentanone (MIBK)	17.4	10	ug/L	20		86.8	70-130			
Naphthalene	22.8	2.0	ug/L	20		114	70-130			
n-Propylbenzene	24.3	0.50	ug/L	20		122	70-130			
Styrene	23.2	0.50	ug/L	20		116	70-130			
1,1,1,2-Tetrachloroethane	21.9	0.50	ug/L	20		110	70-130			
1,1,2,2-Tetrachloroethane	19.0	0.50	ug/L	20		95.2	70-135			
Tetrachloroethylene (PCE)	23.7	0.50	ug/L	20		118	75-125			

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1059 - EPA 5030B

LCS (B7J1059-BS1) Continued

Prepared & Analyzed: 10/10/17

Toluene	21.9	0.50	ug/L	20		109	75-125			
1,2,3-Trichlorobenzene	24.1	0.50	ug/L	20		121	70-130			
1,2,4-Trichlorobenzene	24.0	0.50	ug/L	20		120	70-130			
1,1,1-Trichloroethane	20.9	0.50	ug/L	20		105	75-125			
1,1,2-Trichloroethane	21.0	0.50	ug/L	20		105	75-125			
Trichloroethylene (TCE)	21.8	0.50	ug/L	20		109	75-125			
Trichlorofluoromethane (R11)	19.5	0.50	ug/L	20		97.3	70-130			
1,2,3-Trichloropropane	19.2	0.50	ug/L	20		95.8	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	19.1	0.50	ug/L	20		95.6	70-130			
1,3,5-Trimethylbenzene	23.4	0.50	ug/L	20		117	70-130			
1,2,4-Trimethylbenzene	23.3	0.50	ug/L	20		116	70-130			
Vinyl chloride	18.9	0.50	ug/L	20		94.6	75-125			
o-Xylene	21.7	0.50	ug/L	20		108	75-125			
m,p-Xylenes	44.1	1.0	ug/L	40		110	70-130			
Surrogate: 4-Bromofluorobenzene	49.1		ug/L	50		98.1	70-140			
Surrogate: Dibromofluoromethane	44.7		ug/L	50		89.5	70-140			
Surrogate: Toluene-d8	49.5		ug/L	50		99.0	70-140			

Matrix Spike (B7J1059-MS1)

Source: 7J04015-12 Prepared & Analyzed: 10/10/17

Acetone	22.4	10	ug/L	20		112	70-130			
tert-Amyl Methyl Ether (TAME)	17.8	2.0	ug/L	20		88.8	70-130			
Benzene	21.2	0.50	ug/L	20		106	70-130			
Bromobenzene	21.6	0.50	ug/L	20		108	70-130			
Bromochloromethane	20.4	0.50	ug/L	20		102	70-130			
Bromodichloromethane	20.5	0.50	ug/L	20		102	70-130			
Bromoform	21.7	0.50	ug/L	20		108	70-130			
Bromomethane	16.2	0.50	ug/L	20		80.8	70-130			
2-Butanone (MEK)	23.2	10	ug/L	20		116	70-130			
tert-Butyl alcohol (TBA)	83.2	10	ug/L	100		83.2	70-130			
sec-Butylbenzene	21.8	0.50	ug/L	20		109	70-130			
tert-Butylbenzene	22.2	0.50	ug/L	20		111	70-130			

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1059 - EPA 5030B

Matrix Spike (B7J1059-MS1) Continued Source: 7J04015-12 Prepared & Analyzed: 10/10/17

n-Butylbenzene	21.6	0.50	ug/L	20		108	70-130			
Carbon Disulfide	19.2	0.50	ug/L	20		95.8	70-130			
Carbon Tetrachloride	21.0	0.50	ug/L	20		105	70-130			
Chlorobenzene	21.8	0.50	ug/L	20		109	70-130			
Chloroethane	19.0	0.50	ug/L	20		94.8	70-130			
Chloroform	20.0	0.50	ug/L	20		100	70-130			
Chloromethane	17.3	0.50	ug/L	20		86.7	70-130			
2-Chlorotoluene	21.3	0.50	ug/L	20		106	70-130			
4-Chlorotoluene	21.0	0.50	ug/L	20		105	70-130			
1,2-Dibromo-3-chloropropane	19.3	1.0	ug/L	20		96.5	70-130			
Dibromochloromethane	21.6	0.50	ug/L	20		108	70-130			
1,2-Dibromoethane (EDB)	21.0	0.50	ug/L	20		105	70-130			
Dibromomethane	20.4	0.50	ug/L	20		102	70-130			
1,3-Dichlorobenzene	21.0	0.50	ug/L	20		105	70-130			
1,2-Dichlorobenzene	21.7	0.50	ug/L	20		108	70-130			
1,4-Dichlorobenzene	20.6	0.50	ug/L	20		103	70-130			
Dichlorodifluoromethane (R12)	16.8	0.50	ug/L	20		84.2	70-130			
1,1-Dichloroethane	20.4	0.50	ug/L	20		102	70-130			
1,2-Dichloroethane (EDC)	19.6	0.50	ug/L	20		98.0	70-130			
1,1-Dichloroethylene	20.0	0.50	ug/L	20		100	70-130			
trans-1,2-Dichloroethylene	21.6	0.50	ug/L	20		108	70-130			
cis-1,2-Dichloroethylene	21.4	0.50	ug/L	20		107	70-130			
1,2-Dichloropropane	20.8	0.50	ug/L	20		104	70-130			
2,2-Dichloropropane	17.1	0.50	ug/L	20		85.4	70-130			
1,3-Dichloropropane	20.4	0.50	ug/L	20		102	70-130			
cis-1,3-Dichloropropylene	21.0	0.50	ug/L	20		105	70-130			
trans-1,3-Dichloropropylene	20.0	0.50	ug/L	20		100	70-130			
1,1-Dichloropropylene	21.5	0.50	ug/L	20		107	70-130			
Diisopropyl ether (DIPE)	21.0	2.0	ug/L	20		105	70-130			
Ethylbenzene	22.4	0.50	ug/L	20		112	70-130			
Ethyl-tert-Butyl Ether (ETBE)	20.0	2.0	ug/L	20		100	70-130			

Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
VOCs & OXYGENATES by GC/MS - Quality Control										
<i>Batch B7J1059 - EPA 5030B</i>										
Matrix Spike (B7J1059-MS1) Continued Source: 7J04015-12 Prepared & Analyzed: 10/10/17										
Hexachlorobutadiene	20.0	1.0	ug/L	20		100	70-130			
2-Hexanone (MBK)	18.7	10	ug/L	20		93.6	70-130			
Isopropylbenzene	22.1	0.50	ug/L	20		111	70-130			
4-Isopropyltoluene	21.0	1.0	ug/L	20		105	70-130			
Methyl-tert-Butyl Ether (MTBE)	35.8	1.0	ug/L	40		89.6	70-130			
Methylene Chloride	17.2	5.0	ug/L	20		86.0	70-130			
4-Methyl-2-pentanone (MIBK)	19.6	10	ug/L	20		97.8	70-130			
Naphthalene	22.1	2.0	ug/L	20		111	70-130			
n-Propylbenzene	22.4	0.50	ug/L	20		112	70-130			
Styrene	22.9	0.50	ug/L	20		114	70-130			
1,1,1,2-Tetrachloroethane	22.1	0.50	ug/L	20		110	70-130			
1,1,2,2-Tetrachloroethane	19.9	0.50	ug/L	20		99.4	70-130			
Tetrachloroethylene (PCE)	22.4	0.50	ug/L	20		112	70-130			
Toluene	21.1	0.50	ug/L	20		105	70-130			
1,2,3-Trichlorobenzene	22.6	0.50	ug/L	20		113	70-130			
1,2,4-Trichlorobenzene	22.2	0.50	ug/L	20		111	70-130			
1,1,1-Trichloroethane	20.8	0.50	ug/L	20		104	70-130			
1,1,2-Trichloroethane	21.2	0.50	ug/L	20		106	70-130			
Trichloroethylene (TCE)	21.3	0.50	ug/L	20		106	70-130			
Trichlorofluoromethane (R11)	18.5	0.50	ug/L	20		92.7	70-130			
1,2,3-Trichloropropane	19.3	0.50	ug/L	20		96.4	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	18.2	0.50	ug/L	20		91.2	70-130			
1,3,5-Trimethylbenzene	22.0	0.50	ug/L	20		110	70-130			
1,2,4-Trimethylbenzene	21.8	0.50	ug/L	20		109	70-130			
Vinyl chloride	17.3	0.50	ug/L	20		86.3	70-130			
o-Xylene	20.6	0.50	ug/L	20		103	70-130			
m,p-Xylenes	42.3	1.0	ug/L	40		106	70-130			
Surrogate: 4-Bromofluorobenzene	48.1		ug/L	50		96.2	70-140			
Surrogate: Dibromofluoromethane	47.0		ug/L	50		94.0	70-140			
Surrogate: Toluene-d8	49.9		ug/L	50		99.9	70-140			

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1059 - EPA 5030B

Matrix Spike Dup (B7J1059-MSD1) Source: 7J04015-12 Prepared: 10/10/17 Analyzed: 10/11/17

Acetone	22.3	10	ug/L	20	111	70-130	0.493	30	
tert-Amyl Methyl Ether (TAME)	18.4	2.0	ug/L	20	91.8	70-130	3.32	30	
Benzene	20.5	0.50	ug/L	20	102	70-130	3.45	30	
Bromobenzene	21.6	0.50	ug/L	20	108	70-130	0.324	30	
Bromochloromethane	21.6	0.50	ug/L	20	108	70-130	5.33	30	
Bromodichloromethane	20.9	0.50	ug/L	20	104	70-130	1.93	30	
Bromoform	23.4	0.50	ug/L	20	117	70-130	7.72	30	
Bromomethane	18.2	0.50	ug/L	20	90.8	70-130	11.7	30	
2-Butanone (MEK)	20.4	10	ug/L	20	102	70-130	13.0	30	
tert-Butyl alcohol (TBA)	91.5	10	ug/L	100	91.5	70-130	9.55	30	
sec-Butylbenzene	21.6	0.50	ug/L	20	108	70-130	1.01	30	
tert-Butylbenzene	22.2	0.50	ug/L	20	111	70-130	0.0451	30	
n-Butylbenzene	21.1	0.50	ug/L	20	105	70-130	2.72	30	
Carbon Disulfide	18.3	0.50	ug/L	20	91.4	70-130	4.65	30	
Carbon Tetrachloride	20.3	0.50	ug/L	20	102	70-130	3.53	30	
Chlorobenzene	21.6	0.50	ug/L	20	108	70-130	1.02	30	
Chloroethane	17.7	0.50	ug/L	20	88.6	70-130	6.76	30	
Chloroform	20.0	0.50	ug/L	20	99.8	70-130	0.400	30	
Chloromethane	17.0	0.50	ug/L	20	84.8	70-130	2.27	30	
2-Chlorotoluene	21.3	0.50	ug/L	20	106	70-130	0.0470	30	
4-Chlorotoluene	20.6	0.50	ug/L	20	103	70-130	2.21	30	
1,2-Dibromo-3-chloropropane	20.0	1.0	ug/L	20	100	70-130	3.51	30	
Dibromochloromethane	21.9	0.50	ug/L	20	110	70-130	1.38	30	
1,2-Dibromoethane (EDB)	21.6	0.50	ug/L	20	108	70-130	2.77	30	
Dibromomethane	21.4	0.50	ug/L	20	107	70-130	4.93	30	
1,3-Dichlorobenzene	20.8	0.50	ug/L	20	104	70-130	0.765	30	
1,2-Dichlorobenzene	22.5	0.50	ug/L	20	113	70-130	3.89	30	
1,4-Dichlorobenzene	20.5	0.50	ug/L	20	103	70-130	0.195	30	
Dichlorodifluoromethane (R12)	16.7	0.50	ug/L	20	83.4	70-130	0.895	30	
1,1-Dichloroethane	20.3	0.50	ug/L	20	102	70-130	0.344	30	
1,2-Dichloroethane (EDC)	20.2	0.50	ug/L	20	101	70-130	3.02	30	
1,1-Dichloroethylene	18.9	0.50	ug/L	20	94.6	70-130	5.75	30	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1059 - EPA 5030B

Matrix Spike Dup (B7J1059-MSD1) Source: 7J04015-12 Prepared: 10/10/17 Analyzed: 10/11/17

Continued

trans-1,2-Dichloroethylene	21.1	0.50	ug/L	20	105	70-130	2.30	30	
cis-1,2-Dichloroethylene	20.7	0.50	ug/L	20	104	70-130	2.90	30	
1,2-Dichloropropane	20.8	0.50	ug/L	20	104	70-130	0.0481	30	
2,2-Dichloropropane	16.4	0.50	ug/L	20	82.0	70-130	4.12	30	
1,3-Dichloropropane	21.5	0.50	ug/L	20	108	70-130	5.15	30	
cis-1,3-Dichloropropylene	21.2	0.50	ug/L	20	106	70-130	0.807	30	
trans-1,3-Dichloropropylene	19.8	0.50	ug/L	20	99.2	70-130	0.953	30	
1,1-Dichloropropylene	20.9	0.50	ug/L	20	104	70-130	2.98	30	
Diisopropyl ether (DIPE)	21.4	2.0	ug/L	20	107	70-130	1.93	30	
Ethylbenzene	21.8	0.50	ug/L	20	109	70-130	2.67	30	
Ethyl-tert-Butyl Ether (ETBE)	20.7	2.0	ug/L	20	104	70-130	3.24	30	
Hexachlorobutadiene	21.1	1.0	ug/L	20	105	70-130	4.96	30	
2-Hexanone (MBK)	19.2	10	ug/L	20	95.8	70-130	2.27	30	
Isopropylbenzene	22.2	0.50	ug/L	20	111	70-130	0.451	30	
4-Isopropyltoluene	20.7	1.0	ug/L	20	104	70-130	1.34	30	
Methyl-tert-Butyl Ether (MTBE)	38.9	1.0	ug/L	40	97.2	70-130	8.19	30	
Methylene Chloride	17.0	5.0	ug/L	20	85.0	70-130	1.29	30	
4-Methyl-2-pentanone (MIBK)	20.1	10	ug/L	20	100	70-130	2.67	30	
Naphthalene	24.6	2.0	ug/L	20	123	70-130	10.6	30	
n-Propylbenzene	21.8	0.50	ug/L	20	109	70-130	2.81	30	
Styrene	22.2	0.50	ug/L	20	111	70-130	2.84	30	
1,1,1,2-Tetrachloroethane	21.9	0.50	ug/L	20	109	70-130	0.911	30	
1,1,2,2-Tetrachloroethane	22.1	0.50	ug/L	20	111	70-130	10.7	30	
Tetrachloroethylene (PCE)	21.3	0.50	ug/L	20	106	70-130	4.95	30	
Toluene	20.6	0.50	ug/L	20	103	70-130	2.40	30	
1,2,3-Trichlorobenzene	24.6	0.50	ug/L	20	123	70-130	8.23	30	
1,2,4-Trichlorobenzene	23.1	0.50	ug/L	20	115	70-130	3.84	30	
1,1,1-Trichloroethane	19.9	0.50	ug/L	20	99.6	70-130	4.61	30	
1,1,2-Trichloroethane	22.1	0.50	ug/L	20	110	70-130	3.83	30	
Trichloroethylene (TCE)	20.4	0.50	ug/L	20	102	70-130	4.18	30	
Trichlorofluoromethane (R11)	18.4	0.50	ug/L	20	92.2	70-130	0.541	30	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1059 - EPA 5030B

Matrix Spike Dup (B7J1059-MSD1) Source: 7J04015-12 Prepared: 10/10/17 Analyzed: 10/11/17

Continued

1,2,3-Trichloropropane	21.9	0.50	ug/L	20	110	70-130	12.8	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	17.7	0.50	ug/L	20	88.6	70-130	2.95	30	
1,3,5-Trimethylbenzene	21.5	0.50	ug/L	20	108	70-130	2.07	30	
1,2,4-Trimethylbenzene	21.5	0.50	ug/L	20	108	70-130	1.06	30	
Vinyl chloride	16.7	0.50	ug/L	20	83.6	70-130	3.18	30	
o-Xylene	20.8	0.50	ug/L	20	104	70-130	0.821	30	
m,p-Xylenes	41.2	1.0	ug/L	40	103	70-130	2.71	30	
Surrogate: 4-Bromofluorobenzene	49.8		ug/L	50	99.7	70-140			
Surrogate: Dibromofluoromethane	47.7		ug/L	50	95.4	70-140			
Surrogate: Toluene-d8	49.9		ug/L	50	99.8	70-140			

Batch B7J1144 - EPA 5030B

Blank (B7J1144-BLK1)

Prepared & Analyzed: 10/11/17

Acetone	<10	10	ug/L						
tert-Amyl Methyl Ether (TAME)	<2.0	2.0	ug/L						
Benzene	<0.50	0.50	ug/L						
Bromobenzene	<0.50	0.50	ug/L						
Bromochloromethane	<0.50	0.50	ug/L						
Bromodichloromethane	<0.50	0.50	ug/L						
Bromoform	<0.50	0.50	ug/L						
Bromomethane	<0.50	0.50	ug/L						
2-Butanone (MEK)	<10	10	ug/L						
tert-Butyl alcohol (TBA)	<10	10	ug/L						
sec-Butylbenzene	<0.50	0.50	ug/L						
tert-Butylbenzene	<0.50	0.50	ug/L						
n-Butylbenzene	<0.50	0.50	ug/L						
Carbon Disulfide	<0.50	0.50	ug/L						
Carbon Tetrachloride	<0.50	0.50	ug/L						
Chlorobenzene	<0.50	0.50	ug/L						
Chloroethane	<0.50	0.50	ug/L						

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1144 - EPA 5030B

Blank (B7J1144-BLK1) Continued

Prepared & Analyzed: 10/11/17

Chloroform	<0.50	0.50	ug/L							
Chloromethane	<0.50	0.50	ug/L							
2-Chlorotoluene	<0.50	0.50	ug/L							
4-Chlorotoluene	<0.50	0.50	ug/L							
1,2-Dibromo-3-chloropropane	<1.0	1.0	ug/L							
Dibromochloromethane	<0.50	0.50	ug/L							
1,2-Dibromoethane (EDB)	<0.50	0.50	ug/L							
Dibromomethane	<0.50	0.50	ug/L							
1,3-Dichlorobenzene	<0.50	0.50	ug/L							
1,2-Dichlorobenzene	<0.50	0.50	ug/L							
1,4-Dichlorobenzene	<0.50	0.50	ug/L							
Dichlorodifluoromethane (R12)	<0.50	0.50	ug/L							
1,1-Dichloroethane	<0.50	0.50	ug/L							
1,2-Dichloroethane (EDC)	<0.50	0.50	ug/L							
1,1-Dichloroethylene	<0.50	0.50	ug/L							
trans-1,2-Dichloroethylene	<0.50	0.50	ug/L							
cis-1,2-Dichloroethylene	<0.50	0.50	ug/L							
1,2-Dichloropropane	<0.50	0.50	ug/L							
2,2-Dichloropropane	<0.50	0.50	ug/L							
1,3-Dichloropropane	<0.50	0.50	ug/L							
cis-1,3-Dichloropropylene	<0.50	0.50	ug/L							
trans-1,3-Dichloropropylene	<0.50	0.50	ug/L							
1,1-Dichloropropylene	<0.50	0.50	ug/L							
Diisopropyl ether (DIPE)	<2.0	2.0	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Ethyl-tert-Butyl Ether (ETBE)	<2.0	2.0	ug/L							
Hexachlorobutadiene	<1.0	1.0	ug/L							
2-Hexanone (MBK)	<10	10	ug/L							
Isopropylbenzene	<0.50	0.50	ug/L							
4-Isopropyltoluene	<1.0	1.0	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L							

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1144 - EPA 5030B

Blank (B7J1144-BLK1) Continued

Prepared & Analyzed: 10/11/17

Methylene Chloride	<5.0	5.0	ug/L
4-Methyl-2-pentanone (MIBK)	<10	10	ug/L
Naphthalene	<2.0	2.0	ug/L
n-Propylbenzene	<0.50	0.50	ug/L
Styrene	<0.50	0.50	ug/L
1,1,1,2-Tetrachloroethane	<0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	<0.50	0.50	ug/L
Tetrachloroethylene (PCE)	<0.50	0.50	ug/L
Toluene	<0.50	0.50	ug/L
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L
1,2,4-Trichlorobenzene	<0.50	0.50	ug/L
1,1,1-Trichloroethane	<0.50	0.50	ug/L
1,1,2-Trichloroethane	<0.50	0.50	ug/L
Trichloroethylene (TCE)	<0.50	0.50	ug/L
Trichlorofluoromethane (R11)	<0.50	0.50	ug/L
1,2,3-Trichloropropane	<0.50	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	0.50	ug/L
1,3,5-Trimethylbenzene	<0.50	0.50	ug/L
1,2,4-Trimethylbenzene	<0.50	0.50	ug/L
Vinyl chloride	<0.50	0.50	ug/L
o-Xylene	<0.50	0.50	ug/L
m,p-Xylenes	<1.0	1.0	ug/L

Surrogate: 4-Bromofluorobenzene	48.1		ug/L	50		96.2	70-140
Surrogate: Dibromofluoromethane	56.1		ug/L	50		112	70-140
Surrogate: Toluene-d8	48.7		ug/L	50		97.3	70-140

LCS (B7J1144-BS1)

Prepared & Analyzed: 10/11/17

Acetone	22.9	10	ug/L	20		114	70-130
tert-Amyl Methyl Ether (TAME)	18.2	2.0	ug/L	20		91.2	70-130
Benzene	21.3	0.50	ug/L	20		106	75-125
Bromobenzene	22.6	0.50	ug/L	20		113	70-130

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1144 - EPA 5030B

LCS (B7J1144-BS1) Continued

Prepared & Analyzed: 10/11/17

Bromochloromethane	19.8	0.50	ug/L	20		98.9	70-130			
Bromodichloromethane	20.2	0.50	ug/L	20		101	75-125			
Bromoform	21.2	0.50	ug/L	20		106	75-125			
Bromomethane	20.6	0.50	ug/L	20		103	75-125			
2-Butanone (MEK)	21.4	10	ug/L	20		107	70-130			
tert-Butyl alcohol (TBA)	83.5	10	ug/L	100		83.5	70-130			
sec-Butylbenzene	23.2	0.50	ug/L	20		116	70-130			
tert-Butylbenzene	23.6	0.50	ug/L	20		118	70-130			
n-Butylbenzene	23.6	0.50	ug/L	20		118	70-130			
Carbon Disulfide	20.4	0.50	ug/L	20		102	70-130			
Carbon Tetrachloride	21.2	0.50	ug/L	20		106	75-125			
Chlorobenzene	22.6	0.50	ug/L	20		113	75-125			
Chloroethane	19.3	0.50	ug/L	20		96.7	75-125			
Chloroform	20.0	0.50	ug/L	20		100	75-125			
Chloromethane	18.7	0.50	ug/L	20		93.6	65-125			
2-Chlorotoluene	22.8	0.50	ug/L	20		114	70-130			
4-Chlorotoluene	22.2	0.50	ug/L	20		111	70-130			
1,2-Dibromo-3-chloropropane	19.3	1.0	ug/L	20		96.4	70-130			
Dibromochloromethane	20.9	0.50	ug/L	20		104	75-125			
1,2-Dibromoethane (EDB)	20.2	0.50	ug/L	20		101	70-130			
Dibromomethane	20.3	0.50	ug/L	20		102	70-130			
1,3-Dichlorobenzene	21.9	0.50	ug/L	20		110	70-130			
1,2-Dichlorobenzene	23.0	0.50	ug/L	20		115	70-130			
1,4-Dichlorobenzene	21.8	0.50	ug/L	20		109	75-125			
Dichlorodifluoromethane (R12)	18.8	0.50	ug/L	20		93.8	70-130			
1,1-Dichloroethane	20.7	0.50	ug/L	20		103	70-125			
1,2-Dichloroethane (EDC)	19.4	0.50	ug/L	20		97.0	75-125			
1,1-Dichloroethylene	20.5	0.50	ug/L	20		103	70-130			
trans-1,2-Dichloroethylene	21.9	0.50	ug/L	20		110	75-125			
cis-1,2-Dichloroethylene	21.5	0.50	ug/L	20		107	75-125			
1,2-Dichloropropane	21.0	0.50	ug/L	20		105	75-130			

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
VOCs & OXYGENATES by GC/MS - Quality Control										
<i>Batch B7J1144 - EPA 5030B</i>										
LCS (B7J1144-BS1) Continued					Prepared & Analyzed: 10/11/17					
2,2-Dichloropropane	21.1	0.50	ug/L	20	105	70-130				
1,3-Dichloropropane	20.3	0.50	ug/L	20	102	70-130				
cis-1,3-Dichloropropylene	21.6	0.50	ug/L	20	108	75-125				
trans-1,3-Dichloropropylene	20.8	0.50	ug/L	20	104	70-130				
1,1-Dichloropropylene	22.4	0.50	ug/L	20	112	70-130				
Diisopropyl ether (DIPE)	20.4	2.0	ug/L	20	102	70-130				
Ethylbenzene	23.2	0.50	ug/L	20	116	75-125				
Ethyl-tert-Butyl Ether (ETBE)	19.7	2.0	ug/L	20	98.4	70-130				
Hexachlorobutadiene	23.7	1.0	ug/L	20	119	70-130				
2-Hexanone (MBK)	18.6	10	ug/L	20	93.2	70-130				
Isopropylbenzene	23.9	0.50	ug/L	20	120	70-130				
4-Isopropyltoluene	22.2	1.0	ug/L	20	111	70-130				
Methyl-tert-Butyl Ether (MTBE)	35.8	1.0	ug/L	40	89.4	75-125				
Methylene Chloride	17.5	5.0	ug/L	20	87.6	75-130				
4-Methyl-2-pentanone (MIBK)	19.0	10	ug/L	20	95.1	70-130				
Naphthalene	23.6	2.0	ug/L	20	118	70-130				
n-Propylbenzene	23.7	0.50	ug/L	20	118	70-130				
Styrene	23.4	0.50	ug/L	20	117	70-130				
1,1,1,2-Tetrachloroethane	21.8	0.50	ug/L	20	109	70-130				
1,1,2,2-Tetrachloroethane	19.9	0.50	ug/L	20	99.4	70-135				
Tetrachloroethylene (PCE)	23.7	0.50	ug/L	20	118	75-125				
Toluene	21.5	0.50	ug/L	20	108	75-125				
1,2,3-Trichlorobenzene	24.0	0.50	ug/L	20	120	70-130				
1,2,4-Trichlorobenzene	24.1	0.50	ug/L	20	121	70-130				
1,1,1-Trichloroethane	21.2	0.50	ug/L	20	106	75-125				
1,1,2-Trichloroethane	20.2	0.50	ug/L	20	101	75-125				
Trichloroethylene (TCE)	21.8	0.50	ug/L	20	109	75-125				
Trichlorofluoromethane (R11)	19.6	0.50	ug/L	20	97.9	70-130				
1,2,3-Trichloropropane	18.2	0.50	ug/L	20	90.8	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	19.0	0.50	ug/L	20	95.0	70-130				
1,3,5-Trimethylbenzene	23.0	0.50	ug/L	20	115	70-130				

Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1144 - EPA 5030B

LCS (B7J1144-BS1) Continued

Prepared & Analyzed: 10/11/17

1,2,4-Trimethylbenzene	22.9	0.50	ug/L	20	114	70-130
Vinyl chloride	18.5	0.50	ug/L	20	92.3	75-125
o-Xylene	21.4	0.50	ug/L	20	107	75-125
m,p-Xylenes	43.5	1.0	ug/L	40	109	70-130

Surrogate: 4-Bromofluorobenzene 49.0 ug/L 50 97.9 70-140

Surrogate: Dibromofluoromethane 46.5 ug/L 50 93.1 70-140

Surrogate: Toluene-d8 49.6 ug/L 50 99.2 70-140

Matrix Spike (B7J1144-MS1)

Source: 7J05019-12 Prepared & Analyzed: 10/11/17

Acetone	35.8	10	ug/L	20	13.5	111	70-130
tert-Amyl Methyl Ether (TAME)	19.0	2.0	ug/L	20	<2.0	94.8	70-130
Benzene	21.6	0.50	ug/L	20	<0.50	108	70-130
Bromobenzene	23.7	0.50	ug/L	20	<0.50	118	70-130
Bromochloromethane	21.8	0.50	ug/L	20	<0.50	109	70-130
Bromodichloromethane	20.9	0.50	ug/L	20	<0.50	104	70-130
Bromoform	22.0	0.50	ug/L	20	<0.50	110	70-130
Bromomethane	16.2	0.50	ug/L	20	<0.50	81.0	70-130
2-Butanone (MEK)	24.0	10	ug/L	20	<10	120	70-130
tert-Butyl alcohol (TBA)	94.5	10	ug/L	100	<10	94.5	70-130
sec-Butylbenzene	22.8	0.50	ug/L	20	<0.50	114	70-130
tert-Butylbenzene	23.6	0.50	ug/L	20	0.480	116	70-130
n-Butylbenzene	22.8	0.50	ug/L	20	<0.50	114	70-130
Carbon Disulfide	19.5	0.50	ug/L	20	<0.50	97.4	70-130
Carbon Tetrachloride	20.8	0.50	ug/L	20	<0.50	104	70-130
Chlorobenzene	21.8	0.50	ug/L	20	<0.50	109	70-130
Chloroethane	18.2	0.50	ug/L	20	<0.50	91.2	70-130
Chloroform	20.3	0.50	ug/L	20	<0.50	101	70-130
Chloromethane	17.8	0.50	ug/L	20	<0.50	88.8	70-130
2-Chlorotoluene	23.1	0.50	ug/L	20	<0.50	116	70-130
4-Chlorotoluene	22.3	0.50	ug/L	20	<0.50	112	70-130
1,2-Dibromo-3-chloropropane	21.5	1.0	ug/L	20	<1.0	107	70-130
Dibromochloromethane	21.4	0.50	ug/L	20	<0.50	107	70-130

Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1144 - EPA 5030B

Matrix Spike (B7J1144-MS1) Continued Source: 7J05019-12 Prepared & Analyzed: 10/11/17

1,2-Dibromoethane (EDB)	21.4	0.50	ug/L	20	<0.50	107	70-130			
Dibromomethane	21.4	0.50	ug/L	20	<0.50	107	70-130			
1,3-Dichlorobenzene	22.3	0.50	ug/L	20	<0.50	111	70-130			
1,2-Dichlorobenzene	23.7	0.50	ug/L	20	<0.50	118	70-130			
1,4-Dichlorobenzene	22.0	0.50	ug/L	20	<0.50	110	70-130			
Dichlorodifluoromethane (R12)	16.3	0.50	ug/L	20	<0.50	81.3	70-130			
1,1-Dichloroethane	20.5	0.50	ug/L	20	<0.50	103	70-130			
1,2-Dichloroethane (EDC)	19.9	0.50	ug/L	20	<0.50	99.4	70-130			
1,1-Dichloroethylene	19.7	0.50	ug/L	20	<0.50	98.6	70-130			
trans-1,2-Dichloroethylene	22.1	0.50	ug/L	20	<0.50	110	70-130			
cis-1,2-Dichloroethylene	21.6	0.50	ug/L	20	<0.50	108	70-130			
1,2-Dichloropropane	21.4	0.50	ug/L	20	<0.50	107	70-130			
2,2-Dichloropropane	18.9	0.50	ug/L	20	<0.50	94.4	70-130			
1,3-Dichloropropane	20.9	0.50	ug/L	20	<0.50	104	70-130			
cis-1,3-Dichloropropylene	21.6	0.50	ug/L	20	<0.50	108	70-130			
trans-1,3-Dichloropropylene	20.5	0.50	ug/L	20	<0.50	103	70-130			
1,1-Dichloropropylene	22.2	0.50	ug/L	20	<0.50	111	70-130			
Diisopropyl ether (DIPE)	21.4	2.0	ug/L	20	<2.0	107	70-130			
Ethylbenzene	22.2	0.50	ug/L	20	<0.50	111	70-130			
Ethyl-tert-Butyl Ether (ETBE)	20.7	2.0	ug/L	20	<2.0	103	70-130			
Hexachlorobutadiene	21.6	1.0	ug/L	20	<1.0	108	70-130			
2-Hexanone (MBK)	18.1	10	ug/L	20	<10	90.4	70-130			
Isopropylbenzene	23.8	0.50	ug/L	20	<0.50	119	70-130			
4-Isopropyltoluene	22.1	1.0	ug/L	20	<1.0	110	70-130			
Methyl-tert-Butyl Ether (MTBE)	42.0	1.0	ug/L	40	3.13	97.2	70-130			
Methylene Chloride	16.9	5.0	ug/L	20	<5.0	84.6	70-130			
4-Methyl-2-pentanone (MIBK)	20.9	10	ug/L	20	<10	104	70-130			
Naphthalene	23.4	2.0	ug/L	20	<2.0	117	70-130			
n-Propylbenzene	23.8	0.50	ug/L	20	<0.50	119	70-130			
Styrene	22.4	0.50	ug/L	20	<0.50	112	70-130			
1,1,1,2-Tetrachloroethane	21.6	0.50	ug/L	20	<0.50	108	70-130			

Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1144 - EPA 5030B

Matrix Spike (B7J1144-MS1) Continued Source: 7J05019-12 Prepared & Analyzed: 10/11/17

1,1,2,2-Tetrachloroethane	21.0	0.50	ug/L	20	<0.50	105	70-130			
Tetrachloroethylene (PCE)	22.7	0.50	ug/L	20	<0.50	113	70-130			
Toluene	21.4	0.50	ug/L	20	<0.50	107	70-130			
1,2,3-Trichlorobenzene	23.9	0.50	ug/L	20	<0.50	120	70-130			
1,2,4-Trichlorobenzene	23.4	0.50	ug/L	20	<0.50	117	70-130			
1,1,1-Trichloroethane	20.5	0.50	ug/L	20	<0.50	103	70-130			
1,1,2-Trichloroethane	22.2	0.50	ug/L	20	<0.50	111	70-130			
Trichloroethylene (TCE)	21.6	0.50	ug/L	20	<0.50	108	70-130			
Trichlorofluoromethane (R11)	18.1	0.50	ug/L	20	<0.50	90.6	70-130			
1,2,3-Trichloropropane	20.6	0.50	ug/L	20	<0.50	103	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	18.6	0.50	ug/L	20	<0.50	93.0	70-130			
1,3,5-Trimethylbenzene	23.1	0.50	ug/L	20	<0.50	116	70-130			
1,2,4-Trimethylbenzene	23.1	0.50	ug/L	20	<0.50	116	70-130			
Vinyl chloride	16.9	0.50	ug/L	20	<0.50	84.4	70-130			
o-Xylene	20.7	0.50	ug/L	20	<0.50	104	70-130			
m,p-Xylenes	42.5	1.0	ug/L	40	<1.0	106	70-130			
Surrogate: 4-Bromofluorobenzene	48.2		ug/L	50		96.3	70-140			
Surrogate: Dibromofluoromethane	45.6		ug/L	50		91.2	70-140			
Surrogate: Toluene-d8	46.9		ug/L	50		93.9	70-140			

Matrix Spike Dup (B7J1144-MSD1) Source: 7J05019-12 Prepared & Analyzed: 10/11/17

Acetone	33.4	10	ug/L	20	13.5	99.4	70-130	6.83	30	
tert-Amyl Methyl Ether (TAME)	17.8	2.0	ug/L	20	<2.0	88.8	70-130	6.59	30	
Benzene	21.3	0.50	ug/L	20	<0.50	107	70-130	1.44	30	
Bromobenzene	23.4	0.50	ug/L	20	<0.50	117	70-130	1.32	30	
Bromochloromethane	20.8	0.50	ug/L	20	<0.50	104	70-130	4.46	30	
Bromodichloromethane	20.2	0.50	ug/L	20	<0.50	101	70-130	3.26	30	
Bromoform	21.3	0.50	ug/L	20	<0.50	106	70-130	3.19	30	
Bromomethane	18.0	0.50	ug/L	20	<0.50	89.8	70-130	10.4	30	
2-Butanone (MEK)	22.7	10	ug/L	20	<10	113	70-130	5.53	30	
tert-Butyl alcohol (TBA)	91.7	10	ug/L	100	<10	91.7	70-130	2.94	30	

Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
VOCs & OXYGENATES by GC/MS - Quality Control										
<i>Batch B7J1144 - EPA 5030B</i>										
Matrix Spike Dup (B7J1144-MSD1) Source: 7J05019-12 Prepared & Analyzed: 10/11/17										
Continued										
sec-Butylbenzene	23.1	0.50	ug/L	20	<0.50	116	70-130	1.35	30	
tert-Butylbenzene	23.6	0.50	ug/L	20	0.480	116	70-130	0.127	30	
n-Butylbenzene	22.9	0.50	ug/L	20	<0.50	115	70-130	0.700	30	
Carbon Disulfide	20.1	0.50	ug/L	20	<0.50	101	70-130	3.18	30	
Carbon Tetrachloride	20.9	0.50	ug/L	20	<0.50	104	70-130	0.336	30	
Chlorobenzene	21.6	0.50	ug/L	20	<0.50	108	70-130	0.645	30	
Chloroethane	19.7	0.50	ug/L	20	<0.50	98.6	70-130	7.69	30	
Chloroform	20.2	0.50	ug/L	20	<0.50	101	70-130	0.396	30	
Chloromethane	17.6	0.50	ug/L	20	<0.50	88.2	70-130	0.678	30	
2-Chlorotoluene	22.6	0.50	ug/L	20	<0.50	113	70-130	2.14	30	
4-Chlorotoluene	22.2	0.50	ug/L	20	<0.50	111	70-130	0.494	30	
1,2-Dibromo-3-chloropropane	19.9	1.0	ug/L	20	<1.0	99.5	70-130	7.68	30	
Dibromochloromethane	20.9	0.50	ug/L	20	<0.50	104	70-130	2.51	30	
1,2-Dibromoethane (EDB)	20.9	0.50	ug/L	20	<0.50	104	70-130	2.41	30	
Dibromomethane	20.6	0.50	ug/L	20	<0.50	103	70-130	3.82	30	
1,3-Dichlorobenzene	22.3	0.50	ug/L	20	<0.50	112	70-130	0.224	30	
1,2-Dichlorobenzene	23.7	0.50	ug/L	20	<0.50	119	70-130	0.169	30	
1,4-Dichlorobenzene	22.1	0.50	ug/L	20	<0.50	110	70-130	0.454	30	
Dichlorodifluoromethane (R12)	16.8	0.50	ug/L	20	<0.50	83.8	70-130	3.03	30	
1,1-Dichloroethane	20.6	0.50	ug/L	20	<0.50	103	70-130	0.438	30	
1,2-Dichloroethane (EDC)	19.1	0.50	ug/L	20	<0.50	95.4	70-130	4.05	30	
1,1-Dichloroethylene	20.2	0.50	ug/L	20	<0.50	101	70-130	2.31	30	
trans-1,2-Dichloroethylene	21.2	0.50	ug/L	20	<0.50	106	70-130	4.16	30	
cis-1,2-Dichloroethylene	21.7	0.50	ug/L	20	<0.50	109	70-130	0.415	30	
1,2-Dichloropropane	20.6	0.50	ug/L	20	<0.50	103	70-130	3.62	30	
2,2-Dichloropropane	18.8	0.50	ug/L	20	<0.50	94.2	70-130	0.265	30	
1,3-Dichloropropane	20.3	0.50	ug/L	20	<0.50	102	70-130	2.82	30	
cis-1,3-Dichloropropylene	21.2	0.50	ug/L	20	<0.50	106	70-130	2.10	30	
trans-1,3-Dichloropropylene	19.6	0.50	ug/L	20	<0.50	98.2	70-130	4.28	30	
1,1-Dichloropropylene	22.1	0.50	ug/L	20	<0.50	111	70-130	0.496	30	
Diisopropyl ether (DIPE)	21.0	2.0	ug/L	20	<2.0	105	70-130	1.93	30	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1144 - EPA 5030B

Matrix Spike Dup (B7J1144-MSD1) Source: 7J05019-12 Prepared & Analyzed: 10/11/17

Continued

Ethylbenzene	22.0	0.50	ug/L	20	<0.50	110	70-130	0.498	30	
Ethyl-tert-Butyl Ether (ETBE)	19.7	2.0	ug/L	20	<2.0	98.6	70-130	4.80	30	
Hexachlorobutadiene	22.8	1.0	ug/L	20	<1.0	114	70-130	5.32	30	
2-Hexanone (MBK)	17.5	10	ug/L	20	<10	87.6	70-130	3.15	30	
Isopropylbenzene	23.7	0.50	ug/L	20	<0.50	119	70-130	0.337	30	
4-Isopropyltoluene	22.3	1.0	ug/L	20	<1.0	112	70-130	1.04	30	
Methyl-tert-Butyl Ether (MTBE)	40.8	1.0	ug/L	40	3.13	94.1	70-130	2.95	30	
Methylene Chloride	18.1	5.0	ug/L	20	<5.0	90.6	70-130	6.85	30	
4-Methyl-2-pentanone (MIBK)	18.8	10	ug/L	20	<10	93.8	70-130	10.7	30	
Naphthalene	25.8	2.0	ug/L	20	<2.0	129	70-130	9.62	30	
n-Propylbenzene	23.5	0.50	ug/L	20	<0.50	117	70-130	1.35	30	
Styrene	22.0	0.50	ug/L	20	<0.50	110	70-130	1.76	30	
1,1,1,2-Tetrachloroethane	21.3	0.50	ug/L	20	<0.50	107	70-130	1.26	30	
1,1,2,2-Tetrachloroethane	20.0	0.50	ug/L	20	<0.50	100	70-130	5.02	30	
Tetrachloroethylene (PCE)	22.7	0.50	ug/L	20	<0.50	113	70-130	0.00	30	
Toluene	21.2	0.50	ug/L	20	<0.50	106	70-130	1.31	30	
1,2,3-Trichlorobenzene	25.5	0.50	ug/L	20	<0.50	128	70-130	6.63	30	
1,2,4-Trichlorobenzene	24.7	0.50	ug/L	20	<0.50	124	70-130	5.49	30	
1,1,1-Trichloroethane	20.8	0.50	ug/L	20	<0.50	104	70-130	1.16	30	
1,1,2-Trichloroethane	20.7	0.50	ug/L	20	<0.50	103	70-130	7.27	30	
Trichloroethylene (TCE)	22.0	0.50	ug/L	20	<0.50	110	70-130	1.98	30	
Trichlorofluoromethane (R11)	18.6	0.50	ug/L	20	<0.50	92.8	70-130	2.40	30	
1,2,3-Trichloropropane	19.4	0.50	ug/L	20	<0.50	96.9	70-130	5.91	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	17.4	0.50	ug/L	20	<0.50	86.8	70-130	6.84	30	
1,3,5-Trimethylbenzene	23.0	0.50	ug/L	20	<0.50	115	70-130	0.738	30	
1,2,4-Trimethylbenzene	22.8	0.50	ug/L	20	<0.50	114	70-130	1.22	30	
Vinyl chloride	17.3	0.50	ug/L	20	<0.50	86.6	70-130	2.69	30	
o-Xylene	20.6	0.50	ug/L	20	<0.50	103	70-130	0.774	30	
m,p-Xylenes	42.3	1.0	ug/L	40	<1.0	106	70-130	0.354	30	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1144 - EPA 5030B

Matrix Spike Dup (B7J1144-MSD1) Source: 7J05019-12 Prepared & Analyzed: 10/11/17
Continued

Surrogate: 4-Bromofluorobenzene	47.7		ug/L	50		95.5	70-140			
Surrogate: Dibromofluoromethane	45.9		ug/L	50		91.9	70-140			
Surrogate: Toluene-d8	46.8		ug/L	50		93.6	70-140			

Diesel Range Organics by GC/FID - Quality Control

Batch B7J0606 - EPA 3510C

Blank (B7J0606-BLK1) Prepared & Analyzed: 10/06/17

Diesel Range Organics as Diesel	<0.10	0.10	mg/L							
Surrogate: o-Terphenyl	0.0541		mg/L	0.040		135	50-150			

LCS (B7J0606-BS1) Prepared & Analyzed: 10/06/17

Diesel Range Organics as Diesel	0.847	0.10	mg/L	0.80		106	75-125			
Surrogate: o-Terphenyl	0.0550		mg/L	0.040		138	50-150			

LCS Dup (B7J0606-BSD1) Prepared & Analyzed: 10/06/17

Diesel Range Organics as Diesel	0.633	0.10	mg/L	0.80		79.2	75-125	28.9	30	
Surrogate: o-Terphenyl	0.0464		mg/L	0.040		116	50-150			

Gasoline Range Organics by GC/FID - Quality Control

Batch B7J1061 - EPA 5030B

Blank (B7J1061-BLK1) Prepared & Analyzed: 10/10/17

Gasoline Range Organics (GRO)	<100	100	ug/L							
Surrogate: a,a,a-Trifluorotoluene	45.7		ug/L	50		91.5	80-120			

LCS (B7J1061-BS1) Prepared & Analyzed: 10/10/17

Gasoline Range Organics (GRO)	415	100	ug/L	500		83.1	75-125			
Surrogate: a,a,a-Trifluorotoluene	48.7		ug/L	50		97.4	80-120			

LCS Dup (B7J1061-BSD1) Prepared & Analyzed: 10/10/17

Gasoline Range Organics (GRO)	436	100	ug/L	500		87.2	75-125	4.77	30	
Surrogate: a,a,a-Trifluorotoluene	46.0		ug/L	50		92.0	80-120			

Matrix Spike (B7J1061-MS1) Source: 7J04015-17 Prepared & Analyzed: 10/10/17

Gasoline Range Organics (GRO)	407	100	ug/L	500		81.4	70-130			
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Gasoline Range Organics by GC/FID - Quality Control										
<i>Batch B7J1061 - EPA 5030B</i>										
Matrix Spike (B7J1061-MS1) Continued Source: 7J04015-17 Prepared & Analyzed: 10/10/17										
<i>Surrogate: a,a,a-Trifluorotoluene</i>	47.2		ug/L	50		94.3	80-120			
Matrix Spike Dup (B7J1061-MSD1) Source: 7J04015-17 Prepared & Analyzed: 10/10/17										
Gasoline Range Organics (GRO)	407	100	ug/L	500		81.4	70-130	0.0787	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	46.0		ug/L	50		92.1	80-120			
<i>Batch B7J1143 - EPA 5030B</i>										
Blank (B7J1143-BLK1) Prepared & Analyzed: 10/11/17										
Gasoline Range Organics (GRO)	<100	100	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	46.4		ug/L	50		92.9	80-120			
LCS (B7J1143-BS1) Prepared & Analyzed: 10/11/17										
Gasoline Range Organics (GRO)	449	100	ug/L	500		89.7	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	54.6		ug/L	50		109	80-120			
LCS Dup (B7J1143-BSD1) Prepared & Analyzed: 10/11/17										
Gasoline Range Organics (GRO)	419	100	ug/L	500		83.8	75-125	6.83	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	52.2		ug/L	50		104	80-120			

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332321
Date Received: 10/05/17
Date Reported: 10/18/17

Special Notes

Viorel Vasile
Operations Manager



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

Tel: 818-998-5547 FAX: 818-998-7258

A.A. COG No.: 3798

70049780

Page 1 of 1

Client: <u>APEX-S&I</u>	Project Name / No.: <u>DFSP Norwalk</u>	Sampler's Name: <u>DAVID Lobben</u>
Project Manager: <u>ZARSWENSSON</u>	Site Address: <u>15603 Norwalk</u>	Sampler's Signature: <u>[Signature]</u>
Phone: <u>1-562-597-1015</u>	City: <u>Norwalk</u>	P.O. No.: <u>—</u>
Fax: <u>1-562-597-1070</u>	State & Zip: <u>Ca</u>	Quote No.: <u>—</u>

TAT Turnaround Codes **

- ① = Same Day Rush
- ② = 24 Hour Rush
- ③ = 48 Hour Rush
- ④ = 72 Hour Rush
- ⑤ = 5 Day Rush
- X = 10 Working Days (Standard TAT)

ANALYSIS REQUESTED (Test Name)

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	Please enter the TAT Turnaround Codes ** below										Special Instructions			
						①	②	③	④	⑤	X								
QCTB-1	TJOS019-01	10-4-17	600	GW	2		X												
QCEB-1	02	10-4-17	800	GW	2		X												
MW-16	05	10-4-17	845	GW	7	X	X	X											
GMW-47	04	10-4-17	915	GW	7	X	X	X											
GMW-57	05	10-4-17	950	GW	7	X	X	X											
GMW-66R	06	10-4-17	1030	GW	7	X	X	X											
EXP-1	07	10-4-17	1130	GW	7	X	X	X											
DUP-3	08	10-4-17	xxxx	GW	7	X	X	X											
EXP-3	09	10-4-17	1210	GW	7	X	X	X											
GMW-12	10	10-4-17	100p	GW	7	X	X	X											
MW-29	11	10-4-17	135p	GW	7	X	X	X											
MW-27	12	10-4-17	210p	GW	7	X	X	X											
MW-26	13	10-4-17	245p	GW	7	X	X	X											
DUP-4	14	10-4-17	xxxx	GW	7	X	X	X											

SAMPLE INTEGRITY
INTACT (Y/N) TEMP (C/F)

<p>For Laboratory Use</p> <p>REVIEWED</p> <p>Date <u>10/5/17</u> Time <u>1300</u></p> <p>TAT <u>N</u> Days Sign: <u>[Signature]</u></p> <p>A.A. Project No.: <u>AS332321/7JOS019</u></p>	Relinquished by <u>[Signature]</u>	Date <u>10-5-17</u>	Time <u>8:30</u>	Received by <u>[Signature]</u>
	Relinquished by <u>[Signature]</u>	Date <u>10/5/17</u>	Time <u>1013</u>	Received by <u>[Signature]</u>
	Relinquished by	Date	Time	Received by

Note: By relinquishing samples to American Analytics, client agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analytics.



9765 Eton Avenue
Chatsworth
California 91311
Tel: (818) 998-5547
Fax: (818) 998-7258

October 18, 2017

Neil Irish

The Source Group, Inc. (SH)
1962 Freeman Ave.
Signal Hill, CA 90755

**Re : DFSP Norwalk GW Sampling / 04-NDLA-013
A5332322 / 7J06001**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 10/06/17 10:25 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytics.

Sincerely,

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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8260B+OXY+TPHG

QCTB-1	7J06001-01	Water	5	10/05/17 06:00	10/06/17 10:25
QCEB-1	7J06001-02	Water	5	10/05/17 08:15	10/06/17 10:25

8260B+OXYGENATES

GW-2	7J06001-03	Water	5	10/05/17 08:50	10/06/17 10:25
GMW-16	7J06001-04	Water	5	10/05/17 09:35	10/06/17 10:25
GW-6	7J06001-05	Water	5	10/05/17 10:15	10/06/17 10:25
DUP-5	7J06001-06	Water	5	10/05/17 00:00	10/06/17 10:25
TF-8	7J06001-07	Water	5	10/05/17 10:55	10/06/17 10:25
GMW-31	7J06001-08	Water	5	10/05/17 11:30	10/06/17 10:25
GMW-15	7J06001-09	Water	5	10/05/17 12:05	10/06/17 10:25
TF-24	7J06001-10	Water	5	10/05/17 12:40	10/06/17 10:25
GW-13	7J06001-11	Water	5	10/05/17 13:40	10/06/17 10:25
MW-22(MID)	7J06001-12	Water	5	10/05/17 14:15	10/06/17 10:25
TF-9R	7J06001-13	Water	5	10/05/17 14:50	10/06/17 10:25
DUP-6	7J06001-14	Water	5	10/05/17 00:00	10/06/17 10:25

Diesel Range Organics 8015M

GW-2	7J06001-03	Water	5	10/05/17 08:50	10/06/17 10:25
GMW-16	7J06001-04	Water	5	10/05/17 09:35	10/06/17 10:25

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
GW-6	7J06001-05	Water	5	10/05/17 10:15	10/06/17 10:25
DUP-5	7J06001-06	Water	5	10/05/17 00:00	10/06/17 10:25
TF-8	7J06001-07	Water	5	10/05/17 10:55	10/06/17 10:25
GMW-31	7J06001-08	Water	5	10/05/17 11:30	10/06/17 10:25
GMW-15	7J06001-09	Water	5	10/05/17 12:05	10/06/17 10:25
TF-24	7J06001-10	Water	5	10/05/17 12:40	10/06/17 10:25
GW-13	7J06001-11	Water	5	10/05/17 13:40	10/06/17 10:25
MW-22(MID)	7J06001-12	Water	5	10/05/17 14:15	10/06/17 10:25
TF-9R	7J06001-13	Water	5	10/05/17 14:50	10/06/17 10:25
DUP-6	7J06001-14	Water	5	10/05/17 00:00	10/06/17 10:25

Gasoline Range Organics 8015M

GW-2	7J06001-03	Water	5	10/05/17 08:50	10/06/17 10:25
GMW-16	7J06001-04	Water	5	10/05/17 09:35	10/06/17 10:25
GW-6	7J06001-05	Water	5	10/05/17 10:15	10/06/17 10:25
DUP-5	7J06001-06	Water	5	10/05/17 00:00	10/06/17 10:25
TF-8	7J06001-07	Water	5	10/05/17 10:55	10/06/17 10:25
GMW-31	7J06001-08	Water	5	10/05/17 11:30	10/06/17 10:25
GMW-15	7J06001-09	Water	5	10/05/17 12:05	10/06/17 10:25
TF-24	7J06001-10	Water	5	10/05/17 12:40	10/06/17 10:25
GW-13	7J06001-11	Water	5	10/05/17 13:40	10/06/17 10:25

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
MW-22(MID)	7J06001-12	Water	5	10/05/17 14:15	10/06/17 10:25
TF-9R	7J06001-13	Water	5	10/05/17 14:50	10/06/17 10:25
DUP-6	7J06001-14	Water	5	10/05/17 00:00	10/06/17 10:25

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs, OXY & TPH Gasoline by GC/MS

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/05/17	10/05/17	
Date Prepared:	10/11/17	10/11/17	
Date Analyzed:	10/11/17	10/11/17	
AA ID No:	7J06001-01	7J06001-02	
Client ID No:	QCTB-1	QCEB-1	
Matrix:	Water	Water	
Dilution Factor:	1	1	MRL

8260B+OXY+TPHG (EPA 8260B)

Acetone	<10	<10	10
tert-Amyl Methyl Ether (TAME)	<2.0	<2.0	2.0
Benzene	<0.50	<0.50	0.50
Bromobenzene	<0.50	<0.50	0.50
Bromochloromethane	<0.50	<0.50	0.50
Bromodichloromethane	<0.50	<0.50	0.50
Bromoform	<0.50	<0.50	0.50
Bromomethane	<0.50	<0.50	0.50
2-Butanone (MEK)	<10	<10	10
tert-Butyl alcohol (TBA)	<10	<10	10
sec-Butylbenzene	<0.50	<0.50	0.50
tert-Butylbenzene	<0.50	<0.50	0.50
n-Butylbenzene	<0.50	<0.50	0.50
Carbon Disulfide	<0.50	<0.50	0.50
Carbon Tetrachloride	<0.50	<0.50	0.50
Chlorobenzene	<0.50	<0.50	0.50
Chloroethane	<0.50	<0.50	0.50
Chloroform	<0.50	<0.50	0.50
Chloromethane	<0.50	<0.50	0.50
2-Chlorotoluene	<0.50	<0.50	0.50
4-Chlorotoluene	<0.50	<0.50	0.50
1,2-Dibromo-3-chloropropane	<1.0	<1.0	1.0
Dibromochloromethane	<0.50	<0.50	0.50
1,2-Dibromoethane (EDB)	<0.50	<0.50	0.50
Dibromomethane	<0.50	<0.50	0.50
1,3-Dichlorobenzene	<0.50	<0.50	0.50
1,2-Dichlorobenzene	<0.50	<0.50	0.50

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs, OXY & TPH Gasoline by GC/MS

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/05/17	10/05/17	
Date Prepared:	10/11/17	10/11/17	
Date Analyzed:	10/11/17	10/11/17	
AA ID No:	7J06001-01	7J06001-02	
Client ID No:	QCTB-1	QCEB-1	
Matrix:	Water	Water	
Dilution Factor:	1	1	MRL

8260B+OXY+TPHG (EPA 8260B) (continued)

1,4-Dichlorobenzene	<0.50	<0.50	0.50
Dichlorodifluoromethane (R12)	<0.50	<0.50	0.50
1,1-Dichloroethane	<0.50	<0.50	0.50
1,2-Dichloroethane (EDC)	<0.50	<0.50	0.50
1,1-Dichloroethylene	<0.50	<0.50	0.50
trans-1,2-Dichloroethylene	<0.50	<0.50	0.50
cis-1,2-Dichloroethylene	<0.50	<0.50	0.50
1,2-Dichloropropane	<0.50	<0.50	0.50
2,2-Dichloropropane	<0.50	<0.50	0.50
1,3-Dichloropropane	<0.50	<0.50	0.50
cis-1,3-Dichloropropylene	<0.50	<0.50	0.50
trans-1,3-Dichloropropylene	<0.50	<0.50	0.50
1,1-Dichloropropylene	<0.50	<0.50	0.50
Diisopropyl ether (DIPE)	<2.0	<2.0	2.0
Ethylbenzene	<0.50	<0.50	0.50
Ethyl-tert-Butyl Ether (ETBE)	<2.0	<2.0	2.0
Gasoline Range Organics (GRO)	<100	<100	100
Hexachlorobutadiene	<1.0	<1.0	1.0
2-Hexanone (MBK)	<10	<10	10
Isopropylbenzene	<0.50	<0.50	0.50
4-Isopropyltoluene	<1.0	<1.0	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.0	<1.0	1.0
Methylene Chloride	<5.0	<5.0	5.0
4-Methyl-2-pentanone (MIBK)	<10	<10	10
Naphthalene	<2.0	<2.0	2.0
n-Propylbenzene	<0.50	<0.50	0.50

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs, OXY & TPH Gasoline by GC/MS

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/05/17	10/05/17	
Date Prepared:	10/11/17	10/11/17	
Date Analyzed:	10/11/17	10/11/17	
AA ID No:	7J06001-01	7J06001-02	
Client ID No:	QCTB-1	QCEB-1	
Matrix:	Water	Water	
Dilution Factor:	1	1	MRL

8260B+OXY+TPHG (EPA 8260B) (continued)

Styrene	<0.50	<0.50	0.50
1,1,1,2-Tetrachloroethane	<0.50	<0.50	0.50
1,1,2,2-Tetrachloroethane	<0.50	<0.50	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	0.50
Toluene	<0.50	<0.50	0.50
1,2,3-Trichlorobenzene	<0.50	<0.50	0.50
1,2,4-Trichlorobenzene	<0.50	<0.50	0.50
1,1,1-Trichloroethane	<0.50	<0.50	0.50
1,1,2-Trichloroethane	<0.50	<0.50	0.50
Trichloroethylene (TCE)	<0.50	<0.50	0.50
Trichlorofluoromethane (R11)	<0.50	<0.50	0.50
1,2,3-Trichloropropane	<0.50	<0.50	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	<0.50	0.50
1,3,5-Trimethylbenzene	<0.50	<0.50	0.50
1,2,4-Trimethylbenzene	<0.50	<0.50	0.50
Vinyl chloride	<0.50	<0.50	0.50
o-Xylene	<0.50	<0.50	0.50
m,p-Xylenes	<1.0	<1.0	1.0

Surrogates			%REC Limits
4-Bromofluorobenzene	97%	96%	70-140
Dibromofluoromethane	114%	115%	70-140
Toluene-d8	95%	96%	70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/05/17	10/05/17	10/05/17	10/05/17	
Date Prepared:	10/11/17	10/11/17	10/11/17	10/11/17	
Date Analyzed:	10/11/17	10/11/17	10/11/17	10/11/17	
AA ID No:	7J06001-03	7J06001-04	7J06001-05	7J06001-06	
Client ID No:	GW-2	GMW-16	GW-6	DUP-5	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

8260B+OXYGENATES (EPA 8260B)

Acetone	14	<10	<10	<10	10
tert-Amyl Methyl Ether (TAME)	<2.0	<2.0	<2.0	<2.0	2.0
Benzene	<0.50	<0.50	<0.50	<0.50	0.50
Bromobenzene	<0.50	<0.50	<0.50	<0.50	0.50
Bromochloromethane	<0.50	<0.50	<0.50	<0.50	0.50
Bromodichloromethane	<0.50	<0.50	<0.50	<0.50	0.50
Bromoform	<0.50	<0.50	<0.50	<0.50	0.50
Bromomethane	<0.50	<0.50	<0.50	<0.50	0.50
2-Butanone (MEK)	<10	<10	<10	<10	10
tert-Butyl alcohol (TBA)	<10	<10	<10	<10	10
sec-Butylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
tert-Butylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
n-Butylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
Carbon Disulfide	<0.50	<0.50	<0.50	<0.50	0.50
Carbon Tetrachloride	<0.50	<0.50	<0.50	<0.50	0.50
Chlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
Chloroethane	<0.50	<0.50	<0.50	<0.50	0.50
Chloroform	<0.50	<0.50	<0.50	<0.50	0.50
Chloromethane	<0.50	<0.50	<0.50	<0.50	0.50
2-Chlorotoluene	<0.50	<0.50	<0.50	<0.50	0.50
4-Chlorotoluene	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dibromo-3-chloropropane	<1.0	<1.0	<1.0	<1.0	1.0
Dibromochloromethane	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dibromoethane (EDB)	<0.50	<0.50	<0.50	<0.50	0.50
Dibromomethane	<0.50	<0.50	<0.50	<0.50	0.50
1,3-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/05/17	10/05/17	10/05/17	10/05/17	
Date Prepared:	10/11/17	10/11/17	10/11/17	10/11/17	
Date Analyzed:	10/11/17	10/11/17	10/11/17	10/11/17	
AA ID No:	7J06001-03	7J06001-04	7J06001-05	7J06001-06	
Client ID No:	GW-2	GMW-16	GW-6	DUP-5	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

8260B+OXYGENATES (EPA 8260B) (continued)

1,4-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
Dichlorodifluoromethane (R12)	<0.50	<0.50	<0.50	<0.50	0.50
1,1-Dichloroethane	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dichloroethane (EDC)	1.9	<0.50	<0.50	<0.50	0.50
1,1-Dichloroethylene	<0.50	<0.50	<0.50	<0.50	0.50
trans-1,2-Dichloroethylene	<0.50	<0.50	<0.50	<0.50	0.50
cis-1,2-Dichloroethylene	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50	0.50
2,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50	0.50
1,3-Dichloropropane	<0.50	<0.50	<0.50	<0.50	0.50
cis-1,3-Dichloropropylene	<0.50	<0.50	<0.50	<0.50	0.50
trans-1,3-Dichloropropylene	<0.50	<0.50	<0.50	<0.50	0.50
1,1-Dichloropropylene	<0.50	<0.50	<0.50	<0.50	0.50
Diisopropyl ether (DIPE)	<2.0	<2.0	<2.0	<2.0	2.0
Ethylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
Ethyl-tert-Butyl Ether (ETBE)	<2.0	<2.0	<2.0	<2.0	2.0
Hexachlorobutadiene	<1.0	<1.0	<1.0	<1.0	1.0
2-Hexanone (MBK)	<10	<10	<10	<10	10
Isopropylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
4-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.0	<1.0	1.9	1.7	1.0
Methylene Chloride	<5.0	<5.0	<5.0	<5.0	5.0
4-Methyl-2-pentanone (MIBK)	<10	<10	<10	<10	10
Naphthalene	<2.0	<2.0	<2.0	<2.0	2.0
n-Propylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
Styrene	<0.50	<0.50	<0.50	<0.50	0.50
1,1,1,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	0.50

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17
Units: ug/L

Table with 5 columns: Date Sampled, Date Prepared, Date Analyzed, AA ID No, Client ID No, Matrix, Dilution Factor, and MRL. Rows include 10/05/17, 10/11/17, 7J06001-03, GW-2, Water, 1, etc.

8260B+OXYGENATES (EPA 8260B) (continued)

Table listing various chemical compounds like 1,1,2,2-Tetrachloroethane, Tetrachloroethylene (PCE), Toluene, etc., with their respective values and MRLs.

Surrogates

Table showing surrogate recovery percentages for 4-Bromofluorobenzene, Dibromofluoromethane, and Toluene-d8, along with %REC Limits.

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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/05/17	10/05/17	10/05/17	10/05/17	
Date Prepared:	10/11/17	10/12/17	10/12/17	10/12/17	
Date Analyzed:	10/11/17	10/12/17	10/12/17	10/12/17	
AA ID No:	7J06001-07	7J06001-08	7J06001-09	7J06001-10	
Client ID No:	TF-8	GMW-31	GMW-15	TF-24	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

8260B+OXYGENATES (EPA 8260B)

Acetone	<10	<10	<10	<10	10
tert-Amyl Methyl Ether (TAME)	<2.0	<2.0	<2.0	<2.0	2.0
Benzene	<0.50	<0.50	<0.50	<0.50	0.50
Bromobenzene	<0.50	<0.50	<0.50	<0.50	0.50
Bromochloromethane	<0.50	<0.50	<0.50	<0.50	0.50
Bromodichloromethane	<0.50	<0.50	<0.50	<0.50	0.50
Bromoform	<0.50	<0.50	<0.50	<0.50	0.50
Bromomethane	<0.50	<0.50	<0.50	<0.50	0.50
2-Butanone (MEK)	<10	<10	<10	<10	10
tert-Butyl alcohol (TBA)	<10	<10	<10	<10	10
sec-Butylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
tert-Butylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
n-Butylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
Carbon Disulfide	<0.50	<0.50	<0.50	<0.50	0.50
Carbon Tetrachloride	<0.50	<0.50	<0.50	<0.50	0.50
Chlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
Chloroethane	<0.50	<0.50	<0.50	<0.50	0.50
Chloroform	<0.50	<0.50	<0.50	<0.50	0.50
Chloromethane	<0.50	<0.50	<0.50	<0.50	0.50
2-Chlorotoluene	<0.50	<0.50	<0.50	<0.50	0.50
4-Chlorotoluene	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dibromo-3-chloropropane	<1.0	<1.0	<1.0	<1.0	1.0
Dibromochloromethane	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dibromoethane (EDB)	<0.50	<0.50	<0.50	<0.50	0.50
Dibromomethane	<0.50	<0.50	<0.50	<0.50	0.50
1,3-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/05/17	10/05/17	10/05/17	10/05/17	
Date Prepared:	10/11/17	10/12/17	10/12/17	10/12/17	
Date Analyzed:	10/11/17	10/12/17	10/12/17	10/12/17	
AA ID No:	7J06001-07	7J06001-08	7J06001-09	7J06001-10	
Client ID No:	TF-8	GMW-31	GMW-15	TF-24	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

8260B+OXYGENATES (EPA 8260B) (continued)

1,4-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
Dichlorodifluoromethane (R12)	<0.50	<0.50	<0.50	<0.50	0.50
1,1-Dichloroethane	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dichloroethane (EDC)	<0.50	<0.50	<0.50	<0.50	0.50
1,1-Dichloroethylene	<0.50	<0.50	<0.50	<0.50	0.50
trans-1,2-Dichloroethylene	<0.50	<0.50	<0.50	<0.50	0.50
cis-1,2-Dichloroethylene	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50	0.50
2,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50	0.50
1,3-Dichloropropane	<0.50	<0.50	<0.50	<0.50	0.50
cis-1,3-Dichloropropylene	<0.50	<0.50	<0.50	<0.50	0.50
trans-1,3-Dichloropropylene	<0.50	<0.50	<0.50	<0.50	0.50
1,1-Dichloropropylene	<0.50	<0.50	<0.50	<0.50	0.50
Diisopropyl ether (DIPE)	<2.0	<2.0	<2.0	<2.0	2.0
Ethylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
Ethyl-tert-Butyl Ether (ETBE)	<2.0	<2.0	<2.0	<2.0	2.0
Hexachlorobutadiene	<1.0	<1.0	<1.0	<1.0	1.0
2-Hexanone (MBK)	<10	<10	<10	<10	10
Isopropylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
4-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.0	<1.0	<1.0	<1.0	1.0
Methylene Chloride	<5.0	<5.0	<5.0	<5.0	5.0
4-Methyl-2-pentanone (MIBK)	<10	<10	<10	<10	10
Naphthalene	<2.0	<2.0	<2.0	<2.0	2.0
n-Propylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
Styrene	<0.50	<0.50	<0.50	<0.50	0.50
1,1,1,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	0.50

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/05/17	10/05/17	10/05/17	10/05/17	
Date Prepared:	10/11/17	10/12/17	10/12/17	10/12/17	
Date Analyzed:	10/11/17	10/12/17	10/12/17	10/12/17	
AA ID No:	7J06001-07	7J06001-08	7J06001-09	7J06001-10	
Client ID No:	TF-8	GMW-31	GMW-15	TF-24	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

8260B+OXYGENATES (EPA 8260B) (continued)

1,1,2,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	<0.50	<0.50	0.50
Toluene	<0.50	<0.50	<0.50	<0.50	0.50
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
1,2,4-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
1,1,1-Trichloroethane	<0.50	<0.50	<0.50	<0.50	0.50
1,1,2-Trichloroethane	<0.50	<0.50	<0.50	<0.50	0.50
Trichloroethylene (TCE)	<0.50	<0.50	<0.50	<0.50	0.50
Trichlorofluoromethane (R11)	<0.50	<0.50	<0.50	<0.50	0.50
1,2,3-Trichloropropane	<0.50	<0.50	<0.50	<0.50	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	<0.50	<0.50	<0.50	0.50
1,3,5-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
1,2,4-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
Vinyl chloride	<0.50	<0.50	<0.50	<0.50	0.50
o-Xylene	<0.50	<0.50	<0.50	<0.50	0.50
m,p-Xylenes	<1.0	<1.0	<1.0	<1.0	1.0

Surrogates

					%REC Limits
4-Bromofluorobenzene	100%	108%	103%	101%	70-140
Dibromofluoromethane	104%	88%	85%	84%	70-140
Toluene-d8	101%	112%	113%	112%	70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/05/17	10/05/17	10/05/17	10/05/17	
Date Prepared:	10/12/17	10/12/17	10/11/17	10/12/17	
Date Analyzed:	10/12/17	10/12/17	10/11/17	10/13/17	
AA ID No:	7J06001-11	7J06001-12	7J06001-13	7J06001-14	
Client ID No:	GW-13	MW-22(MID)	TF-9R	DUP-6	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	2	MRL

8260B+OXYGENATES (EPA 8260B)

Acetone	<10	<10	<10	<20	10
tert-Amyl Methyl Ether (TAME)	<2.0	<2.0	<2.0	<4.0	2.0
Benzene	<0.50	<0.50	36	34	0.50
Bromobenzene	<0.50	<0.50	<0.50	<1.0	0.50
Bromochloromethane	<0.50	<0.50	<0.50	<1.0	0.50
Bromodichloromethane	<0.50	<0.50	<0.50	<1.0	0.50
Bromoform	<0.50	<0.50	<0.50	<1.0	0.50
Bromomethane	<0.50	<0.50	<0.50	<1.0	0.50
2-Butanone (MEK)	<10	<10	<10	<20	10
tert-Butyl alcohol (TBA)	<10	<10	<10	<20	10
sec-Butylbenzene	<0.50	<0.50	21	24	0.50
tert-Butylbenzene	<0.50	<0.50	3.8	3.3	0.50
n-Butylbenzene	<0.50	<0.50	<0.50	<1.0	0.50
Carbon Disulfide	<0.50	<0.50	<0.50	<1.0	0.50
Carbon Tetrachloride	<0.50	<0.50	<0.50	<1.0	0.50
Chlorobenzene	<0.50	<0.50	<0.50	<1.0	0.50
Chloroethane	<0.50	<0.50	<0.50	<1.0	0.50
Chloroform	<0.50	<0.50	<0.50	<1.0	0.50
Chloromethane	<0.50	<0.50	<0.50	<1.0	0.50
2-Chlorotoluene	<0.50	<0.50	<0.50	<1.0	0.50
4-Chlorotoluene	<0.50	<0.50	<0.50	<1.0	0.50
1,2-Dibromo-3-chloropropane	<1.0	<1.0	<1.0	<2.0	1.0
Dibromochloromethane	<0.50	<0.50	<0.50	<1.0	0.50
1,2-Dibromoethane (EDB)	<0.50	<0.50	<0.50	<1.0	0.50
Dibromomethane	<0.50	<0.50	<0.50	<1.0	0.50
1,3-Dichlorobenzene	<0.50	<0.50	<0.50	<1.0	0.50
1,2-Dichlorobenzene	<0.50	<0.50	<0.50	<1.0	0.50

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/05/17	10/05/17	10/05/17	10/05/17	
Date Prepared:	10/12/17	10/12/17	10/11/17	10/12/17	
Date Analyzed:	10/12/17	10/12/17	10/11/17	10/13/17	
AA ID No:	7J06001-11	7J06001-12	7J06001-13	7J06001-14	
Client ID No:	GW-13	MW-22(MID)	TF-9R	DUP-6	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	2	MRL

8260B+OXYGENATES (EPA 8260B) (continued)

1,4-Dichlorobenzene	<0.50	<0.50	<0.50	<1.0	0.50
Dichlorodifluoromethane (R12)	<0.50	<0.50	<0.50	<1.0	0.50
1,1-Dichloroethane	<0.50	<0.50	<0.50	<1.0	0.50
1,2-Dichloroethane (EDC)	1.4	<0.50	<0.50	<1.0	0.50
1,1-Dichloroethylene	<0.50	<0.50	<0.50	<1.0	0.50
trans-1,2-Dichloroethylene	<0.50	<0.50	<0.50	<1.0	0.50
cis-1,2-Dichloroethylene	<0.50	<0.50	<0.50	<1.0	0.50
1,2-Dichloropropane	<0.50	<0.50	<0.50	<1.0	0.50
2,2-Dichloropropane	<0.50	<0.50	<0.50	<1.0	0.50
1,3-Dichloropropane	<0.50	<0.50	<0.50	<1.0	0.50
cis-1,3-Dichloropropylene	<0.50	<0.50	<0.50	<1.0	0.50
trans-1,3-Dichloropropylene	<0.50	<0.50	<0.50	<1.0	0.50
1,1-Dichloropropylene	<0.50	<0.50	<0.50	<1.0	0.50
Diisopropyl ether (DIPE)	<2.0	<2.0	<2.0	<4.0	2.0
Ethylbenzene	<0.50	<0.50	6.5	5.9	0.50
Ethyl-tert-Butyl Ether (ETBE)	<2.0	<2.0	<2.0	<4.0	2.0
Hexachlorobutadiene	<1.0	<1.0	<1.0	<2.0	1.0
2-Hexanone (MBK)	<10	<10	<10	<20	10
Isopropylbenzene	<0.50	<0.50	80	110	0.50
4-Isopropyltoluene	<1.0	<1.0	<1.0	<2.0	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.0	<1.0	<1.0	<2.0	1.0
Methylene Chloride	<5.0	<5.0	<5.0	<10	5.0
4-Methyl-2-pentanone (MIBK)	<10	<10	<10	<20	10
Naphthalene	<2.0	<2.0	140	150	2.0
n-Propylbenzene	<0.50	<0.50	48	53	0.50
Styrene	<0.50	<0.50	<0.50	<1.0	0.50
1,1,1,2-Tetrachloroethane	<0.50	<0.50	<0.50	<1.0	0.50

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/05/17	10/05/17	10/05/17	10/05/17	
Date Prepared:	10/12/17	10/12/17	10/11/17	10/12/17	
Date Analyzed:	10/12/17	10/12/17	10/11/17	10/13/17	
AA ID No:	7J06001-11	7J06001-12	7J06001-13	7J06001-14	
Client ID No:	GW-13	MW-22(MID)	TF-9R	DUP-6	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	2	MRL

8260B+OXYGENATES (EPA 8260B) (continued)

1,1,2,2-Tetrachloroethane	<0.50	<0.50	<0.50	<1.0	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	<0.50	<1.0	0.50
Toluene	<0.50	<0.50	<0.50	<1.0	0.50
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<1.0	0.50
1,2,4-Trichlorobenzene	<0.50	<0.50	<0.50	<1.0	0.50
1,1,1-Trichloroethane	<0.50	<0.50	<0.50	<1.0	0.50
1,1,2-Trichloroethane	<0.50	<0.50	<0.50	<1.0	0.50
Trichloroethylene (TCE)	<0.50	<0.50	<0.50	<1.0	0.50
Trichlorofluoromethane (R11)	<0.50	<0.50	<0.50	<1.0	0.50
1,2,3-Trichloropropane	<0.50	<0.50	<0.50	<1.0	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	<0.50	<0.50	<1.0	0.50
1,3,5-Trimethylbenzene	<0.50	<0.50	<0.50	<1.0	0.50
1,2,4-Trimethylbenzene	<0.50	<0.50	11	9.6	0.50
Vinyl chloride	<0.50	<0.50	<0.50	<1.0	0.50
o-Xylene	<0.50	<0.50	0.51	<1.0	0.50
m,p-Xylenes	<1.0	<1.0	<1.0	<2.0	1.0

Surrogates

					%REC Limits
4-Bromofluorobenzene	109%	105%	85%	90%	70-140
Dibromofluoromethane	87%	80%	105%	86%	70-140
Toluene-d8	111%	113%	97%	106%	70-140

Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: Diesel Range Organics by GC/FID

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17
Units: mg/L

Date Sampled:	10/05/17	10/05/17	10/05/17	10/05/17	
Date Prepared:	10/11/17	10/11/17	10/11/17	10/11/17	
Date Analyzed:	10/11/17	10/11/17	10/11/17	10/11/17	
AA ID No:	7J06001-03	7J06001-04	7J06001-05	7J06001-06	
Client ID No:	GW-2	GMW-16	GW-6	DUP-5	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

Diesel Range Organics 8015M (EPA 8015M)

Diesel Range Organics as Diesel	0.16	0.37	0.23	0.24	0.10
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Surrogates

o-Terphenyl	139%	137%	131%	134%	<u>%REC Limits</u> 50-150
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: Diesel Range Organics by GC/FID

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17
Units: mg/L

Date Sampled:	10/05/17	10/05/17	10/05/17	10/05/17	
Date Prepared:	10/11/17	10/11/17	10/11/17	10/11/17	
Date Analyzed:	10/11/17	10/11/17	10/11/17	10/11/17	
AA ID No:	7J06001-07	7J06001-08	7J06001-09	7J06001-10	
Client ID No:	TF-8	GMW-31	GMW-15	TF-24	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

Diesel Range Organics 8015M (EPA 8015M)

Diesel Range Organics as Diesel	0.64	0.27	2.0	2.5	0.10
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Surrogates

o-Terphenyl	110%	137%	118%	127%	<u>%REC Limits</u> 50-150
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: Diesel Range Organics by GC/FID

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17
Units: mg/L

Date Sampled:	10/05/17	10/05/17	10/05/17	10/05/17	
Date Prepared:	10/11/17	10/11/17	10/11/17	10/11/17	
Date Analyzed:	10/11/17	10/11/17	10/11/17	10/11/17	
AA ID No:	7J06001-11	7J06001-12	7J06001-13	7J06001-14	
Client ID No:	GW-13	MW-22(MID)	TF-9R	DUP-6	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

Diesel Range Organics 8015M (EPA 8015M)

Diesel Range Organics as Diesel	<0.10	0.10	1.5	1.7	0.10
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Surrogates

o-Terphenyl	129%	123%	104%	119%	<u>%REC Limits</u> 50-150
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Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: Gasoline Range Organics by GC/FID

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/05/17	10/05/17	10/05/17	10/05/17	
Date Prepared:	10/12/17	10/11/17	10/11/17	10/11/17	
Date Analyzed:	10/12/17	10/11/17	10/11/17	10/11/17	
AA ID No:	7J06001-03	7J06001-04	7J06001-05	7J06001-06	
Client ID No:	GW-2	GMW-16	GW-6	DUP-5	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

Gasoline Range Organics 8015M (EPA 8015M)

Gasoline Range Organics (GRO)	<100	<100	<100	<100	100
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Surrogates

a,a,a-Trifluorotoluene	101%	85%	82%	84%	<u>%REC Limits</u> 80-120
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: Gasoline Range Organics by GC/FID

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/05/17	10/05/17	10/05/17	10/05/17	
Date Prepared:	10/11/17	10/11/17	10/11/17	10/11/17	
Date Analyzed:	10/11/17	10/11/17	10/11/17	10/11/17	
AA ID No:	7J06001-07	7J06001-08	7J06001-09	7J06001-10	
Client ID No:	TF-8	GMW-31	GMW-15	TF-24	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

Gasoline Range Organics 8015M (EPA 8015M)

Gasoline Range Organics (GRO)	<100	<100	<100	<100	100
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Surrogates

a,a,a-Trifluorotoluene	88%	82%	83%	83%	<u>%REC Limits</u> 80-120
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Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: Gasoline Range Organics by GC/FID

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/05/17	10/05/17	10/05/17	10/05/17	
Date Prepared:	10/11/17	10/11/17	10/11/17	10/11/17	
Date Analyzed:	10/11/17	10/11/17	10/11/17	10/11/17	
AA ID No:	7J06001-11	7J06001-12	7J06001-13	7J06001-14	
Client ID No:	GW-13	MW-22(MID)	TF-9R	DUP-6	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

Gasoline Range Organics 8015M (EPA 8015M)

Gasoline Range Organics (GRO)	<100	<100	1500	1500	100
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Surrogates

a,a,a-Trifluorotoluene	96%	90%	102%	102%	<u>%REC Limits</u> 80-120
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17

Analyte	Reporting Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J1144 - EPA 5030B

Blank (B7J1144-BLK1)

Prepared & Analyzed: 10/11/17

Acetone	<10	10	ug/L							
tert-Amyl Methyl Ether (TAME)	<2.0	2.0	ug/L							
Benzene	<0.50	0.50	ug/L							
Bromobenzene	<0.50	0.50	ug/L							
Bromochloromethane	<0.50	0.50	ug/L							
Bromodichloromethane	<0.50	0.50	ug/L							
Bromoform	<0.50	0.50	ug/L							
Bromomethane	<0.50	0.50	ug/L							
2-Butanone (MEK)	<10	10	ug/L							
tert-Butyl alcohol (TBA)	<10	10	ug/L							
sec-Butylbenzene	<0.50	0.50	ug/L							
tert-Butylbenzene	<0.50	0.50	ug/L							
n-Butylbenzene	<0.50	0.50	ug/L							
Carbon Disulfide	<0.50	0.50	ug/L							
Carbon Tetrachloride	<0.50	0.50	ug/L							
Chlorobenzene	<0.50	0.50	ug/L							
Chloroethane	<0.50	0.50	ug/L							
Chloroform	<0.50	0.50	ug/L							
Chloromethane	<0.50	0.50	ug/L							
2-Chlorotoluene	<0.50	0.50	ug/L							
4-Chlorotoluene	<0.50	0.50	ug/L							
1,2-Dibromo-3-chloropropane	<1.0	1.0	ug/L							
Dibromochloromethane	<0.50	0.50	ug/L							
1,2-Dibromoethane (EDB)	<0.50	0.50	ug/L							
Dibromomethane	<0.50	0.50	ug/L							
1,3-Dichlorobenzene	<0.50	0.50	ug/L							
1,2-Dichlorobenzene	<0.50	0.50	ug/L							
1,4-Dichlorobenzene	<0.50	0.50	ug/L							
Dichlorodifluoromethane (R12)	<0.50	0.50	ug/L							
1,1-Dichloroethane	<0.50	0.50	ug/L							
1,2-Dichloroethane (EDC)	<0.50	0.50	ug/L							

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J1144 - EPA 5030B

Blank (B7J1144-BLK1) Continued

Prepared & Analyzed: 10/11/17

1,1-Dichloroethylene	<0.50	0.50	ug/L
trans-1,2-Dichloroethylene	<0.50	0.50	ug/L
cis-1,2-Dichloroethylene	<0.50	0.50	ug/L
1,2-Dichloropropane	<0.50	0.50	ug/L
2,2-Dichloropropane	<0.50	0.50	ug/L
1,3-Dichloropropane	<0.50	0.50	ug/L
cis-1,3-Dichloropropylene	<0.50	0.50	ug/L
trans-1,3-Dichloropropylene	<0.50	0.50	ug/L
1,1-Dichloropropylene	<0.50	0.50	ug/L
Diisopropyl ether (DIPE)	<2.0	2.0	ug/L
Ethylbenzene	<0.50	0.50	ug/L
Ethyl-tert-Butyl Ether (ETBE)	<2.0	2.0	ug/L
Gasoline Range Organics (GRO)	<100	100	ug/L
Hexachlorobutadiene	<1.0	1.0	ug/L
2-Hexanone (MBK)	<10	10	ug/L
Isopropylbenzene	<0.50	0.50	ug/L
4-Isopropyltoluene	<1.0	1.0	ug/L
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L
Methylene Chloride	<5.0	5.0	ug/L
4-Methyl-2-pentanone (MIBK)	<10	10	ug/L
Naphthalene	<2.0	2.0	ug/L
n-Propylbenzene	<0.50	0.50	ug/L
Styrene	<0.50	0.50	ug/L
1,1,1,2-Tetrachloroethane	<0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	<0.50	0.50	ug/L
Tetrachloroethylene (PCE)	<0.50	0.50	ug/L
Toluene	<0.50	0.50	ug/L
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L
1,2,4-Trichlorobenzene	<0.50	0.50	ug/L
1,1,1-Trichloroethane	<0.50	0.50	ug/L
1,1,2-Trichloroethane	<0.50	0.50	ug/L

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J1144 - EPA 5030B

Blank (B7J1144-BLK1) Continued

Prepared & Analyzed: 10/11/17

Trichloroethylene (TCE)	<0.50	0.50	ug/L
Trichlorofluoromethane (R11)	<0.50	0.50	ug/L
1,2,3-Trichloropropane	<0.50	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	0.50	ug/L
1,3,5-Trimethylbenzene	<0.50	0.50	ug/L
1,2,4-Trimethylbenzene	<0.50	0.50	ug/L
Vinyl chloride	<0.50	0.50	ug/L
o-Xylene	<0.50	0.50	ug/L
m,p-Xylenes	<1.0	1.0	ug/L

Surrogate: 4-Bromofluorobenzene	48.1		ug/L	50		96.2	70-140
Surrogate: Dibromofluoromethane	56.1		ug/L	50		112	70-140
Surrogate: Toluene-d8	48.7		ug/L	50		97.3	70-140

LCS (B7J1144-BS1)

Prepared & Analyzed: 10/11/17

Acetone	22.9	10	ug/L	20		114	70-130
tert-Amyl Methyl Ether (TAME)	18.2	2.0	ug/L	20		91.2	70-130
Benzene	21.3	0.50	ug/L	20		106	75-125
Bromobenzene	22.6	0.50	ug/L	20		113	70-130
Bromochloromethane	19.8	0.50	ug/L	20		98.9	70-130
Bromodichloromethane	20.2	0.50	ug/L	20		101	75-125
Bromoform	21.2	0.50	ug/L	20		106	75-125
Bromomethane	20.6	0.50	ug/L	20		103	75-125
2-Butanone (MEK)	21.4	10	ug/L	20		107	70-130
tert-Butyl alcohol (TBA)	83.5	10	ug/L	100		83.5	70-130
sec-Butylbenzene	23.2	0.50	ug/L	20		116	70-130
tert-Butylbenzene	23.6	0.50	ug/L	20		118	70-130
n-Butylbenzene	23.6	0.50	ug/L	20		118	70-130
Carbon Disulfide	20.4	0.50	ug/L	20		102	70-130
Carbon Tetrachloride	21.2	0.50	ug/L	20		106	75-125
Chlorobenzene	22.6	0.50	ug/L	20		113	75-125
Chloroethane	19.3	0.50	ug/L	20		96.7	75-125

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J1144 - EPA 5030B

LCS (B7J1144-BS1) Continued

Prepared & Analyzed: 10/11/17

Chloroform	20.0	0.50	ug/L	20	100	75-125
Chloromethane	18.7	0.50	ug/L	20	93.6	65-125
2-Chlorotoluene	22.8	0.50	ug/L	20	114	70-130
4-Chlorotoluene	22.2	0.50	ug/L	20	111	70-130
1,2-Dibromo-3-chloropropane	19.3	1.0	ug/L	20	96.4	70-130
Dibromochloromethane	20.9	0.50	ug/L	20	104	75-125
1,2-Dibromoethane (EDB)	20.2	0.50	ug/L	20	101	70-130
Dibromomethane	20.3	0.50	ug/L	20	102	70-130
1,3-Dichlorobenzene	21.9	0.50	ug/L	20	110	70-130
1,2-Dichlorobenzene	23.0	0.50	ug/L	20	115	70-130
1,4-Dichlorobenzene	21.8	0.50	ug/L	20	109	75-125
Dichlorodifluoromethane (R12)	18.8	0.50	ug/L	20	93.8	70-130
1,1-Dichloroethane	20.7	0.50	ug/L	20	103	70-125
1,2-Dichloroethane (EDC)	19.4	0.50	ug/L	20	97.0	75-125
1,1-Dichloroethylene	20.5	0.50	ug/L	20	103	70-130
trans-1,2-Dichloroethylene	21.9	0.50	ug/L	20	110	75-125
cis-1,2-Dichloroethylene	21.5	0.50	ug/L	20	107	75-125
1,2-Dichloropropane	21.0	0.50	ug/L	20	105	75-130
2,2-Dichloropropane	21.1	0.50	ug/L	20	105	70-130
1,3-Dichloropropane	20.3	0.50	ug/L	20	102	70-130
cis-1,3-Dichloropropylene	21.6	0.50	ug/L	20	108	75-125
trans-1,3-Dichloropropylene	20.8	0.50	ug/L	20	104	70-130
1,1-Dichloropropylene	22.4	0.50	ug/L	20	112	70-130
Diisopropyl ether (DIPE)	20.4	2.0	ug/L	20	102	70-130
Ethylbenzene	23.2	0.50	ug/L	20	116	75-125
Ethyl-tert-Butyl Ether (ETBE)	19.7	2.0	ug/L	20	98.4	70-130
Gasoline Range Organics (GRO)	571	100	ug/L	500	114	70-130
Hexachlorobutadiene	23.7	1.0	ug/L	20	119	70-130
2-Hexanone (MBK)	18.6	10	ug/L	20	93.2	70-130
Isopropylbenzene	23.9	0.50	ug/L	20	120	70-130
4-Isopropyltoluene	22.2	1.0	ug/L	20	111	70-130

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J1144 - EPA 5030B

LCS (B7J1144-BS1) Continued

Prepared & Analyzed: 10/11/17

Methyl-tert-Butyl Ether (MTBE)	35.8	1.0	ug/L	40		89.4	75-125			
Methylene Chloride	17.5	5.0	ug/L	20		87.6	75-130			
4-Methyl-2-pentanone (MIBK)	19.0	10	ug/L	20		95.1	70-130			
Naphthalene	23.6	2.0	ug/L	20		118	70-130			
n-Propylbenzene	23.7	0.50	ug/L	20		118	70-130			
Styrene	23.4	0.50	ug/L	20		117	70-130			
1,1,1,2-Tetrachloroethane	21.8	0.50	ug/L	20		109	70-130			
1,1,2,2-Tetrachloroethane	19.9	0.50	ug/L	20		99.4	70-135			
Tetrachloroethylene (PCE)	23.7	0.50	ug/L	20		118	75-125			
Toluene	21.5	0.50	ug/L	20		108	75-125			
1,2,3-Trichlorobenzene	24.0	0.50	ug/L	20		120	70-130			
1,2,4-Trichlorobenzene	24.1	0.50	ug/L	20		121	70-130			
1,1,1-Trichloroethane	21.2	0.50	ug/L	20		106	75-125			
1,1,2-Trichloroethane	20.2	0.50	ug/L	20		101	75-125			
Trichloroethylene (TCE)	21.8	0.50	ug/L	20		109	75-125			
Trichlorofluoromethane (R11)	19.6	0.50	ug/L	20		97.9	70-130			
1,2,3-Trichloropropane	18.2	0.50	ug/L	20		90.8	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	19.0	0.50	ug/L	20		95.0	70-130			
1,3,5-Trimethylbenzene	23.0	0.50	ug/L	20		115	70-130			
1,2,4-Trimethylbenzene	22.9	0.50	ug/L	20		114	70-130			
Vinyl chloride	18.5	0.50	ug/L	20		92.3	75-125			
o-Xylene	21.4	0.50	ug/L	20		107	75-125			
m,p-Xylenes	43.5	1.0	ug/L	40		109	70-130			

Surrogate: 4-Bromofluorobenzene	49.0		ug/L	50		97.9	70-140			
Surrogate: Dibromofluoromethane	46.5		ug/L	50		93.1	70-140			
Surrogate: Toluene-d8	49.6		ug/L	50		99.2	70-140			

Matrix Spike (B7J1144-MS1)

Source: 7J05019-12 Prepared & Analyzed: 10/11/17

Acetone	35.8	10	ug/L	20	13.5	111	70-130			
tert-Amyl Methyl Ether (TAME)	19.0	2.0	ug/L	20		94.8	70-130			
Benzene	21.6	0.50	ug/L	20		108	70-130			

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs, OXY & TPH Gasoline by GC/MS - Quality Control										
<i>Batch B7J1144 - EPA 5030B</i>										
Matrix Spike (B7J1144-MS1) Continued Source: 7J05019-12 Prepared & Analyzed: 10/11/17										
Bromobenzene	23.7	0.50	ug/L	20		118	70-130			
Bromochloromethane	21.8	0.50	ug/L	20		109	70-130			
Bromodichloromethane	20.9	0.50	ug/L	20		104	70-130			
Bromoform	22.0	0.50	ug/L	20		110	70-130			
Bromomethane	16.2	0.50	ug/L	20		81.0	70-130			
2-Butanone (MEK)	24.0	10	ug/L	20		120	70-130			
tert-Butyl alcohol (TBA)	94.5	10	ug/L	100		94.5	70-130			
sec-Butylbenzene	22.8	0.50	ug/L	20		114	70-130			
tert-Butylbenzene	23.6	0.50	ug/L	20	0.480	116	70-130			
n-Butylbenzene	22.8	0.50	ug/L	20		114	70-130			
Carbon Disulfide	19.5	0.50	ug/L	20		97.4	70-130			
Carbon Tetrachloride	20.8	0.50	ug/L	20		104	70-130			
Chlorobenzene	21.8	0.50	ug/L	20		109	70-130			
Chloroethane	18.2	0.50	ug/L	20		91.2	70-130			
Chloroform	20.3	0.50	ug/L	20		101	70-130			
Chloromethane	17.8	0.50	ug/L	20		88.8	70-130			
2-Chlorotoluene	23.1	0.50	ug/L	20		116	70-130			
4-Chlorotoluene	22.3	0.50	ug/L	20		112	70-130			
1,2-Dibromo-3-chloropropane	21.5	1.0	ug/L	20		107	70-130			
Dibromochloromethane	21.4	0.50	ug/L	20		107	70-130			
1,2-Dibromoethane (EDB)	21.4	0.50	ug/L	20		107	70-130			
Dibromomethane	21.4	0.50	ug/L	20		107	70-130			
1,3-Dichlorobenzene	22.3	0.50	ug/L	20		111	70-130			
1,2-Dichlorobenzene	23.7	0.50	ug/L	20		118	70-130			
1,4-Dichlorobenzene	22.0	0.50	ug/L	20		110	70-130			
Dichlorodifluoromethane (R12)	16.3	0.50	ug/L	20		81.3	70-130			
1,1-Dichloroethane	20.5	0.50	ug/L	20		103	70-130			
1,2-Dichloroethane (EDC)	19.9	0.50	ug/L	20		99.4	70-130			
1,1-Dichloroethylene	19.7	0.50	ug/L	20		98.6	70-130			
trans-1,2-Dichloroethylene	22.1	0.50	ug/L	20		110	70-130			
cis-1,2-Dichloroethylene	21.6	0.50	ug/L	20		108	70-130			

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs, OXY & TPH Gasoline by GC/MS - Quality Control										
<i>Batch B7J1144 - EPA 5030B</i>										
Matrix Spike (B7J1144-MS1) Continued Source: 7J05019-12 Prepared & Analyzed: 10/11/17										
1,2-Dichloropropane	21.4	0.50	ug/L	20		107	70-130			
2,2-Dichloropropane	18.9	0.50	ug/L	20		94.4	70-130			
1,3-Dichloropropane	20.9	0.50	ug/L	20		104	70-130			
cis-1,3-Dichloropropylene	21.6	0.50	ug/L	20		108	70-130			
trans-1,3-Dichloropropylene	20.5	0.50	ug/L	20		103	70-130			
1,1-Dichloropropylene	22.2	0.50	ug/L	20		111	70-130			
Diisopropyl ether (DIPE)	21.4	2.0	ug/L	20		107	70-130			
Ethylbenzene	22.2	0.50	ug/L	20		111	70-130			
Ethyl-tert-Butyl Ether (ETBE)	20.7	2.0	ug/L	20		103	70-130			
Hexachlorobutadiene	21.6	1.0	ug/L	20		108	70-130			
2-Hexanone (MBK)	18.1	10	ug/L	20		90.4	70-130			
Isopropylbenzene	23.8	0.50	ug/L	20		119	70-130			
4-Isopropyltoluene	22.1	1.0	ug/L	20		110	70-130			
Methyl-tert-Butyl Ether (MTBE)	42.0	1.0	ug/L	40	3.13	97.2	70-130			
Methylene Chloride	16.9	5.0	ug/L	20		84.6	70-130			
4-Methyl-2-pentanone (MIBK)	20.9	10	ug/L	20		104	70-130			
Naphthalene	23.4	2.0	ug/L	20		117	70-130			
n-Propylbenzene	23.8	0.50	ug/L	20		119	70-130			
Styrene	22.4	0.50	ug/L	20		112	70-130			
1,1,1,2-Tetrachloroethane	21.6	0.50	ug/L	20		108	70-130			
1,1,2,2-Tetrachloroethane	21.0	0.50	ug/L	20		105	70-130			
Tetrachloroethylene (PCE)	22.7	0.50	ug/L	20		113	70-130			
Toluene	21.4	0.50	ug/L	20		107	70-130			
1,2,3-Trichlorobenzene	23.9	0.50	ug/L	20		120	70-130			
1,2,4-Trichlorobenzene	23.4	0.50	ug/L	20		117	70-130			
1,1,1-Trichloroethane	20.5	0.50	ug/L	20		103	70-130			
1,1,2-Trichloroethane	22.2	0.50	ug/L	20		111	70-130			
Trichloroethylene (TCE)	21.6	0.50	ug/L	20		108	70-130			
Trichlorofluoromethane (R11)	18.1	0.50	ug/L	20		90.6	70-130			
1,2,3-Trichloropropane	20.6	0.50	ug/L	20		103	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	18.6	0.50	ug/L	20		93.0	70-130			

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17

Table with 11 columns: Analyte, Reporting Result, Reporting Limit, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Notes

VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J1144 - EPA 5030B

Matrix Spike (B7J1144-MS1) Continued Source: 7J05019-12 Prepared & Analyzed: 10/11/17

Table listing analytes such as 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, Vinyl chloride, o-Xylene, m,p-Xylenes, and Surrogate: 4-Bromofluorobenzene with their respective results and limits.

Matrix Spike Dup (B7J1144-MSD1) Source: 7J05019-12 Prepared & Analyzed: 10/11/17

Table listing analytes such as Acetone, tert-Amyl Methyl Ether (TAME), Benzene, Bromobenzene, Bromochloromethane, Bromodichloromethane, Bromoform, Bromomethane, 2-Butanone (MEK), tert-Butyl alcohol (TBA), sec-Butylbenzene, tert-Butylbenzene, n-Butylbenzene, Carbon Disulfide, Carbon Tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, 2-Chlorotoluene, 4-Chlorotoluene, and 1,2-Dibromo-3-chloropropane with their respective results and limits.

Handwritten signature

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J1144 - EPA 5030B

Matrix Spike Dup (B7J1144-MSD1) Source: 7J05019-12 Prepared & Analyzed: 10/11/17

Continued

Dibromochloromethane	20.9	0.50	ug/L	20		104	70-130	2.51	30	
1,2-Dibromoethane (EDB)	20.9	0.50	ug/L	20		104	70-130	2.41	30	
Dibromomethane	20.6	0.50	ug/L	20		103	70-130	3.82	30	
1,3-Dichlorobenzene	22.3	0.50	ug/L	20		112	70-130	0.224	30	
1,2-Dichlorobenzene	23.7	0.50	ug/L	20		119	70-130	0.169	30	
1,4-Dichlorobenzene	22.1	0.50	ug/L	20		110	70-130	0.454	30	
Dichlorodifluoromethane (R12)	16.8	0.50	ug/L	20		83.8	70-130	3.03	30	
1,1-Dichloroethane	20.6	0.50	ug/L	20		103	70-130	0.438	30	
1,2-Dichloroethane (EDC)	19.1	0.50	ug/L	20		95.4	70-130	4.05	30	
1,1-Dichloroethylene	20.2	0.50	ug/L	20		101	70-130	2.31	30	
trans-1,2-Dichloroethylene	21.2	0.50	ug/L	20		106	70-130	4.16	30	
cis-1,2-Dichloroethylene	21.7	0.50	ug/L	20		109	70-130	0.415	30	
1,2-Dichloropropane	20.6	0.50	ug/L	20		103	70-130	3.62	30	
2,2-Dichloropropane	18.8	0.50	ug/L	20		94.2	70-130	0.265	30	
1,3-Dichloropropane	20.3	0.50	ug/L	20		102	70-130	2.82	30	
cis-1,3-Dichloropropylene	21.2	0.50	ug/L	20		106	70-130	2.10	30	
trans-1,3-Dichloropropylene	19.6	0.50	ug/L	20		98.2	70-130	4.28	30	
1,1-Dichloropropylene	22.1	0.50	ug/L	20		111	70-130	0.496	30	
Diisopropyl ether (DIPE)	21.0	2.0	ug/L	20		105	70-130	1.93	30	
Ethylbenzene	22.0	0.50	ug/L	20		110	70-130	0.498	30	
Ethyl-tert-Butyl Ether (ETBE)	19.7	2.0	ug/L	20		98.6	70-130	4.80	30	
Hexachlorobutadiene	22.8	1.0	ug/L	20		114	70-130	5.32	30	
2-Hexanone (MBK)	17.5	10	ug/L	20		87.6	70-130	3.15	30	
Isopropylbenzene	23.7	0.50	ug/L	20		119	70-130	0.337	30	
4-Isopropyltoluene	22.3	1.0	ug/L	20		112	70-130	1.04	30	
Methyl-tert-Butyl Ether (MTBE)	40.8	1.0	ug/L	40	3.13	94.1	70-130	2.95	30	
Methylene Chloride	18.1	5.0	ug/L	20		90.6	70-130	6.85	30	
4-Methyl-2-pentanone (MIBK)	18.8	10	ug/L	20		93.8	70-130	10.7	30	
Naphthalene	25.8	2.0	ug/L	20		129	70-130	9.62	30	
n-Propylbenzene	23.5	0.50	ug/L	20		117	70-130	1.35	30	
Styrene	22.0	0.50	ug/L	20		110	70-130	1.76	30	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J1144 - EPA 5030B

Matrix Spike Dup (B7J1144-MSD1) Source: 7J05019-12 Prepared & Analyzed: 10/11/17

Continued

1,1,1,2-Tetrachloroethane	21.3	0.50	ug/L	20	107	70-130	1.26	30		
1,1,2,2-Tetrachloroethane	20.0	0.50	ug/L	20	100	70-130	5.02	30		
Tetrachloroethylene (PCE)	22.7	0.50	ug/L	20	113	70-130	0.00	30		
Toluene	21.2	0.50	ug/L	20	106	70-130	1.31	30		
1,2,3-Trichlorobenzene	25.5	0.50	ug/L	20	128	70-130	6.63	30		
1,2,4-Trichlorobenzene	24.7	0.50	ug/L	20	124	70-130	5.49	30		
1,1,1-Trichloroethane	20.8	0.50	ug/L	20	104	70-130	1.16	30		
1,1,2-Trichloroethane	20.7	0.50	ug/L	20	103	70-130	7.27	30		
Trichloroethylene (TCE)	22.0	0.50	ug/L	20	110	70-130	1.98	30		
Trichlorofluoromethane (R11)	18.6	0.50	ug/L	20	92.8	70-130	2.40	30		
1,2,3-Trichloropropane	19.4	0.50	ug/L	20	96.9	70-130	5.91	30		
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	17.4	0.50	ug/L	20	86.8	70-130	6.84	30		
1,3,5-Trimethylbenzene	23.0	0.50	ug/L	20	115	70-130	0.738	30		
1,2,4-Trimethylbenzene	22.8	0.50	ug/L	20	114	70-130	1.22	30		
Vinyl chloride	17.3	0.50	ug/L	20	86.6	70-130	2.69	30		
o-Xylene	20.6	0.50	ug/L	20	103	70-130	0.774	30		
m,p-Xylenes	42.3	1.0	ug/L	40	106	70-130	0.354	30		
Surrogate: 4-Bromofluorobenzene	47.7		ug/L	50	95.5	70-140				
Surrogate: Dibromofluoromethane	45.9		ug/L	50	91.9	70-140				
Surrogate: Toluene-d8	46.8		ug/L	50	93.6	70-140				

VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1144 - EPA 5030B

Blank (B7J1144-BLK1) Prepared & Analyzed: 10/11/17

Acetone	<10	10	ug/L							
tert-Amyl Methyl Ether (TAME)	<2.0	2.0	ug/L							
Benzene	<0.50	0.50	ug/L							
Bromobenzene	<0.50	0.50	ug/L							
Bromochloromethane	<0.50	0.50	ug/L							
Bromodichloromethane	<0.50	0.50	ug/L							

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17

Analyte	Reporting Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1144 - EPA 5030B

Blank (B7J1144-BLK1) Continued

Prepared & Analyzed: 10/11/17

Bromoform	<0.50	0.50	ug/L
Bromomethane	<0.50	0.50	ug/L
2-Butanone (MEK)	<10	10	ug/L
tert-Butyl alcohol (TBA)	<10	10	ug/L
sec-Butylbenzene	<0.50	0.50	ug/L
tert-Butylbenzene	<0.50	0.50	ug/L
n-Butylbenzene	<0.50	0.50	ug/L
Carbon Disulfide	<0.50	0.50	ug/L
Carbon Tetrachloride	<0.50	0.50	ug/L
Chlorobenzene	<0.50	0.50	ug/L
Chloroethane	<0.50	0.50	ug/L
Chloroform	<0.50	0.50	ug/L
Chloromethane	<0.50	0.50	ug/L
2-Chlorotoluene	<0.50	0.50	ug/L
4-Chlorotoluene	<0.50	0.50	ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0	ug/L
Dibromochloromethane	<0.50	0.50	ug/L
1,2-Dibromoethane (EDB)	<0.50	0.50	ug/L
Dibromomethane	<0.50	0.50	ug/L
1,3-Dichlorobenzene	<0.50	0.50	ug/L
1,2-Dichlorobenzene	<0.50	0.50	ug/L
1,4-Dichlorobenzene	<0.50	0.50	ug/L
Dichlorodifluoromethane (R12)	<0.50	0.50	ug/L
1,1-Dichloroethane	<0.50	0.50	ug/L
1,2-Dichloroethane (EDC)	<0.50	0.50	ug/L
1,1-Dichloroethylene	<0.50	0.50	ug/L
trans-1,2-Dichloroethylene	<0.50	0.50	ug/L
cis-1,2-Dichloroethylene	<0.50	0.50	ug/L
1,2-Dichloropropane	<0.50	0.50	ug/L
2,2-Dichloropropane	<0.50	0.50	ug/L
1,3-Dichloropropane	<0.50	0.50	ug/L

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1144 - EPA 5030B

Blank (B7J1144-BLK1) Continued

Prepared & Analyzed: 10/11/17

cis-1,3-Dichloropropylene	<0.50	0.50	ug/L
trans-1,3-Dichloropropylene	<0.50	0.50	ug/L
1,1-Dichloropropylene	<0.50	0.50	ug/L
Diisopropyl ether (DIPE)	<2.0	2.0	ug/L
Ethylbenzene	<0.50	0.50	ug/L
Ethyl-tert-Butyl Ether (ETBE)	<2.0	2.0	ug/L
Hexachlorobutadiene	<1.0	1.0	ug/L
2-Hexanone (MBK)	<10	10	ug/L
Isopropylbenzene	<0.50	0.50	ug/L
4-Isopropyltoluene	<1.0	1.0	ug/L
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L
Methylene Chloride	<5.0	5.0	ug/L
4-Methyl-2-pentanone (MIBK)	<10	10	ug/L
Naphthalene	<2.0	2.0	ug/L
n-Propylbenzene	<0.50	0.50	ug/L
Styrene	<0.50	0.50	ug/L
1,1,1,2-Tetrachloroethane	<0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	<0.50	0.50	ug/L
Tetrachloroethylene (PCE)	<0.50	0.50	ug/L
Toluene	<0.50	0.50	ug/L
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L
1,2,4-Trichlorobenzene	<0.50	0.50	ug/L
1,1,1-Trichloroethane	<0.50	0.50	ug/L
1,1,2-Trichloroethane	<0.50	0.50	ug/L
Trichloroethylene (TCE)	<0.50	0.50	ug/L
Trichlorofluoromethane (R11)	<0.50	0.50	ug/L
1,2,3-Trichloropropane	<0.50	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	0.50	ug/L
1,3,5-Trimethylbenzene	<0.50	0.50	ug/L
1,2,4-Trimethylbenzene	<0.50	0.50	ug/L
Vinyl chloride	<0.50	0.50	ug/L

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17

Analyte	Reporting Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1144 - EPA 5030B

Blank (B7J1144-BLK1) Continued

Prepared & Analyzed: 10/11/17

o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	48.1		ug/L	50		96.2	70-140			
Surrogate: Dibromofluoromethane	56.1		ug/L	50		112	70-140			
Surrogate: Toluene-d8	48.7		ug/L	50		97.3	70-140			

LCS (B7J1144-BS1)

Prepared & Analyzed: 10/11/17

Acetone	22.9	10	ug/L	20		114	70-130			
tert-Amyl Methyl Ether (TAME)	18.2	2.0	ug/L	20		91.2	70-130			
Benzene	21.3	0.50	ug/L	20		106	75-125			
Bromobenzene	22.6	0.50	ug/L	20		113	70-130			
Bromochloromethane	19.8	0.50	ug/L	20		98.9	70-130			
Bromodichloromethane	20.2	0.50	ug/L	20		101	75-125			
Bromoform	21.2	0.50	ug/L	20		106	75-125			
Bromomethane	20.6	0.50	ug/L	20		103	75-125			
2-Butanone (MEK)	21.4	10	ug/L	20		107	70-130			
tert-Butyl alcohol (TBA)	83.5	10	ug/L	100		83.5	70-130			
sec-Butylbenzene	23.2	0.50	ug/L	20		116	70-130			
tert-Butylbenzene	23.6	0.50	ug/L	20		118	70-130			
n-Butylbenzene	23.6	0.50	ug/L	20		118	70-130			
Carbon Disulfide	20.4	0.50	ug/L	20		102	70-130			
Carbon Tetrachloride	21.2	0.50	ug/L	20		106	75-125			
Chlorobenzene	22.6	0.50	ug/L	20		113	75-125			
Chloroethane	19.3	0.50	ug/L	20		96.7	75-125			
Chloroform	20.0	0.50	ug/L	20		100	75-125			
Chloromethane	18.7	0.50	ug/L	20		93.6	65-125			
2-Chlorotoluene	22.8	0.50	ug/L	20		114	70-130			
4-Chlorotoluene	22.2	0.50	ug/L	20		111	70-130			
1,2-Dibromo-3-chloropropane	19.3	1.0	ug/L	20		96.4	70-130			
Dibromochloromethane	20.9	0.50	ug/L	20		104	75-125			
1,2-Dibromoethane (EDB)	20.2	0.50	ug/L	20		101	70-130			
Dibromomethane	20.3	0.50	ug/L	20		102	70-130			

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1144 - EPA 5030B

LCS (B7J1144-BS1) Continued

Prepared & Analyzed: 10/11/17

1,3-Dichlorobenzene	21.9	0.50	ug/L	20	110	70-130
1,2-Dichlorobenzene	23.0	0.50	ug/L	20	115	70-130
1,4-Dichlorobenzene	21.8	0.50	ug/L	20	109	75-125
Dichlorodifluoromethane (R12)	18.8	0.50	ug/L	20	93.8	70-130
1,1-Dichloroethane	20.7	0.50	ug/L	20	103	70-125
1,2-Dichloroethane (EDC)	19.4	0.50	ug/L	20	97.0	75-125
1,1-Dichloroethylene	20.5	0.50	ug/L	20	103	70-130
trans-1,2-Dichloroethylene	21.9	0.50	ug/L	20	110	75-125
cis-1,2-Dichloroethylene	21.5	0.50	ug/L	20	107	75-125
1,2-Dichloropropane	21.0	0.50	ug/L	20	105	75-130
2,2-Dichloropropane	21.1	0.50	ug/L	20	105	70-130
1,3-Dichloropropane	20.3	0.50	ug/L	20	102	70-130
cis-1,3-Dichloropropylene	21.6	0.50	ug/L	20	108	75-125
trans-1,3-Dichloropropylene	20.8	0.50	ug/L	20	104	70-130
1,1-Dichloropropylene	22.4	0.50	ug/L	20	112	70-130
Diisopropyl ether (DIPE)	20.4	2.0	ug/L	20	102	70-130
Ethylbenzene	23.2	0.50	ug/L	20	116	75-125
Ethyl-tert-Butyl Ether (ETBE)	19.7	2.0	ug/L	20	98.4	70-130
Hexachlorobutadiene	23.7	1.0	ug/L	20	119	70-130
2-Hexanone (MBK)	18.6	10	ug/L	20	93.2	70-130
Isopropylbenzene	23.9	0.50	ug/L	20	120	70-130
4-Isopropyltoluene	22.2	1.0	ug/L	20	111	70-130
Methyl-tert-Butyl Ether (MTBE)	35.8	1.0	ug/L	40	89.4	75-125
Methylene Chloride	17.5	5.0	ug/L	20	87.6	75-130
4-Methyl-2-pentanone (MIBK)	19.0	10	ug/L	20	95.1	70-130
Naphthalene	23.6	2.0	ug/L	20	118	70-130
n-Propylbenzene	23.7	0.50	ug/L	20	118	70-130
Styrene	23.4	0.50	ug/L	20	117	70-130
1,1,1,2-Tetrachloroethane	21.8	0.50	ug/L	20	109	70-130
1,1,2,2-Tetrachloroethane	19.9	0.50	ug/L	20	99.4	70-135
Tetrachloroethylene (PCE)	23.7	0.50	ug/L	20	118	75-125

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1144 - EPA 5030B

LCS (B7J1144-BS1) Continued

Prepared & Analyzed: 10/11/17

Toluene	21.5	0.50	ug/L	20		108	75-125			
1,2,3-Trichlorobenzene	24.0	0.50	ug/L	20		120	70-130			
1,2,4-Trichlorobenzene	24.1	0.50	ug/L	20		121	70-130			
1,1,1-Trichloroethane	21.2	0.50	ug/L	20		106	75-125			
1,1,2-Trichloroethane	20.2	0.50	ug/L	20		101	75-125			
Trichloroethylene (TCE)	21.8	0.50	ug/L	20		109	75-125			
Trichlorofluoromethane (R11)	19.6	0.50	ug/L	20		97.9	70-130			
1,2,3-Trichloropropane	18.2	0.50	ug/L	20		90.8	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	19.0	0.50	ug/L	20		95.0	70-130			
1,3,5-Trimethylbenzene	23.0	0.50	ug/L	20		115	70-130			
1,2,4-Trimethylbenzene	22.9	0.50	ug/L	20		114	70-130			
Vinyl chloride	18.5	0.50	ug/L	20		92.3	75-125			
o-Xylene	21.4	0.50	ug/L	20		107	75-125			
m,p-Xylenes	43.5	1.0	ug/L	40		109	70-130			
Surrogate: 4-Bromofluorobenzene	49.0		ug/L	50		97.9	70-140			
Surrogate: Dibromofluoromethane	46.5		ug/L	50		93.1	70-140			
Surrogate: Toluene-d8	49.6		ug/L	50		99.2	70-140			

Matrix Spike (B7J1144-MS1)

Source: 7J05019-12 Prepared & Analyzed: 10/11/17

Acetone	35.8	10	ug/L	20	13.5	111	70-130			
tert-Amyl Methyl Ether (TAME)	19.0	2.0	ug/L	20		94.8	70-130			
Benzene	21.6	0.50	ug/L	20		108	70-130			
Bromobenzene	23.7	0.50	ug/L	20		118	70-130			
Bromochloromethane	21.8	0.50	ug/L	20		109	70-130			
Bromodichloromethane	20.9	0.50	ug/L	20		104	70-130			
Bromoform	22.0	0.50	ug/L	20		110	70-130			
Bromomethane	16.2	0.50	ug/L	20		81.0	70-130			
2-Butanone (MEK)	24.0	10	ug/L	20		120	70-130			
tert-Butyl alcohol (TBA)	94.5	10	ug/L	100		94.5	70-130			
sec-Butylbenzene	22.8	0.50	ug/L	20		114	70-130			
tert-Butylbenzene	23.6	0.50	ug/L	20	0.480	116	70-130			

Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1144 - EPA 5030B

Matrix Spike (B7J1144-MS1) Continued Source: 7J05019-12 Prepared & Analyzed: 10/11/17

n-Butylbenzene	22.8	0.50	ug/L	20		114	70-130			
Carbon Disulfide	19.5	0.50	ug/L	20		97.4	70-130			
Carbon Tetrachloride	20.8	0.50	ug/L	20		104	70-130			
Chlorobenzene	21.8	0.50	ug/L	20		109	70-130			
Chloroethane	18.2	0.50	ug/L	20		91.2	70-130			
Chloroform	20.3	0.50	ug/L	20		101	70-130			
Chloromethane	17.8	0.50	ug/L	20		88.8	70-130			
2-Chlorotoluene	23.1	0.50	ug/L	20		116	70-130			
4-Chlorotoluene	22.3	0.50	ug/L	20		112	70-130			
1,2-Dibromo-3-chloropropane	21.5	1.0	ug/L	20		107	70-130			
Dibromochloromethane	21.4	0.50	ug/L	20		107	70-130			
1,2-Dibromoethane (EDB)	21.4	0.50	ug/L	20		107	70-130			
Dibromomethane	21.4	0.50	ug/L	20		107	70-130			
1,3-Dichlorobenzene	22.3	0.50	ug/L	20		111	70-130			
1,2-Dichlorobenzene	23.7	0.50	ug/L	20		118	70-130			
1,4-Dichlorobenzene	22.0	0.50	ug/L	20		110	70-130			
Dichlorodifluoromethane (R12)	16.3	0.50	ug/L	20		81.3	70-130			
1,1-Dichloroethane	20.5	0.50	ug/L	20		103	70-130			
1,2-Dichloroethane (EDC)	19.9	0.50	ug/L	20		99.4	70-130			
1,1-Dichloroethylene	19.7	0.50	ug/L	20		98.6	70-130			
trans-1,2-Dichloroethylene	22.1	0.50	ug/L	20		110	70-130			
cis-1,2-Dichloroethylene	21.6	0.50	ug/L	20		108	70-130			
1,2-Dichloropropane	21.4	0.50	ug/L	20		107	70-130			
2,2-Dichloropropane	18.9	0.50	ug/L	20		94.4	70-130			
1,3-Dichloropropane	20.9	0.50	ug/L	20		104	70-130			
cis-1,3-Dichloropropylene	21.6	0.50	ug/L	20		108	70-130			
trans-1,3-Dichloropropylene	20.5	0.50	ug/L	20		103	70-130			
1,1-Dichloropropylene	22.2	0.50	ug/L	20		111	70-130			
Diisopropyl ether (DIPE)	21.4	2.0	ug/L	20		107	70-130			
Ethylbenzene	22.2	0.50	ug/L	20		111	70-130			
Ethyl-tert-Butyl Ether (ETBE)	20.7	2.0	ug/L	20		103	70-130			

Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs & OXYGENATES by GC/MS - Quality Control										
<i>Batch B7J1144 - EPA 5030B</i>										
Matrix Spike (B7J1144-MS1) Continued Source: 7J05019-12 Prepared & Analyzed: 10/11/17										
Hexachlorobutadiene	21.6	1.0	ug/L	20		108	70-130			
2-Hexanone (MBK)	18.1	10	ug/L	20		90.4	70-130			
Isopropylbenzene	23.8	0.50	ug/L	20		119	70-130			
4-Isopropyltoluene	22.1	1.0	ug/L	20		110	70-130			
Methyl-tert-Butyl Ether (MTBE)	42.0	1.0	ug/L	40	3.13	97.2	70-130			
Methylene Chloride	16.9	5.0	ug/L	20		84.6	70-130			
4-Methyl-2-pentanone (MIBK)	20.9	10	ug/L	20		104	70-130			
Naphthalene	23.4	2.0	ug/L	20		117	70-130			
n-Propylbenzene	23.8	0.50	ug/L	20		119	70-130			
Styrene	22.4	0.50	ug/L	20		112	70-130			
1,1,1,2-Tetrachloroethane	21.6	0.50	ug/L	20		108	70-130			
1,1,2,2-Tetrachloroethane	21.0	0.50	ug/L	20		105	70-130			
Tetrachloroethylene (PCE)	22.7	0.50	ug/L	20		113	70-130			
Toluene	21.4	0.50	ug/L	20		107	70-130			
1,2,3-Trichlorobenzene	23.9	0.50	ug/L	20		120	70-130			
1,2,4-Trichlorobenzene	23.4	0.50	ug/L	20		117	70-130			
1,1,1-Trichloroethane	20.5	0.50	ug/L	20		103	70-130			
1,1,2-Trichloroethane	22.2	0.50	ug/L	20		111	70-130			
Trichloroethylene (TCE)	21.6	0.50	ug/L	20		108	70-130			
Trichlorofluoromethane (R11)	18.1	0.50	ug/L	20		90.6	70-130			
1,2,3-Trichloropropane	20.6	0.50	ug/L	20		103	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	18.6	0.50	ug/L	20		93.0	70-130			
1,3,5-Trimethylbenzene	23.1	0.50	ug/L	20		116	70-130			
1,2,4-Trimethylbenzene	23.1	0.50	ug/L	20		116	70-130			
Vinyl chloride	16.9	0.50	ug/L	20		84.4	70-130			
o-Xylene	20.7	0.50	ug/L	20		104	70-130			
m,p-Xylenes	42.5	1.0	ug/L	40		106	70-130			
Surrogate: 4-Bromofluorobenzene	48.2		ug/L	50		96.3	70-140			
Surrogate: Dibromofluoromethane	45.6		ug/L	50		91.2	70-140			
Surrogate: Toluene-d8	46.9		ug/L	50		93.9	70-140			

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17

Analyte	Reporting Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1144 - EPA 5030B

Matrix Spike Dup (B7J1144-MSD1) Source: 7J05019-12 Prepared & Analyzed: 10/11/17

Acetone	33.4	10	ug/L	20	13.5	99.4	70-130	6.83	30	
tert-Amyl Methyl Ether (TAME)	17.8	2.0	ug/L	20		88.8	70-130	6.59	30	
Benzene	21.3	0.50	ug/L	20		107	70-130	1.44	30	
Bromobenzene	23.4	0.50	ug/L	20		117	70-130	1.32	30	
Bromochloromethane	20.8	0.50	ug/L	20		104	70-130	4.46	30	
Bromodichloromethane	20.2	0.50	ug/L	20		101	70-130	3.26	30	
Bromoform	21.3	0.50	ug/L	20		106	70-130	3.19	30	
Bromomethane	18.0	0.50	ug/L	20		89.8	70-130	10.4	30	
2-Butanone (MEK)	22.7	10	ug/L	20		113	70-130	5.53	30	
tert-Butyl alcohol (TBA)	91.7	10	ug/L	100		91.7	70-130	2.94	30	
sec-Butylbenzene	23.1	0.50	ug/L	20		116	70-130	1.35	30	
tert-Butylbenzene	23.6	0.50	ug/L	20	0.480	116	70-130	0.127	30	
n-Butylbenzene	22.9	0.50	ug/L	20		115	70-130	0.700	30	
Carbon Disulfide	20.1	0.50	ug/L	20		101	70-130	3.18	30	
Carbon Tetrachloride	20.9	0.50	ug/L	20		104	70-130	0.336	30	
Chlorobenzene	21.6	0.50	ug/L	20		108	70-130	0.645	30	
Chloroethane	19.7	0.50	ug/L	20		98.6	70-130	7.69	30	
Chloroform	20.2	0.50	ug/L	20		101	70-130	0.396	30	
Chloromethane	17.6	0.50	ug/L	20		88.2	70-130	0.678	30	
2-Chlorotoluene	22.6	0.50	ug/L	20		113	70-130	2.14	30	
4-Chlorotoluene	22.2	0.50	ug/L	20		111	70-130	0.494	30	
1,2-Dibromo-3-chloropropane	19.9	1.0	ug/L	20		99.5	70-130	7.68	30	
Dibromochloromethane	20.9	0.50	ug/L	20		104	70-130	2.51	30	
1,2-Dibromoethane (EDB)	20.9	0.50	ug/L	20		104	70-130	2.41	30	
Dibromomethane	20.6	0.50	ug/L	20		103	70-130	3.82	30	
1,3-Dichlorobenzene	22.3	0.50	ug/L	20		112	70-130	0.224	30	
1,2-Dichlorobenzene	23.7	0.50	ug/L	20		119	70-130	0.169	30	
1,4-Dichlorobenzene	22.1	0.50	ug/L	20		110	70-130	0.454	30	
Dichlorodifluoromethane (R12)	16.8	0.50	ug/L	20		83.8	70-130	3.03	30	
1,1-Dichloroethane	20.6	0.50	ug/L	20		103	70-130	0.438	30	
1,2-Dichloroethane (EDC)	19.1	0.50	ug/L	20		95.4	70-130	4.05	30	
1,1-Dichloroethylene	20.2	0.50	ug/L	20		101	70-130	2.31	30	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
VOCs & OXYGENATES by GC/MS - Quality Control										
<i>Batch B7J1144 - EPA 5030B</i>										
Matrix Spike Dup (B7J1144-MSD1) Source: 7J05019-12 Prepared & Analyzed: 10/11/17										
Continued										
trans-1,2-Dichloroethylene	21.2	0.50	ug/L	20		106	70-130	4.16	30	
cis-1,2-Dichloroethylene	21.7	0.50	ug/L	20		109	70-130	0.415	30	
1,2-Dichloropropane	20.6	0.50	ug/L	20		103	70-130	3.62	30	
2,2-Dichloropropane	18.8	0.50	ug/L	20		94.2	70-130	0.265	30	
1,3-Dichloropropane	20.3	0.50	ug/L	20		102	70-130	2.82	30	
cis-1,3-Dichloropropylene	21.2	0.50	ug/L	20		106	70-130	2.10	30	
trans-1,3-Dichloropropylene	19.6	0.50	ug/L	20		98.2	70-130	4.28	30	
1,1-Dichloropropylene	22.1	0.50	ug/L	20		111	70-130	0.496	30	
Diisopropyl ether (DIPE)	21.0	2.0	ug/L	20		105	70-130	1.93	30	
Ethylbenzene	22.0	0.50	ug/L	20		110	70-130	0.498	30	
Ethyl-tert-Butyl Ether (ETBE)	19.7	2.0	ug/L	20		98.6	70-130	4.80	30	
Hexachlorobutadiene	22.8	1.0	ug/L	20		114	70-130	5.32	30	
2-Hexanone (MBK)	17.5	10	ug/L	20		87.6	70-130	3.15	30	
Isopropylbenzene	23.7	0.50	ug/L	20		119	70-130	0.337	30	
4-Isopropyltoluene	22.3	1.0	ug/L	20		112	70-130	1.04	30	
Methyl-tert-Butyl Ether (MTBE)	40.8	1.0	ug/L	40	3.13	94.1	70-130	2.95	30	
Methylene Chloride	18.1	5.0	ug/L	20		90.6	70-130	6.85	30	
4-Methyl-2-pentanone (MIBK)	18.8	10	ug/L	20		93.8	70-130	10.7	30	
Naphthalene	25.8	2.0	ug/L	20		129	70-130	9.62	30	
n-Propylbenzene	23.5	0.50	ug/L	20		117	70-130	1.35	30	
Styrene	22.0	0.50	ug/L	20		110	70-130	1.76	30	
1,1,1,2-Tetrachloroethane	21.3	0.50	ug/L	20		107	70-130	1.26	30	
1,1,2,2-Tetrachloroethane	20.0	0.50	ug/L	20		100	70-130	5.02	30	
Tetrachloroethylene (PCE)	22.7	0.50	ug/L	20		113	70-130	0.00	30	
Toluene	21.2	0.50	ug/L	20		106	70-130	1.31	30	
1,2,3-Trichlorobenzene	25.5	0.50	ug/L	20		128	70-130	6.63	30	
1,2,4-Trichlorobenzene	24.7	0.50	ug/L	20		124	70-130	5.49	30	
1,1,1-Trichloroethane	20.8	0.50	ug/L	20		104	70-130	1.16	30	
1,1,2-Trichloroethane	20.7	0.50	ug/L	20		103	70-130	7.27	30	
Trichloroethylene (TCE)	22.0	0.50	ug/L	20		110	70-130	1.98	30	
Trichlorofluoromethane (R11)	18.6	0.50	ug/L	20		92.8	70-130	2.40	30	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1144 - EPA 5030B

Matrix Spike Dup (B7J1144-MSD1) Source: 7J05019-12 Prepared & Analyzed: 10/11/17

Continued

1,2,3-Trichloropropane	19.4	0.50	ug/L	20	96.9	70-130	5.91	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	17.4	0.50	ug/L	20	86.8	70-130	6.84	30	
1,3,5-Trimethylbenzene	23.0	0.50	ug/L	20	115	70-130	0.738	30	
1,2,4-Trimethylbenzene	22.8	0.50	ug/L	20	114	70-130	1.22	30	
Vinyl chloride	17.3	0.50	ug/L	20	86.6	70-130	2.69	30	
o-Xylene	20.6	0.50	ug/L	20	103	70-130	0.774	30	
m,p-Xylenes	42.3	1.0	ug/L	40	106	70-130	0.354	30	
Surrogate: 4-Bromofluorobenzene	47.7		ug/L	50	95.5	70-140			
Surrogate: Dibromofluoromethane	45.9		ug/L	50	91.9	70-140			
Surrogate: Toluene-d8	46.8		ug/L	50	93.6	70-140			

Batch B7J1227 - EPA 5030B

Blank (B7J1227-BLK1)

Prepared & Analyzed: 10/12/17

Acetone	<10	10	ug/L						
tert-Amyl Methyl Ether (TAME)	<2.0	2.0	ug/L						
Benzene	<0.50	0.50	ug/L						
Bromobenzene	<0.50	0.50	ug/L						
Bromochloromethane	<0.50	0.50	ug/L						
Bromodichloromethane	<0.50	0.50	ug/L						
Bromoform	<0.50	0.50	ug/L						
Bromomethane	<0.50	0.50	ug/L						
2-Butanone (MEK)	<10	10	ug/L						
tert-Butyl alcohol (TBA)	<10	10	ug/L						
sec-Butylbenzene	<0.50	0.50	ug/L						
tert-Butylbenzene	<0.50	0.50	ug/L						
n-Butylbenzene	<0.50	0.50	ug/L						
Carbon Disulfide	<0.50	0.50	ug/L						
Carbon Tetrachloride	<0.50	0.50	ug/L						
Chlorobenzene	<0.50	0.50	ug/L						
Chloroethane	<0.50	0.50	ug/L						

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1227 - EPA 5030B

Blank (B7J1227-BLK1) Continued

Prepared & Analyzed: 10/12/17

Chloroform	<0.50	0.50	ug/L							
Chloromethane	<0.50	0.50	ug/L							
2-Chlorotoluene	<0.50	0.50	ug/L							
4-Chlorotoluene	<0.50	0.50	ug/L							
1,2-Dibromo-3-chloropropane	<1.0	1.0	ug/L							
Dibromochloromethane	<0.50	0.50	ug/L							
1,2-Dibromoethane (EDB)	<0.50	0.50	ug/L							
Dibromomethane	<0.50	0.50	ug/L							
1,3-Dichlorobenzene	<0.50	0.50	ug/L							
1,2-Dichlorobenzene	<0.50	0.50	ug/L							
1,4-Dichlorobenzene	<0.50	0.50	ug/L							
Dichlorodifluoromethane (R12)	<0.50	0.50	ug/L							
1,1-Dichloroethane	<0.50	0.50	ug/L							
1,2-Dichloroethane (EDC)	<0.50	0.50	ug/L							
1,1-Dichloroethylene	<0.50	0.50	ug/L							
trans-1,2-Dichloroethylene	<0.50	0.50	ug/L							
cis-1,2-Dichloroethylene	<0.50	0.50	ug/L							
1,2-Dichloropropane	<0.50	0.50	ug/L							
2,2-Dichloropropane	<0.50	0.50	ug/L							
1,3-Dichloropropane	<0.50	0.50	ug/L							
cis-1,3-Dichloropropylene	<0.50	0.50	ug/L							
trans-1,3-Dichloropropylene	<0.50	0.50	ug/L							
1,1-Dichloropropylene	<0.50	0.50	ug/L							
Diisopropyl ether (DIPE)	<2.0	2.0	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Ethyl-tert-Butyl Ether (ETBE)	<2.0	2.0	ug/L							
Hexachlorobutadiene	<1.0	1.0	ug/L							
2-Hexanone (MBK)	<10	10	ug/L							
Isopropylbenzene	<0.50	0.50	ug/L							
4-Isopropyltoluene	<1.0	1.0	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L							

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1227 - EPA 5030B

Blank (B7J1227-BLK1) Continued

Prepared & Analyzed: 10/12/17

Methylene Chloride	<5.0	5.0	ug/L
4-Methyl-2-pentanone (MIBK)	<10	10	ug/L
Naphthalene	<2.0	2.0	ug/L
n-Propylbenzene	<0.50	0.50	ug/L
Styrene	<0.50	0.50	ug/L
1,1,1,2-Tetrachloroethane	<0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	<0.50	0.50	ug/L
Tetrachloroethylene (PCE)	<0.50	0.50	ug/L
Toluene	<0.50	0.50	ug/L
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L
1,2,4-Trichlorobenzene	<0.50	0.50	ug/L
1,1,1-Trichloroethane	<0.50	0.50	ug/L
1,1,2-Trichloroethane	<0.50	0.50	ug/L
Trichloroethylene (TCE)	<0.50	0.50	ug/L
Trichlorofluoromethane (R11)	<0.50	0.50	ug/L
1,2,3-Trichloropropane	<0.50	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	0.50	ug/L
1,3,5-Trimethylbenzene	<0.50	0.50	ug/L
1,2,4-Trimethylbenzene	<0.50	0.50	ug/L
Vinyl chloride	<0.50	0.50	ug/L
o-Xylene	<0.50	0.50	ug/L
m,p-Xylenes	<1.0	1.0	ug/L

Surrogate: 4-Bromofluorobenzene	57.3		ug/L	50	115	70-140
Surrogate: Dibromofluoromethane	47.4		ug/L	50	94.8	70-140
Surrogate: Toluene-d8	52.8		ug/L	50	106	70-140

LCS (B7J1227-BS1)

Prepared & Analyzed: 10/12/17

Acetone	16.2	10	ug/L	20	80.9	70-130
tert-Amyl Methyl Ether (TAME)	17.1	2.0	ug/L	20	85.3	70-130
Benzene	21.2	0.50	ug/L	20	106	75-125
Bromobenzene	23.7	0.50	ug/L	20	118	70-130

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1227 - EPA 5030B

LCS (B7J1227-BS1) Continued

Prepared & Analyzed: 10/12/17

Bromochloromethane	20.9	0.50	ug/L	20		104	70-130			
Bromodichloromethane	22.8	0.50	ug/L	20		114	75-125			
Bromoform	20.5	0.50	ug/L	20		103	75-125			
Bromomethane	17.1	0.50	ug/L	20		85.4	75-125			
2-Butanone (MEK)	19.3	10	ug/L	20		96.6	70-130			
tert-Butyl alcohol (TBA)	82.2	10	ug/L	100		82.2	70-130			
sec-Butylbenzene	23.7	0.50	ug/L	20		118	70-130			
tert-Butylbenzene	22.2	0.50	ug/L	20		111	70-130			
n-Butylbenzene	21.9	0.50	ug/L	20		110	70-130			
Carbon Disulfide	22.9	0.50	ug/L	20		114	70-130			
Carbon Tetrachloride	23.6	0.50	ug/L	20		118	75-125			
Chlorobenzene	22.2	0.50	ug/L	20		111	75-125			
Chloroethane	16.8	0.50	ug/L	20		83.8	75-125			
Chloroform	22.4	0.50	ug/L	20		112	75-125			
Chloromethane	17.2	0.50	ug/L	20		86.0	65-125			
2-Chlorotoluene	23.6	0.50	ug/L	20		118	70-130			
4-Chlorotoluene	23.2	0.50	ug/L	20		116	70-130			
1,2-Dibromo-3-chloropropane	16.4	1.0	ug/L	20		82.0	70-130			
Dibromochloromethane	22.4	0.50	ug/L	20		112	75-125			
1,2-Dibromoethane (EDB)	17.7	0.50	ug/L	20		88.5	70-130			
Dibromomethane	19.0	0.50	ug/L	20		95.0	70-130			
1,3-Dichlorobenzene	23.3	0.50	ug/L	20		117	70-130			
1,2-Dichlorobenzene	22.1	0.50	ug/L	20		110	70-130			
1,4-Dichlorobenzene	23.7	0.50	ug/L	20		118	75-125			
Dichlorodifluoromethane (R12)	22.0	0.50	ug/L	20		110	70-130			
1,1-Dichloroethane	22.2	0.50	ug/L	20		111	70-125			
1,2-Dichloroethane (EDC)	19.9	0.50	ug/L	20		99.4	75-125			
1,1-Dichloroethylene	21.9	0.50	ug/L	20		109	70-130			
trans-1,2-Dichloroethylene	22.6	0.50	ug/L	20		113	75-125			
cis-1,2-Dichloroethylene	22.2	0.50	ug/L	20		111	75-125			
1,2-Dichloropropane	21.1	0.50	ug/L	20		105	75-130			

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17

Analyte	Reporting Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1227 - EPA 5030B

LCS (B7J1227-BS1) Continued

Prepared & Analyzed: 10/12/17

2,2-Dichloropropane	21.6	0.50	ug/L	20		108	70-130			
1,3-Dichloropropane	18.2	0.50	ug/L	20		91.0	70-130			
cis-1,3-Dichloropropylene	18.9	0.50	ug/L	20		94.6	75-125			
trans-1,3-Dichloropropylene	17.8	0.50	ug/L	20		89.0	70-130			
1,1-Dichloropropylene	21.5	0.50	ug/L	20		107	70-130			
Diisopropyl ether (DIPE)	22.1	2.0	ug/L	20		111	70-130			
Ethylbenzene	20.7	0.50	ug/L	20		103	75-125			
Ethyl-tert-Butyl Ether (ETBE)	19.6	2.0	ug/L	20		98.0	70-130			
Hexachlorobutadiene	26.6	1.0	ug/L	20		133	70-130			**
2-Hexanone (MBK)	16.8	10	ug/L	20		84.2	70-130			
Isopropylbenzene	23.3	0.50	ug/L	20		116	70-130			
4-Isopropyltoluene	23.7	1.0	ug/L	20		118	70-130			
Methyl-tert-Butyl Ether (MTBE)	33.5	1.0	ug/L	40		83.7	75-125			
Methylene Chloride	18.6	5.0	ug/L	20		93.1	75-130			
4-Methyl-2-pentanone (MIBK)	21.4	10	ug/L	20		107	70-130			
Naphthalene	17.3	2.0	ug/L	20		86.3	70-130			
n-Propylbenzene	23.2	0.50	ug/L	20		116	70-130			
Styrene	21.9	0.50	ug/L	20		109	70-130			
1,1,1,2-Tetrachloroethane	21.7	0.50	ug/L	20		108	70-130			
1,1,2,2-Tetrachloroethane	15.6	0.50	ug/L	20		77.8	70-135			
Tetrachloroethylene (PCE)	21.5	0.50	ug/L	20		107	75-125			
Toluene	22.1	0.50	ug/L	20		110	75-125			
1,2,3-Trichlorobenzene	21.4	0.50	ug/L	20		107	70-130			
1,2,4-Trichlorobenzene	22.8	0.50	ug/L	20		114	70-130			
1,1,1-Trichloroethane	23.6	0.50	ug/L	20		118	75-125			
1,1,2-Trichloroethane	17.5	0.50	ug/L	20		87.6	75-125			
Trichloroethylene (TCE)	21.4	0.50	ug/L	20		107	75-125			
Trichlorofluoromethane (R11)	18.6	0.50	ug/L	20		92.8	70-130			
1,2,3-Trichloropropane	16.8	0.50	ug/L	20		84.0	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	21.0	0.50	ug/L	20		105	70-130			
1,3,5-Trimethylbenzene	23.3	0.50	ug/L	20		117	70-130			

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1227 - EPA 5030B

LCS (B7J1227-BS1) Continued

Prepared & Analyzed: 10/12/17

1,2,4-Trimethylbenzene	22.5	0.50	ug/L	20	112	70-130				
Vinyl chloride	18.8	0.50	ug/L	20	94.2	75-125				
o-Xylene	22.5	0.50	ug/L	20	113	75-125				
m,p-Xylenes	44.6	1.0	ug/L	40	111	70-130				
Surrogate: 4-Bromofluorobenzene	50.7		ug/L	50	101	70-140				
Surrogate: Dibromofluoromethane	46.8		ug/L	50	93.6	70-140				
Surrogate: Toluene-d8	48.0		ug/L	50	96.0	70-140				

Matrix Spike (B7J1227-MS1)

Source: 7J06001-12 Prepared: 10/12/17 Analyzed: 10/13/17

Acetone	15.1	10	ug/L	20	2.36	63.8	70-130			QM-07
tert-Amyl Methyl Ether (TAME)	15.8	2.0	ug/L	20	<2.0	78.9	70-130			
Benzene	17.9	0.50	ug/L	20	<0.50	89.6	70-130			
Bromobenzene	21.3	0.50	ug/L	20	<0.50	106	70-130			
Bromochloromethane	16.7	0.50	ug/L	20	<0.50	83.3	70-130			
Bromodichloromethane	20.1	0.50	ug/L	20	<0.50	101	70-130			
Bromoform	22.1	0.50	ug/L	20	<0.50	110	70-130			
Bromomethane	23.4	0.50	ug/L	20	<0.50	117	70-130			
2-Butanone (MEK)	16.8	10	ug/L	20	<10	84.2	70-130			
tert-Butyl alcohol (TBA)	90.0	10	ug/L	100	<10	90.0	70-130			
sec-Butylbenzene	21.8	0.50	ug/L	20	<0.50	109	70-130			
tert-Butylbenzene	23.3	0.50	ug/L	20	<0.50	116	70-130			
n-Butylbenzene	18.8	0.50	ug/L	20	<0.50	93.8	70-130			
Carbon Disulfide	23.8	0.50	ug/L	20	<0.50	119	70-130			
Carbon Tetrachloride	24.0	0.50	ug/L	20	<0.50	120	70-130			
Chlorobenzene	23.4	0.50	ug/L	20	<0.50	117	70-130			
Chloroethane	21.2	0.50	ug/L	20	<0.50	106	70-130			
Chloroform	21.1	0.50	ug/L	20	<0.50	106	70-130			
Chloromethane	18.1	0.50	ug/L	20	<0.50	90.5	70-130			
2-Chlorotoluene	22.3	0.50	ug/L	20	<0.50	111	70-130			
4-Chlorotoluene	20.2	0.50	ug/L	20	<0.50	101	70-130			
1,2-Dibromo-3-chloropropane	15.8	1.0	ug/L	20	<1.0	79.0	70-130			
Dibromochloromethane	24.5	0.50	ug/L	20	<0.50	123	70-130			

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1227 - EPA 5030B

Matrix Spike (B7J1227-MS1) Continued Source: 7J06001-12 Prepared: 10/12/17 Analyzed: 10/13/17

1,2-Dibromoethane (EDB)	17.4	0.50	ug/L	20	<0.50	87.1	70-130			
Dibromomethane	21.5	0.50	ug/L	20	<0.50	107	70-130			
1,3-Dichlorobenzene	20.0	0.50	ug/L	20	<0.50	100	70-130			
1,2-Dichlorobenzene	19.4	0.50	ug/L	20	<0.50	96.8	70-130			
1,4-Dichlorobenzene	20.8	0.50	ug/L	20	<0.50	104	70-130			
Dichlorodifluoromethane (R12)	23.4	0.50	ug/L	20	<0.50	117	70-130			
1,1-Dichloroethane	20.8	0.50	ug/L	20	<0.50	104	70-130			
1,2-Dichloroethane (EDC)	19.2	0.50	ug/L	20	<0.50	96.1	70-130			
1,1-Dichloroethylene	23.3	0.50	ug/L	20	<0.50	116	70-130			
trans-1,2-Dichloroethylene	19.6	0.50	ug/L	20	<0.50	98.0	70-130			
cis-1,2-Dichloroethylene	18.7	0.50	ug/L	20	<0.50	93.6	70-130			
1,2-Dichloropropane	17.6	0.50	ug/L	20	<0.50	87.8	70-130			
2,2-Dichloropropane	20.1	0.50	ug/L	20	<0.50	100	70-130			
1,3-Dichloropropane	19.4	0.50	ug/L	20	<0.50	97.0	70-130			
cis-1,3-Dichloropropylene	19.3	0.50	ug/L	20	<0.50	96.6	70-130			
trans-1,3-Dichloropropylene	16.1	0.50	ug/L	20	<0.50	80.6	70-130			
1,1-Dichloropropylene	18.5	0.50	ug/L	20	<0.50	92.5	70-130			
Diisopropyl ether (DIPE)	19.6	2.0	ug/L	20	<2.0	98.0	70-130			
Ethylbenzene	22.5	0.50	ug/L	20	<0.50	112	70-130			
Ethyl-tert-Butyl Ether (ETBE)	16.6	2.0	ug/L	20	<2.0	82.8	70-130			
Hexachlorobutadiene	23.0	1.0	ug/L	20	<1.0	115	70-130			
2-Hexanone (MBK)	16.1	10	ug/L	20	<10	80.4	70-130			
Isopropylbenzene	22.2	0.50	ug/L	20	<0.50	111	70-130			
4-Isopropyltoluene	21.1	1.0	ug/L	20	<1.0	106	70-130			
Methyl-tert-Butyl Ether (MTBE)	35.0	1.0	ug/L	40	<1.0	87.4	70-130			
Methylene Chloride	16.5	5.0	ug/L	20	<5.0	82.6	70-130			
4-Methyl-2-pentanone (MIBK)	16.7	10	ug/L	20	<10	83.4	70-130			
Naphthalene	21.6	2.0	ug/L	20	<2.0	108	70-130			
n-Propylbenzene	22.0	0.50	ug/L	20	<0.50	110	70-130			
Styrene	22.4	0.50	ug/L	20	<0.50	112	70-130			
1,1,1,2-Tetrachloroethane	24.1	0.50	ug/L	20	<0.50	121	70-130			

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1227 - EPA 5030B

Matrix Spike (B7J1227-MS1) Continued Source: 7J06001-12 Prepared: 10/12/17 Analyzed: 10/13/17

1,1,2,2-Tetrachloroethane	16.7	0.50	ug/L	20	<0.50	83.6	70-130			
Tetrachloroethylene (PCE)	21.4	0.50	ug/L	20	<0.50	107	70-130			
Toluene	22.7	0.50	ug/L	20	<0.50	114	70-130			
1,2,3-Trichlorobenzene	15.7	0.50	ug/L	20	<0.50	78.6	70-130			
1,2,4-Trichlorobenzene	17.1	0.50	ug/L	20	<0.50	85.4	70-130			
1,1,1-Trichloroethane	22.5	0.50	ug/L	20	<0.50	113	70-130			
1,1,2-Trichloroethane	18.5	0.50	ug/L	20	<0.50	92.3	70-130			
Trichloroethylene (TCE)	18.4	0.50	ug/L	20	<0.50	91.8	70-130			
Trichlorofluoromethane (R11)	22.7	0.50	ug/L	20	<0.50	114	70-130			
1,2,3-Trichloropropane	18.0	0.50	ug/L	20	<0.50	90.0	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	22.5	0.50	ug/L	20	<0.50	112	70-130			
1,3,5-Trimethylbenzene	22.3	0.50	ug/L	20	<0.50	112	70-130			
1,2,4-Trimethylbenzene	22.7	0.50	ug/L	20	<0.50	114	70-130			
Vinyl chloride	18.1	0.50	ug/L	20	<0.50	90.4	70-130			
o-Xylene	23.7	0.50	ug/L	20	<0.50	118	70-130			
m,p-Xylenes	44.4	1.0	ug/L	40	<1.0	111	70-130			
Surrogate: 4-Bromofluorobenzene	48.3		ug/L	50		96.5	70-140			
Surrogate: Dibromofluoromethane	45.3		ug/L	50		90.6	70-140			
Surrogate: Toluene-d8	55.0		ug/L	50		110	70-140			

Matrix Spike Dup (B7J1227-MSD1) Source: 7J06001-12 Prepared: 10/12/17 Analyzed: 10/13/17

Acetone	16.4	10	ug/L	20	2.36	70.0	70-130	7.87	30	
tert-Amyl Methyl Ether (TAME)	17.5	2.0	ug/L	20	<2.0	87.4	70-130	10.2	30	
Benzene	18.9	0.50	ug/L	20	<0.50	94.6	70-130	5.32	30	
Bromobenzene	20.4	0.50	ug/L	20	<0.50	102	70-130	4.41	30	
Bromochloromethane	17.5	0.50	ug/L	20	<0.50	87.6	70-130	5.03	30	
Bromodichloromethane	21.3	0.50	ug/L	20	<0.50	106	70-130	5.65	30	
Bromoform	20.2	0.50	ug/L	20	<0.50	101	70-130	8.84	30	
Bromomethane	22.2	0.50	ug/L	20	<0.50	111	70-130	5.57	30	
2-Butanone (MEK)	17.3	10	ug/L	20	<10	86.3	70-130	2.40	30	
tert-Butyl alcohol (TBA)	96.0	10	ug/L	100	<10	96.0	70-130	6.50	30	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
VOCs & OXYGENATES by GC/MS - Quality Control										
<i>Batch B7J1227 - EPA 5030B</i>										
Matrix Spike Dup (B7J1227-MSD1) Source: 7J06001-12 Prepared: 10/12/17 Analyzed: 10/13/17										
Continued										
sec-Butylbenzene	21.5	0.50	ug/L	20	<0.50	108	70-130	1.52	30	
tert-Butylbenzene	22.6	0.50	ug/L	20	<0.50	113	70-130	3.05	30	
n-Butylbenzene	19.9	0.50	ug/L	20	<0.50	99.6	70-130	6.05	30	
Carbon Disulfide	22.4	0.50	ug/L	20	<0.50	112	70-130	6.06	30	
Carbon Tetrachloride	24.0	0.50	ug/L	20	<0.50	120	70-130	0.167	30	
Chlorobenzene	22.5	0.50	ug/L	20	<0.50	112	70-130	4.10	30	
Chloroethane	24.9	0.50	ug/L	20	<0.50	124	70-130	16.1	30	
Chloroform	21.5	0.50	ug/L	20	<0.50	108	70-130	1.88	30	
Chloromethane	18.2	0.50	ug/L	20	<0.50	91.2	70-130	0.716	30	
2-Chlorotoluene	21.2	0.50	ug/L	20	<0.50	106	70-130	4.82	30	
4-Chlorotoluene	20.0	0.50	ug/L	20	<0.50	99.9	70-130	1.29	30	
1,2-Dibromo-3-chloropropane	20.6	1.0	ug/L	20	<1.0	103	70-130	26.4	30	
Dibromochloromethane	22.4	0.50	ug/L	20	<0.50	112	70-130	8.81	30	
1,2-Dibromoethane (EDB)	16.7	0.50	ug/L	20	<0.50	83.6	70-130	4.04	30	
Dibromomethane	17.8	0.50	ug/L	20	<0.50	89.0	70-130	18.7	30	
1,3-Dichlorobenzene	20.5	0.50	ug/L	20	<0.50	102	70-130	2.42	30	
1,2-Dichlorobenzene	19.7	0.50	ug/L	20	<0.50	98.6	70-130	1.79	30	
1,4-Dichlorobenzene	20.6	0.50	ug/L	20	<0.50	103	70-130	0.725	30	
Dichlorodifluoromethane (R12)	23.0	0.50	ug/L	20	<0.50	115	70-130	1.73	30	
1,1-Dichloroethane	21.1	0.50	ug/L	20	<0.50	106	70-130	1.24	30	
1,2-Dichloroethane (EDC)	20.5	0.50	ug/L	20	<0.50	103	70-130	6.64	30	
1,1-Dichloroethylene	21.5	0.50	ug/L	20	<0.50	107	70-130	8.08	30	
trans-1,2-Dichloroethylene	20.1	0.50	ug/L	20	<0.50	100	70-130	2.37	30	
cis-1,2-Dichloroethylene	19.5	0.50	ug/L	20	<0.50	97.4	70-130	3.98	30	
1,2-Dichloropropane	18.5	0.50	ug/L	20	<0.50	92.5	70-130	5.27	30	
2,2-Dichloropropane	20.6	0.50	ug/L	20	<0.50	103	70-130	2.21	30	
1,3-Dichloropropane	17.8	0.50	ug/L	20	<0.50	89.0	70-130	8.60	30	
cis-1,3-Dichloropropylene	17.4	0.50	ug/L	20	<0.50	86.8	70-130	10.6	30	
trans-1,3-Dichloropropylene	16.4	0.50	ug/L	20	<0.50	82.0	70-130	1.72	30	
1,1-Dichloropropylene	19.4	0.50	ug/L	20	<0.50	97.1	70-130	4.85	30	
Diisopropyl ether (DIPE)	20.6	2.0	ug/L	20	<2.0	103	70-130	4.78	30	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
VOCs & OXYGENATES by GC/MS - Quality Control										
<i>Batch B7J1227 - EPA 5030B</i>										
Matrix Spike Dup (B7J1227-MSD1) Source: 7J06001-12 Prepared: 10/12/17 Analyzed: 10/13/17										
Continued										
Ethylbenzene	21.7	0.50	ug/L	20	<0.50	109	70-130	3.39	30	
Ethyl-tert-Butyl Ether (ETBE)	17.4	2.0	ug/L	20	<2.0	87.0	70-130	5.06	30	
Hexachlorobutadiene	23.5	1.0	ug/L	20	<1.0	117	70-130	2.07	30	
2-Hexanone (MBK)	16.1	10	ug/L	20	<10	80.7	70-130	0.372	30	
Isopropylbenzene	21.1	0.50	ug/L	20	<0.50	106	70-130	5.04	30	
4-Isopropyltoluene	21.3	1.0	ug/L	20	<1.0	106	70-130	0.708	30	
Methyl-tert-Butyl Ether (MTBE)	35.0	1.0	ug/L	40	<1.0	87.4	70-130	0.0286	30	
Methylene Chloride	16.8	5.0	ug/L	20	<5.0	84.0	70-130	1.68	30	
4-Methyl-2-pentanone (MIBK)	16.9	10	ug/L	20	<10	84.4	70-130	1.19	30	
Naphthalene	22.0	2.0	ug/L	20	<2.0	110	70-130	1.88	30	
n-Propylbenzene	21.2	0.50	ug/L	20	<0.50	106	70-130	3.33	30	
Styrene	21.9	0.50	ug/L	20	<0.50	109	70-130	2.39	30	
1,1,1,2-Tetrachloroethane	23.0	0.50	ug/L	20	<0.50	115	70-130	4.76	30	
1,1,2,2-Tetrachloroethane	15.5	0.50	ug/L	20	<0.50	77.7	70-130	7.32	30	
Tetrachloroethylene (PCE)	22.5	0.50	ug/L	20	<0.50	112	70-130	4.97	30	
Toluene	21.9	0.50	ug/L	20	<0.50	109	70-130	3.86	30	
1,2,3-Trichlorobenzene	18.5	0.50	ug/L	20	<0.50	92.6	70-130	16.3	30	
1,2,4-Trichlorobenzene	19.3	0.50	ug/L	20	<0.50	96.3	70-130	12.0	30	
1,1,1-Trichloroethane	23.0	0.50	ug/L	20	<0.50	115	70-130	1.93	30	
1,1,2-Trichloroethane	17.6	0.50	ug/L	20	<0.50	88.0	70-130	4.83	30	
Trichloroethylene (TCE)	18.8	0.50	ug/L	20	<0.50	94.0	70-130	2.26	30	
Trichlorofluoromethane (R11)	24.9	0.50	ug/L	20	<0.50	125	70-130	9.28	30	
1,2,3-Trichloropropane	17.3	0.50	ug/L	20	<0.50	86.4	70-130	4.08	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	20.6	0.50	ug/L	20	<0.50	103	70-130	8.72	30	
1,3,5-Trimethylbenzene	22.2	0.50	ug/L	20	<0.50	111	70-130	0.494	30	
1,2,4-Trimethylbenzene	23.1	0.50	ug/L	20	<0.50	115	70-130	1.48	30	
Vinyl chloride	17.4	0.50	ug/L	20	<0.50	87.2	70-130	3.55	30	
o-Xylene	22.8	0.50	ug/L	20	<0.50	114	70-130	3.78	30	
m,p-Xylenes	46.7	1.0	ug/L	40	<1.0	117	70-130	4.92	30	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1227 - EPA 5030B

Matrix Spike Dup (B7J1227-MSD1) Source: 7J06001-12 Prepared: 10/12/17 Analyzed: 10/13/17
Continued

Surrogate: 4-Bromofluorobenzene	46.9		ug/L	50		93.7	70-140			
Surrogate: Dibromofluoromethane	48.6		ug/L	50		97.3	70-140			
Surrogate: Toluene-d8	54.8		ug/L	50		110	70-140			

Diesel Range Organics by GC/FID - Quality Control

Batch B7J1141 - EPA 3510C

Blank (B7J1141-BLK1) Prepared & Analyzed: 10/11/17

Diesel Range Organics as Diesel	<0.10	0.10	mg/L							
Surrogate: o-Terphenyl	0.0580		mg/L	0.040		145	50-150			

LCS (B7J1141-BS1) Prepared & Analyzed: 10/11/17

Diesel Range Organics as Diesel	0.858	0.10	mg/L	0.80		107	75-125			
Surrogate: o-Terphenyl	0.0551		mg/L	0.040		138	50-150			

LCS Dup (B7J1141-BSD1) Prepared & Analyzed: 10/11/17

Diesel Range Organics as Diesel	0.696	0.10	mg/L	0.80		87.0	75-125	20.9	30	
Surrogate: o-Terphenyl	0.0545		mg/L	0.040		136	50-150			

Gasoline Range Organics by GC/FID - Quality Control

Batch B7J1143 - EPA 5030B

Blank (B7J1143-BLK1) Prepared & Analyzed: 10/11/17

Gasoline Range Organics (GRO)	<100	100	ug/L							
Surrogate: a,a,a-Trifluorotoluene	46.4		ug/L	50		92.9	80-120			

LCS (B7J1143-BS1) Prepared & Analyzed: 10/11/17

Gasoline Range Organics (GRO)	449	100	ug/L	500		89.7	75-125			
Surrogate: a,a,a-Trifluorotoluene	54.6		ug/L	50		109	80-120			

LCS Dup (B7J1143-BSD1) Prepared & Analyzed: 10/11/17

Gasoline Range Organics (GRO)	419	100	ug/L	500		83.8	75-125	6.83	30	
Surrogate: a,a,a-Trifluorotoluene	52.2		ug/L	50		104	80-120			

Batch B7J1228 - EPA 5030B

Blank (B7J1228-BLK1) Prepared & Analyzed: 10/12/17

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17

Analyte	Reporting Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Gasoline Range Organics by GC/FID - Quality Control										
<i>Batch B7J1228 - EPA 5030B</i>										
Gasoline Range Organics (GRO)	<100	100	ug/L							
Surrogate: a,a,a-Trifluorotoluene	48.4		ug/L	50		96.7	80-120			
LCS (B7J1228-BS1)				Prepared & Analyzed: 10/12/17						
Gasoline Range Organics (GRO)	402	100	ug/L	500		80.4	75-125			
Surrogate: a,a,a-Trifluorotoluene	46.3		ug/L	50		92.6	80-120			
LCS Dup (B7J1228-BSD1)				Prepared & Analyzed: 10/12/17						
Gasoline Range Organics (GRO)	454	100	ug/L	500		90.8	75-125	12.2	30	
Surrogate: a,a,a-Trifluorotoluene	49.1		ug/L	50		98.2	80-120			

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332322
Date Received: 10/06/17
Date Reported: 10/18/17

Special Notes

[1] = ** : Exceeds upper control limit.

[2] = QM-07 : The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Viorel Vasile
Operations Manager



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

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A.A. COC No.: 13203

70049781

Page 1 of 1

Client: <u>APEX-SGI</u>	Project Name / No.: <u>DESP Norwalk</u>	Sampler's Name: <u>DAVID Lubben</u>
Project Manager: <u>DAN SWERSSON</u>	Site Address: <u>15306 Norwalk Blvd</u>	Sampler's Signature: <u>[Signature]</u>
Phone: <u>1-562-597-1055</u>	City: <u>Norwalk</u>	P.O. No.: <u>-</u>
Fax: <u>1-562-597-1070</u>	State & Zip: <u>Ca 90650</u>	Quote No.: <u>-</u>

TAT Turnaround Codes **

- ① = Same Day Rush
- ② = 24 Hour Rush
- ③ = 48 Hour Rush
- ④ = 72 Hour Rush
- ⑤ = 5 Day Rush
- X = 10 Working Days (Standard TAT)

ANALYSIS REQUESTED (Test Name)

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	Please enter the TAT Turnaround Codes ** below										Special Instructions		
						SOLPH-D	S260B	SOLPH-6										
QCTB-1	7506001	-01	10-5-17	600	GW	2		X										
QCEB-1		-02	10-5-17	815	GW	2		X										
GW-2		-03	10-5-17	850	GW	7	X	X	X									
Gmw-16		-04	10-5-17	935	GW	7	X	X	X									
GW-6		-05	10-5-17	1015	GW	7	X	X	X									
DUP-5		-06	10-5-17	XXXX	GW	7	X	X	X									
TF-8		-07	10-5-17	1055	GW	7	X	X	X									
Gmw-31		-08	10-5-17	1130	GW	7	X	X	X									SAMPLE INTEGRITY INTACT Y N TEMP 4°C
Gmw-15		-09	10-5-17	1205	GW	7	X	X	X									
TF-24		-10	10-5-17	1240	GW	7	X	X	C									
GW-13		-11	10-5-17	140	GW	7	X	X	X									
MW-22 (mid)		-12	10-5-17	215	GW	7	X	X	X									
TF-9R		-13	10-5-17	250	GW	7	X	X	X									
DUP-6		-14	10-5-17	XXXX	GW	7	X	X	X									

For Laboratory Use REVIEWED Date <u>10/6/17</u> Time <u>1215</u> TAT <u>N</u> Days Sign: <u>[Signature]</u>	Relinquished by <u>[Signature]</u>	Date <u>10-6-17</u>	Time <u>8:40</u>	Received by <u>[Signature]</u>
	Relinquished by	Date <u>10-6-17</u>	Time <u>10:25</u>	Received by <u>[Signature]</u>
	Relinquished by	Date	Time	Received by

A.A. Project No.: AS3332322/7506001

Note: By relinquishing samples to American Analytics, client agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analytics.



9765 Eton Avenue
Chatsworth
California 91311
Tel: (818) 998-5547
Fax: (818) 998-7258

October 18, 2017

Neil Irish

The Source Group, Inc. (SH)
1962 Freeman Ave.
Signal Hill, CA 90755

**Re : DFSP Norwalk GW Sampling / 04-NDLA-013
A5332325 / 7J11015**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 10/11/17 13:07 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytics.

Sincerely,

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
<u>8260B+OXY+TPHG</u>					
QCTB-1	7J11015-01	Water	5	10/09/17 06:00	10/11/17 13:07
QCEB-1	7J11015-02	Water	5	10/09/17 08:30	10/11/17 13:07
QCEB-1	7J11015-13	Water	5	10/10/17 08:00	10/11/17 13:07
<u>8260B+OXYGENATES</u>					
GMW-17R	7J11015-03	Water	5	10/09/17 09:20	10/11/17 13:07
TF-21	7J11015-04	Water	5	10/09/17 10:00	10/11/17 13:07
GMW-58	7J11015-05	Water	5	10/09/17 10:40	10/11/17 13:07
GMW-60	7J11015-06	Water	5	10/09/17 11:30	10/11/17 13:07
GMW-61	7J11015-07	Water	5	10/09/17 12:10	10/11/17 13:07
GW-15	7J11015-08	Water	5	10/09/17 12:45	10/11/17 13:07
GMW-59	7J11015-09	Water	5	10/09/17 13:20	10/11/17 13:07
GMW-48	7J11015-10	Water	5	10/09/17 13:55	10/11/17 13:07
DUP-7	7J11015-11	Water	5	10/09/17 00:00	10/11/17 13:07
GMW-35R	7J11015-12	Water	5	10/09/17 14:30	10/11/17 13:07
TF-20R	7J11015-14	Water	5	10/10/17 08:50	10/11/17 13:07
PZ-3	7J11015-15	Water	5	10/10/17 10:00	10/11/17 13:07
GMW-7	7J11015-16	Water	5	10/10/17 10:30	10/11/17 13:07

Diesel Range Organics 8015M

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
GMW-17R	7J11015-03	Water	5	10/09/17 09:20	10/11/17 13:07
TF-21	7J11015-04	Water	5	10/09/17 10:00	10/11/17 13:07
GMW-58	7J11015-05	Water	5	10/09/17 10:40	10/11/17 13:07
GMW-60	7J11015-06	Water	5	10/09/17 11:30	10/11/17 13:07
GMW-61	7J11015-07	Water	5	10/09/17 12:10	10/11/17 13:07
GW-15	7J11015-08	Water	5	10/09/17 12:45	10/11/17 13:07
GMW-59	7J11015-09	Water	5	10/09/17 13:20	10/11/17 13:07
GMW-48	7J11015-10	Water	5	10/09/17 13:55	10/11/17 13:07
DUP-7	7J11015-11	Water	5	10/09/17 00:00	10/11/17 13:07
GMW-35R	7J11015-12	Water	5	10/09/17 14:30	10/11/17 13:07
TF-20R	7J11015-14	Water	5	10/10/17 08:50	10/11/17 13:07
PZ-3	7J11015-15	Water	5	10/10/17 10:00	10/11/17 13:07
GMW-7	7J11015-16	Water	5	10/10/17 10:30	10/11/17 13:07

Gasoline Range Organics 8015M

GMW-17R	7J11015-03	Water	5	10/09/17 09:20	10/11/17 13:07
TF-21	7J11015-04	Water	5	10/09/17 10:00	10/11/17 13:07
GMW-58	7J11015-05	Water	5	10/09/17 10:40	10/11/17 13:07
GMW-60	7J11015-06	Water	5	10/09/17 11:30	10/11/17 13:07
GMW-61	7J11015-07	Water	5	10/09/17 12:10	10/11/17 13:07
GW-15	7J11015-08	Water	5	10/09/17 12:45	10/11/17 13:07

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
GMW-59	7J11015-09	Water	5	10/09/17 13:20	10/11/17 13:07
GMW-48	7J11015-10	Water	5	10/09/17 13:55	10/11/17 13:07
DUP-7	7J11015-11	Water	5	10/09/17 00:00	10/11/17 13:07
GMW-35R	7J11015-12	Water	5	10/09/17 14:30	10/11/17 13:07
TF-20R	7J11015-14	Water	5	10/10/17 08:50	10/11/17 13:07
PZ-3	7J11015-15	Water	5	10/10/17 10:00	10/11/17 13:07
GMW-7	7J11015-16	Water	5	10/10/17 10:30	10/11/17 13:07

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs, OXY & TPH Gasoline by GC/MS

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/09/17	10/09/17	10/10/17	
Date Prepared:	10/13/17	10/13/17	10/13/17	
Date Analyzed:	10/13/17	10/13/17	10/13/17	
AA ID No:	7J11015-01	7J11015-02	7J11015-13	
Client ID No:	QCTB-1	QCEB-1	QCEB-1	
Matrix:	Water	Water	Water	
Dilution Factor:	1	1	1	MRL

8260B+OXY+TPHG (EPA 8260B)

Acetone	<10	<10	<10	10
tert-Amyl Methyl Ether (TAME)	<2.0	<2.0	<2.0	2.0
Benzene	<0.50	<0.50	<0.50	0.50
Bromobenzene	<0.50	<0.50	<0.50	0.50
Bromochloromethane	<0.50	<0.50	<0.50	0.50
Bromodichloromethane	<0.50	<0.50	<0.50	0.50
Bromoform	<0.50	<0.50	<0.50	0.50
Bromomethane	<0.50	<0.50	<0.50	0.50
2-Butanone (MEK)	<10	<10	<10	10
tert-Butyl alcohol (TBA)	<10	<10	<10	10
sec-Butylbenzene	<0.50	<0.50	<0.50	0.50
tert-Butylbenzene	<0.50	<0.50	<0.50	0.50
n-Butylbenzene	<0.50	<0.50	<0.50	0.50
Carbon Disulfide	<0.50	<0.50	<0.50	0.50
Carbon Tetrachloride	<0.50	<0.50	<0.50	0.50
Chlorobenzene	<0.50	<0.50	<0.50	0.50
Chloroethane	<0.50	<0.50	<0.50	0.50
Chloroform	<0.50	<0.50	<0.50	0.50
Chloromethane	<0.50	<0.50	<0.50	0.50
2-Chlorotoluene	<0.50	<0.50	<0.50	0.50
4-Chlorotoluene	<0.50	<0.50	<0.50	0.50
1,2-Dibromo-3-chloropropane	<1.0	<1.0	<1.0	1.0
Dibromochloromethane	<0.50	<0.50	<0.50	0.50
1,2-Dibromoethane (EDB)	<0.50	<0.50	<0.50	0.50
Dibromomethane	<0.50	<0.50	<0.50	0.50
1,3-Dichlorobenzene	<0.50	<0.50	<0.50	0.50
1,2-Dichlorobenzene	<0.50	<0.50	<0.50	0.50

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs, OXY & TPH Gasoline by GC/MS

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/09/17	10/09/17	10/10/17	
Date Prepared:	10/13/17	10/13/17	10/13/17	
Date Analyzed:	10/13/17	10/13/17	10/13/17	
AA ID No:	7J11015-01	7J11015-02	7J11015-13	
Client ID No:	QCTB-1	QCEB-1	QCEB-1	
Matrix:	Water	Water	Water	
Dilution Factor:	1	1	1	MRL

8260B+OXY+TPHG (EPA 8260B) (continued)

1,4-Dichlorobenzene	<0.50	<0.50	<0.50	0.50
Dichlorodifluoromethane (R12)	<0.50	<0.50	<0.50	0.50
1,1-Dichloroethane	<0.50	<0.50	<0.50	0.50
1,2-Dichloroethane (EDC)	<0.50	<0.50	<0.50	0.50
1,1-Dichloroethylene	<0.50	<0.50	<0.50	0.50
trans-1,2-Dichloroethylene	<0.50	<0.50	<0.50	0.50
cis-1,2-Dichloroethylene	<0.50	<0.50	<0.50	0.50
1,2-Dichloropropane	<0.50	<0.50	<0.50	0.50
2,2-Dichloropropane	<0.50	<0.50	<0.50	0.50
1,3-Dichloropropane	<0.50	<0.50	<0.50	0.50
cis-1,3-Dichloropropylene	<0.50	<0.50	<0.50	0.50
trans-1,3-Dichloropropylene	<0.50	<0.50	<0.50	0.50
1,1-Dichloropropylene	<0.50	<0.50	<0.50	0.50
Diisopropyl ether (DIPE)	<2.0	<2.0	<2.0	2.0
Ethylbenzene	<0.50	<0.50	<0.50	0.50
Ethyl-tert-Butyl Ether (ETBE)	<2.0	<2.0	<2.0	2.0
Gasoline Range Organics (GRO)	<100	<100	<100	100
Hexachlorobutadiene	<1.0	<1.0	<1.0	1.0
2-Hexanone (MBK)	<10	<10	<10	10
Isopropylbenzene	<0.50	<0.50	<0.50	0.50
4-Isopropyltoluene	<1.0	<1.0	<1.0	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.0	<1.0	<1.0	1.0
Methylene Chloride	<5.0	<5.0	<5.0	5.0
4-Methyl-2-pentanone (MIBK)	<10	<10	<10	10
Naphthalene	<2.0	<2.0	<2.0	2.0
n-Propylbenzene	<0.50	<0.50	<0.50	0.50

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs, OXY & TPH Gasoline by GC/MS

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/09/17	10/09/17	10/10/17	
Date Prepared:	10/13/17	10/13/17	10/13/17	
Date Analyzed:	10/13/17	10/13/17	10/13/17	
AA ID No:	7J11015-01	7J11015-02	7J11015-13	
Client ID No:	QCTB-1	QCEB-1	QCEB-1	
Matrix:	Water	Water	Water	
Dilution Factor:	1	1	1	MRL

8260B+OXY+TPHG (EPA 8260B) (continued)

Styrene	<0.50	<0.50	<0.50	0.50
1,1,1,2-Tetrachloroethane	<0.50	<0.50	<0.50	0.50
1,1,2,2-Tetrachloroethane	<0.50	<0.50	<0.50	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	<0.50	0.50
Toluene	<0.50	<0.50	<0.50	0.50
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	0.50
1,2,4-Trichlorobenzene	<0.50	<0.50	<0.50	0.50
1,1,1-Trichloroethane	<0.50	<0.50	<0.50	0.50
1,1,2-Trichloroethane	<0.50	<0.50	<0.50	0.50
Trichloroethylene (TCE)	<0.50	<0.50	<0.50	0.50
Trichlorofluoromethane (R11)	<0.50	<0.50	<0.50	0.50
1,2,3-Trichloropropane	<0.50	<0.50	<0.50	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	<0.50	<0.50	0.50
1,3,5-Trimethylbenzene	<0.50	<0.50	<0.50	0.50
1,2,4-Trimethylbenzene	<0.50	<0.50	<0.50	0.50
Vinyl chloride	<0.50	<0.50	<0.50	0.50
o-Xylene	<0.50	<0.50	<0.50	0.50
m,p-Xylenes	<1.0	<1.0	<1.0	1.0

Surrogates

				%REC Limits
4-Bromofluorobenzene	101%	98%	100%	70-140
Dibromofluoromethane	114%	113%	114%	70-140
Toluene-d8	97%	98%	97%	70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/09/17	10/09/17	10/09/17	10/09/17	
Date Prepared:	10/13/17	10/13/17	10/13/17	10/12/17	
Date Analyzed:	10/13/17	10/13/17	10/13/17	10/12/17	
AA ID No:	7J11015-03	7J11015-04	7J11015-05	7J11015-06	
Client ID No:	GMW-17R	TF-21	GMW-58	GMW-60	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

8260B+OXYGENATES (EPA 8260B)

Acetone	<10	19	15	<10	10
tert-Amyl Methyl Ether (TAME)	<2.0	<2.0	<2.0	<2.0	2.0
Benzene	64	4.3	21	<0.50	0.50
Bromobenzene	<0.50	<0.50	<0.50	<0.50	0.50
Bromochloromethane	<0.50	<0.50	<0.50	<0.50	0.50
Bromodichloromethane	<0.50	<0.50	<0.50	<0.50	0.50
Bromoform	<0.50	<0.50	<0.50	<0.50	0.50
Bromomethane	<0.50	<0.50	<0.50	<0.50	0.50
2-Butanone (MEK)	<10	<10	<10	<10	10
tert-Butyl alcohol (TBA)	19	18	<10	<10	10
sec-Butylbenzene	3.4	4.4	<0.50	<0.50	0.50
tert-Butylbenzene	1.0	1.1	<0.50	<0.50	0.50
n-Butylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
Carbon Disulfide	<0.50	<0.50	<0.50	<0.50	0.50
Carbon Tetrachloride	<0.50	<0.50	<0.50	<0.50	0.50
Chlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
Chloroethane	<0.50	<0.50	<0.50	<0.50	0.50
Chloroform	<0.50	<0.50	<0.50	<0.50	0.50
Chloromethane	<0.50	<0.50	<0.50	<0.50	0.50
2-Chlorotoluene	<0.50	<0.50	<0.50	<0.50	0.50
4-Chlorotoluene	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dibromo-3-chloropropane	<1.0	<1.0	<1.0	<1.0	1.0
Dibromochloromethane	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dibromoethane (EDB)	<0.50	<0.50	<0.50	<0.50	0.50
Dibromomethane	<0.50	<0.50	<0.50	<0.50	0.50
1,3-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/09/17	10/09/17	10/09/17	10/09/17	
Date Prepared:	10/13/17	10/13/17	10/13/17	10/12/17	
Date Analyzed:	10/13/17	10/13/17	10/13/17	10/12/17	
AA ID No:	7J11015-03	7J11015-04	7J11015-05	7J11015-06	
Client ID No:	GMW-17R	TF-21	GMW-58	GMW-60	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

8260B+OXYGENATES (EPA 8260B) (continued)

1,4-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
Dichlorodifluoromethane (R12)	<0.50	<0.50	<0.50	<0.50	0.50
1,1-Dichloroethane	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dichloroethane (EDC)	<0.50	<0.50	<0.50	<0.50	0.50
1,1-Dichloroethylene	<0.50	<0.50	<0.50	<0.50	0.50
trans-1,2-Dichloroethylene	<0.50	<0.50	<0.50	<0.50	0.50
cis-1,2-Dichloroethylene	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50	0.50
2,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50	0.50
1,3-Dichloropropane	<0.50	<0.50	<0.50	<0.50	0.50
cis-1,3-Dichloropropylene	<0.50	<0.50	<0.50	<0.50	0.50
trans-1,3-Dichloropropylene	<0.50	<0.50	<0.50	<0.50	0.50
1,1-Dichloropropylene	<0.50	<0.50	<0.50	<0.50	0.50
Diisopropyl ether (DIPE)	<2.0	<2.0	<2.0	<2.0	2.0
Ethylbenzene	5.0	<0.50	<0.50	<0.50	0.50
Ethyl-tert-Butyl Ether (ETBE)	<2.0	<2.0	<2.0	<2.0	2.0
Hexachlorobutadiene	<1.0	<1.0	<1.0	<1.0	1.0
2-Hexanone (MBK)	<10	<10	<10	<10	10
Isopropylbenzene	4.2	27	1.0	0.72	0.50
4-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	1.0
Methyl-tert-Butyl Ether (MTBE)	2.5	<1.0	<1.0	<1.0	1.0
Methylene Chloride	<5.0	<5.0	<5.0	<5.0	5.0
4-Methyl-2-pentanone (MIBK)	<10	<10	<10	<10	10
Naphthalene	5.7	6.8	<2.0	<2.0	2.0
n-Propylbenzene	1.4	11	<0.50	<0.50	0.50
Styrene	<0.50	<0.50	<0.50	<0.50	0.50
1,1,1,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	0.50

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/09/17	10/09/17	10/09/17	10/09/17	
Date Prepared:	10/13/17	10/13/17	10/13/17	10/12/17	
Date Analyzed:	10/13/17	10/13/17	10/13/17	10/12/17	
AA ID No:	7J11015-03	7J11015-04	7J11015-05	7J11015-06	
Client ID No:	GMW-17R	TF-21	GMW-58	GMW-60	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

8260B+OXYGENATES (EPA 8260B) (continued)

1,1,2,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	<0.50	<0.50	0.50
Toluene	<0.50	<0.50	<0.50	<0.50	0.50
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
1,2,4-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50
1,1,1-Trichloroethane	<0.50	<0.50	<0.50	<0.50	0.50
1,1,2-Trichloroethane	<0.50	<0.50	<0.50	<0.50	0.50
Trichloroethylene (TCE)	<0.50	<0.50	<0.50	<0.50	0.50
Trichlorofluoromethane (R11)	<0.50	<0.50	<0.50	<0.50	0.50
1,2,3-Trichloropropane	<0.50	<0.50	<0.50	<0.50	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	<0.50	<0.50	<0.50	0.50
1,3,5-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
1,2,4-Trimethylbenzene	11	<0.50	<0.50	<0.50	0.50
Vinyl chloride	<0.50	<0.50	<0.50	<0.50	0.50
o-Xylene	0.99	<0.50	<0.50	<0.50	0.50
m,p-Xylenes	1.9	<1.0	<1.0	<1.0	1.0

Surrogates

					%REC Limits
4-Bromofluorobenzene	95%	94%	99%	102%	70-140
Dibromofluoromethane	109%	108%	108%	87%	70-140
Toluene-d8	96%	97%	97%	111%	70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/09/17	10/09/17	10/09/17	10/09/17	
Date Prepared:	10/12/17	10/13/17	10/13/17	10/12/17	
Date Analyzed:	10/13/17	10/13/17	10/13/17	10/13/17	
AA ID No:	7J11015-07	7J11015-08	7J11015-09	7J11015-10	
Client ID No:	GMW-61	GW-15	GMW-59	GMW-48	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	10	2	2	MRL

8260B+OXYGENATES (EPA 8260B)

Acetone	<10	<100	<20	<20	10
tert-Amyl Methyl Ether (TAME)	<2.0	<20	<4.0	<4.0	2.0
Benzene	<0.50	550	17	190	0.50
Bromobenzene	<0.50	<5.0	<1.0	<1.0	0.50
Bromochloromethane	<0.50	<5.0	<1.0	<1.0	0.50
Bromodichloromethane	<0.50	<5.0	<1.0	<1.0	0.50
Bromoform	<0.50	<5.0	<1.0	<1.0	0.50
Bromomethane	<0.50	<5.0	<1.0	<1.0	0.50
2-Butanone (MEK)	<10	<100	<20	<20	10
tert-Butyl alcohol (TBA)	<10	<100	<20	<20	10
sec-Butylbenzene	<0.50	<5.0	2.9	1.5	0.50
tert-Butylbenzene	0.60	<5.0	1.4	<1.0	0.50
n-Butylbenzene	<0.50	<5.0	<1.0	<1.0	0.50
Carbon Disulfide	<0.50	<5.0	<1.0	<1.0	0.50
Carbon Tetrachloride	<0.50	<5.0	<1.0	<1.0	0.50
Chlorobenzene	<0.50	<5.0	<1.0	<1.0	0.50
Chloroethane	<0.50	<5.0	<1.0	<1.0	0.50
Chloroform	<0.50	<5.0	<1.0	<1.0	0.50
Chloromethane	<0.50	<5.0	<1.0	<1.0	0.50
2-Chlorotoluene	<0.50	<5.0	<1.0	<1.0	0.50
4-Chlorotoluene	<0.50	<5.0	<1.0	<1.0	0.50
1,2-Dibromo-3-chloropropane	<1.0	<10	<2.0	<2.0	1.0
Dibromochloromethane	<0.50	<5.0	<1.0	<1.0	0.50
1,2-Dibromoethane (EDB)	<0.50	<5.0	<1.0	<1.0	0.50
Dibromomethane	<0.50	<5.0	<1.0	<1.0	0.50
1,3-Dichlorobenzene	<0.50	<5.0	<1.0	<1.0	0.50
1,2-Dichlorobenzene	<0.50	<5.0	<1.0	<1.0	0.50

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/09/17	10/09/17	10/09/17	10/09/17	
Date Prepared:	10/12/17	10/13/17	10/13/17	10/12/17	
Date Analyzed:	10/13/17	10/13/17	10/13/17	10/13/17	
AA ID No:	7J11015-07	7J11015-08	7J11015-09	7J11015-10	
Client ID No:	GMW-61	GW-15	GMW-59	GMW-48	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	10	2	2	MRL

8260B+OXYGENATES (EPA 8260B) (continued)

1,4-Dichlorobenzene	<0.50	<5.0	<1.0	<1.0	0.50
Dichlorodifluoromethane (R12)	<0.50	<5.0	<1.0	<1.0	0.50
1,1-Dichloroethane	<0.50	<5.0	<1.0	<1.0	0.50
1,2-Dichloroethane (EDC)	<0.50	<5.0	<1.0	<1.0	0.50
1,1-Dichloroethylene	<0.50	<5.0	<1.0	<1.0	0.50
trans-1,2-Dichloroethylene	<0.50	<5.0	<1.0	<1.0	0.50
cis-1,2-Dichloroethylene	<0.50	<5.0	4.6	3.4	0.50
1,2-Dichloropropane	<0.50	<5.0	<1.0	<1.0	0.50
2,2-Dichloropropane	<0.50	<5.0	<1.0	<1.0	0.50
1,3-Dichloropropane	<0.50	<5.0	<1.0	<1.0	0.50
cis-1,3-Dichloropropylene	<0.50	<5.0	<1.0	<1.0	0.50
trans-1,3-Dichloropropylene	<0.50	<5.0	<1.0	<1.0	0.50
1,1-Dichloropropylene	<0.50	<5.0	<1.0	<1.0	0.50
Diisopropyl ether (DIPE)	<2.0	<20	<4.0	<4.0	2.0
Ethylbenzene	<0.50	<5.0	<1.0	<1.0	0.50
Ethyl-tert-Butyl Ether (ETBE)	<2.0	<20	<4.0	<4.0	2.0
Hexachlorobutadiene	<1.0	<10	<2.0	<2.0	1.0
2-Hexanone (MBK)	<10	<100	<20	<20	10
Isopropylbenzene	<0.50	29	21	15	0.50
4-Isopropyltoluene	<1.0	<10	<2.0	<2.0	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.0	<10	<2.0	<2.0	1.0
Methylene Chloride	<5.0	<50	<10	<10	5.0
4-Methyl-2-pentanone (MIBK)	<10	<100	<20	<20	10
Naphthalene	<2.0	37	<4.0	<4.0	2.0
n-Propylbenzene	<0.50	24	<1.0	<1.0	0.50
Styrene	<0.50	<5.0	<1.0	<1.0	0.50
1,1,1,2-Tetrachloroethane	<0.50	<5.0	<1.0	<1.0	0.50

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/09/17	10/09/17	10/09/17	10/09/17	
Date Prepared:	10/12/17	10/13/17	10/13/17	10/12/17	
Date Analyzed:	10/13/17	10/13/17	10/13/17	10/13/17	
AA ID No:	7J11015-07	7J11015-08	7J11015-09	7J11015-10	
Client ID No:	GMW-61	GW-15	GMW-59	GMW-48	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	10	2	2	MRL

8260B+OXYGENATES (EPA 8260B) (continued)

1,1,2,2-Tetrachloroethane	<0.50	<5.0	<1.0	<1.0	0.50
Tetrachloroethylene (PCE)	<0.50	<5.0	<1.0	<1.0	0.50
Toluene	<0.50	<5.0	<1.0	<1.0	0.50
1,2,3-Trichlorobenzene	<0.50	<5.0	<1.0	<1.0	0.50
1,2,4-Trichlorobenzene	<0.50	<5.0	<1.0	<1.0	0.50
1,1,1-Trichloroethane	<0.50	<5.0	<1.0	<1.0	0.50
1,1,2-Trichloroethane	<0.50	<5.0	<1.0	<1.0	0.50
Trichloroethylene (TCE)	<0.50	<5.0	<1.0	<1.0	0.50
Trichlorofluoromethane (R11)	<0.50	<5.0	<1.0	<1.0	0.50
1,2,3-Trichloropropane	<0.50	<5.0	<1.0	<1.0	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	<5.0	<1.0	<1.0	0.50
1,3,5-Trimethylbenzene	<0.50	<5.0	<1.0	<1.0	0.50
1,2,4-Trimethylbenzene	<0.50	<5.0	<1.0	<1.0	0.50
Vinyl chloride	<0.50	<5.0	<1.0	<1.0	0.50
o-Xylene	<0.50	<5.0	<1.0	<1.0	0.50
m,p-Xylenes	<1.0	10	<2.0	<2.0	1.0

Surrogates

					%REC Limits
4-Bromofluorobenzene	101%	96%	94%	101%	70-140
Dibromofluoromethane	80%	98%	103%	85%	70-140
Toluene-d8	109%	101%	100%	111%	70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/09/17	10/09/17	10/10/17	10/10/17	
Date Prepared:	10/12/17	10/13/17	10/13/17	10/12/17	
Date Analyzed:	10/13/17	10/13/17	10/13/17	10/13/17	
AA ID No:	7J11015-11	7J11015-12	7J11015-14	7J11015-15	
Client ID No:	DUP-7	GMW-35R	TF-20R	PZ-3	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	2	1	10	2	MRL

8260B+OXYGENATES (EPA 8260B)

Acetone	<20	12	<100	<20	10
tert-Amyl Methyl Ether (TAME)	<4.0	<2.0	<20	<4.0	2.0
Benzene	180	9.4	490	28	0.50
Bromobenzene	<1.0	<0.50	<5.0	<1.0	0.50
Bromochloromethane	<1.0	<0.50	<5.0	<1.0	0.50
Bromodichloromethane	<1.0	<0.50	<5.0	<1.0	0.50
Bromoform	<1.0	<0.50	<5.0	<1.0	0.50
Bromomethane	<1.0	<0.50	<5.0	<1.0	0.50
2-Butanone (MEK)	<20	<10	<100	<20	10
tert-Butyl alcohol (TBA)	<20	770	<100	<20	10
sec-Butylbenzene	1.8	2.7	11	11	0.50
tert-Butylbenzene	<1.0	1.1	<5.0	2.4	0.50
n-Butylbenzene	<1.0	<0.50	<5.0	<1.0	0.50
Carbon Disulfide	<1.0	<0.50	<5.0	<1.0	0.50
Carbon Tetrachloride	<1.0	<0.50	<5.0	<1.0	0.50
Chlorobenzene	<1.0	<0.50	<5.0	<1.0	0.50
Chloroethane	<1.0	<0.50	<5.0	<1.0	0.50
Chloroform	<1.0	<0.50	<5.0	<1.0	0.50
Chloromethane	<1.0	<0.50	<5.0	<1.0	0.50
2-Chlorotoluene	<1.0	<0.50	<5.0	<1.0	0.50
4-Chlorotoluene	<1.0	<0.50	<5.0	<1.0	0.50
1,2-Dibromo-3-chloropropane	<2.0	<1.0	<10	<2.0	1.0
Dibromochloromethane	<1.0	<0.50	<5.0	<1.0	0.50
1,2-Dibromoethane (EDB)	<1.0	<0.50	<5.0	<1.0	0.50
Dibromomethane	<1.0	<0.50	<5.0	<1.0	0.50
1,3-Dichlorobenzene	<1.0	<0.50	<5.0	<1.0	0.50
1,2-Dichlorobenzene	<1.0	<0.50	<5.0	<1.0	0.50

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/09/17	10/09/17	10/10/17	10/10/17	
Date Prepared:	10/12/17	10/13/17	10/13/17	10/12/17	
Date Analyzed:	10/13/17	10/13/17	10/13/17	10/13/17	
AA ID No:	7J11015-11	7J11015-12	7J11015-14	7J11015-15	
Client ID No:	DUP-7	GMW-35R	TF-20R	PZ-3	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	2	1	10	2	MRL

8260B+OXYGENATES (EPA 8260B) (continued)

1,4-Dichlorobenzene	<1.0	<0.50	<5.0	<1.0	0.50
Dichlorodifluoromethane (R12)	<1.0	<0.50	<5.0	<1.0	0.50
1,1-Dichloroethane	<1.0	1.3	<5.0	<1.0	0.50
1,2-Dichloroethane (EDC)	<1.0	<0.50	<5.0	<1.0	0.50
1,1-Dichloroethylene	<1.0	<0.50	<5.0	<1.0	0.50
trans-1,2-Dichloroethylene	<1.0	<0.50	<5.0	<1.0	0.50
cis-1,2-Dichloroethylene	3.6	<0.50	<5.0	<1.0	0.50
1,2-Dichloropropane	<1.0	<0.50	<5.0	<1.0	0.50
2,2-Dichloropropane	<1.0	<0.50	<5.0	<1.0	0.50
1,3-Dichloropropane	<1.0	<0.50	<5.0	<1.0	0.50
cis-1,3-Dichloropropylene	<1.0	<0.50	<5.0	<1.0	0.50
trans-1,3-Dichloropropylene	<1.0	<0.50	<5.0	<1.0	0.50
1,1-Dichloropropylene	<1.0	<0.50	<5.0	<1.0	0.50
Diisopropyl ether (DIPE)	<4.0	<2.0	<20	<4.0	2.0
Ethylbenzene	<1.0	<0.50	<5.0	<1.0	0.50
Ethyl-tert-Butyl Ether (ETBE)	<4.0	<2.0	<20	<4.0	2.0
Hexachlorobutadiene	<2.0	<1.0	<10	<2.0	1.0
2-Hexanone (MBK)	<20	<10	<100	<20	10
Isopropylbenzene	18	6.6	85	69	0.50
4-Isopropyltoluene	<2.0	<1.0	<10	<2.0	1.0
Methyl-tert-Butyl Ether (MTBE)	<2.0	5.0	<10	<2.0	1.0
Methylene Chloride	<10	<5.0	<50	<10	5.0
4-Methyl-2-pentanone (MIBK)	<20	<10	<100	<20	10
Naphthalene	<4.0	<2.0	94	21	2.0
n-Propylbenzene	1.1	1.2	75	49	0.50
Styrene	<1.0	<0.50	<5.0	<1.0	0.50
1,1,1,2-Tetrachloroethane	<1.0	<0.50	<5.0	<1.0	0.50

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/09/17	10/09/17	10/10/17	10/10/17	
Date Prepared:	10/12/17	10/13/17	10/13/17	10/12/17	
Date Analyzed:	10/13/17	10/13/17	10/13/17	10/13/17	
AA ID No:	7J11015-11	7J11015-12	7J11015-14	7J11015-15	
Client ID No:	DUP-7	GMW-35R	TF-20R	PZ-3	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	2	1	10	2	MRL

8260B+OXYGENATES (EPA 8260B) (continued)

1,1,2,2-Tetrachloroethane	<1.0	<0.50	<5.0	<1.0	0.50
Tetrachloroethylene (PCE)	<1.0	<0.50	<5.0	<1.0	0.50
Toluene	<1.0	<0.50	<5.0	<1.0	0.50
1,2,3-Trichlorobenzene	<1.0	<0.50	<5.0	<1.0	0.50
1,2,4-Trichlorobenzene	<1.0	<0.50	<5.0	<1.0	0.50
1,1,1-Trichloroethane	<1.0	<0.50	<5.0	<1.0	0.50
1,1,2-Trichloroethane	<1.0	<0.50	<5.0	<1.0	0.50
Trichloroethylene (TCE)	<1.0	<0.50	<5.0	<1.0	0.50
Trichlorofluoromethane (R11)	<1.0	<0.50	<5.0	<1.0	0.50
1,2,3-Trichloropropane	<1.0	<0.50	<5.0	<1.0	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<1.0	<0.50	<5.0	<1.0	0.50
1,3,5-Trimethylbenzene	<1.0	<0.50	<5.0	<1.0	0.50
1,2,4-Trimethylbenzene	<1.0	<0.50	<5.0	<1.0	0.50
Vinyl chloride	<1.0	<0.50	<5.0	<1.0	0.50
o-Xylene	<1.0	<0.50	<5.0	<1.0	0.50
m,p-Xylenes	<2.0	<1.0	<10	<2.0	1.0

Surrogates

					%REC Limits
4-Bromofluorobenzene	103%	95%	94%	94%	70-140
Dibromofluoromethane	84%	106%	107%	84%	70-140
Toluene-d8	112%	97%	96%	111%	70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/10/17	
Date Prepared:	10/12/17	
Date Analyzed:	10/12/17	
AA ID No:	7J11015-16	
Client ID No:	GMW-7	
Matrix:	Water	
Dilution Factor:	1	MRL

8260B+OXYGENATES (EPA 8260B)

Acetone	<10	10
tert-Amyl Methyl Ether (TAME)	<2.0	2.0
Benzene	2.2	0.50
Bromobenzene	<0.50	0.50
Bromochloromethane	<0.50	0.50
Bromodichloromethane	<0.50	0.50
Bromoform	<0.50	0.50
Bromomethane	<0.50	0.50
2-Butanone (MEK)	<10	10
tert-Butyl alcohol (TBA)	<10	10
sec-Butylbenzene	1.1	0.50
tert-Butylbenzene	0.80	0.50
n-Butylbenzene	<0.50	0.50
Carbon Disulfide	<0.50	0.50
Carbon Tetrachloride	<0.50	0.50
Chlorobenzene	<0.50	0.50
Chloroethane	<0.50	0.50
Chloroform	<0.50	0.50
Chloromethane	<0.50	0.50
2-Chlorotoluene	<0.50	0.50
4-Chlorotoluene	<0.50	0.50
1,2-Dibromo-3-chloropropane	<1.0	1.0
Dibromochloromethane	<0.50	0.50
1,2-Dibromoethane (EDB)	<0.50	0.50
Dibromomethane	<0.50	0.50
1,3-Dichlorobenzene	<0.50	0.50
1,2-Dichlorobenzene	<0.50	0.50

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/10/17	
Date Prepared:	10/12/17	
Date Analyzed:	10/12/17	
AA ID No:	7J11015-16	
Client ID No:	GMW-7	
Matrix:	Water	
Dilution Factor:	1	MRL

8260B+OXYGENATES (EPA 8260B) (continued)

1,4-Dichlorobenzene	<0.50	0.50
Dichlorodifluoromethane (R12)	<0.50	0.50
1,1-Dichloroethane	<0.50	0.50
1,2-Dichloroethane (EDC)	<0.50	0.50
1,1-Dichloroethylene	<0.50	0.50
trans-1,2-Dichloroethylene	<0.50	0.50
cis-1,2-Dichloroethylene	<0.50	0.50
1,2-Dichloropropane	<0.50	0.50
2,2-Dichloropropane	<0.50	0.50
1,3-Dichloropropane	<0.50	0.50
cis-1,3-Dichloropropylene	<0.50	0.50
trans-1,3-Dichloropropylene	<0.50	0.50
1,1-Dichloropropylene	<0.50	0.50
Diisopropyl ether (DIPE)	<2.0	2.0
Ethylbenzene	<0.50	0.50
Ethyl-tert-Butyl Ether (ETBE)	<2.0	2.0
Hexachlorobutadiene	<1.0	1.0
2-Hexanone (MBK)	<10	10
Isopropylbenzene	2.9	0.50
4-Isopropyltoluene	<1.0	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0
Methylene Chloride	<5.0	5.0
4-Methyl-2-pentanone (MIBK)	<10	10
Naphthalene	<2.0	2.0
n-Propylbenzene	1.2	0.50
Styrene	<0.50	0.50
1,1,1,2-Tetrachloroethane	<0.50	0.50

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/10/17	
Date Prepared:	10/12/17	
Date Analyzed:	10/12/17	
AA ID No:	7J11015-16	
Client ID No:	GMW-7	
Matrix:	Water	
Dilution Factor:	1	MRL

8260B+OXYGENATES (EPA 8260B) (continued)

1,1,2,2-Tetrachloroethane	<0.50	0.50
Tetrachloroethylene (PCE)	<0.50	0.50
Toluene	<0.50	0.50
1,2,3-Trichlorobenzene	<0.50	0.50
1,2,4-Trichlorobenzene	<0.50	0.50
1,1,1-Trichloroethane	<0.50	0.50
1,1,2-Trichloroethane	<0.50	0.50
Trichloroethylene (TCE)	<0.50	0.50
Trichlorofluoromethane (R11)	<0.50	0.50
1,2,3-Trichloropropane	<0.50	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	0.50
1,3,5-Trimethylbenzene	2.5	0.50
1,2,4-Trimethylbenzene	<0.50	0.50
Vinyl chloride	<0.50	0.50
o-Xylene	<0.50	0.50
m,p-Xylenes	<1.0	1.0

Surrogates		%REC Limits
4-Bromofluorobenzene	86%	70-140
Dibromofluoromethane	77%	70-140
Toluene-d8	109%	70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: Diesel Range Organics by GC/FID

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17
Units: mg/L

Date Sampled:	10/09/17	10/09/17	10/09/17	10/09/17	
Date Prepared:	10/12/17	10/12/17	10/12/17	10/12/17	
Date Analyzed:	10/12/17	10/12/17	10/12/17	10/12/17	
AA ID No:	7J11015-03	7J11015-04	7J11015-05	7J11015-06	
Client ID No:	GMW-17R	TF-21	GMW-58	GMW-60	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

Diesel Range Organics 8015M (EPA 8015M)

Diesel Range Organics as Diesel	1.2	1.7	0.96	0.43	0.10
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Surrogates

o-Terphenyl	95%	94%	78%	80%	<u>%REC Limits</u> 50-150
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Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: Diesel Range Organics by GC/FID

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17
Units: mg/L

Date Sampled:	10/09/17	10/09/17	10/09/17	10/09/17	
Date Prepared:	10/12/17	10/12/17	10/12/17	10/12/17	
Date Analyzed:	10/12/17	10/12/17	10/12/17	10/12/17	
AA ID No:	7J11015-07	7J11015-08	7J11015-09	7J11015-10	
Client ID No:	GMW-61	GW-15	GMW-59	GMW-48	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

Diesel Range Organics 8015M (EPA 8015M)

Diesel Range Organics as Diesel	1.0	0.61	0.96	1.4	0.10
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Surrogates

o-Terphenyl	87%	71%	80%	86%	<u>%REC Limits</u> 50-150
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: Diesel Range Organics by GC/FID

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17
Units: mg/L

Date Sampled:	10/09/17	10/09/17	10/10/17	10/10/17	
Date Prepared:	10/12/17	10/12/17	10/12/17	10/12/17	
Date Analyzed:	10/12/17	10/12/17	10/12/17	10/12/17	
AA ID No:	7J11015-11	7J11015-12	7J11015-14	7J11015-15	
Client ID No:	DUP-7	GMW-35R	TF-20R	PZ-3	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

Diesel Range Organics 8015M (EPA 8015M)

Diesel Range Organics as Diesel	1.6	1.4	0.66	1.5	0.10
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Surrogates

o-Terphenyl	87%	127%	83%	99%	<u>%REC Limits</u> 50-150
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Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: Diesel Range Organics by GC/FID

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17
Units: mg/L

Date Sampled:	10/10/17	
Date Prepared:	10/12/17	
Date Analyzed:	10/12/17	
AA ID No:	7J11015-16	
Client ID No:	GMW-7	
Matrix:	Water	
Dilution Factor:	1	MRL

Diesel Range Organics 8015M (EPA 8015M)

Diesel Range Organics as Diesel	1.4	0.10
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Surrogates

o-Terphenyl	89%	<u>%REC Limits</u> 50-150
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Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: Gasoline Range Organics by GC/FID

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/09/17	10/09/17	10/09/17	10/09/17	
Date Prepared:	10/12/17	10/12/17	10/12/17	10/12/17	
Date Analyzed:	10/12/17	10/12/17	10/12/17	10/12/17	
AA ID No:	7J11015-03	7J11015-04	7J11015-05	7J11015-06	
Client ID No:	GMW-17R	TF-21	GMW-58	GMW-60	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

Gasoline Range Organics 8015M (EPA 8015M)

Gasoline Range Organics (GRO)	640	350	<100	<100	100
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Surrogates

a,a,a-Trifluorotoluene	97%	97%	91%	92%	<u>%REC Limits</u> 80-120
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: Gasoline Range Organics by GC/FID

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/09/17	10/09/17	10/09/17	10/09/17	
Date Prepared:	10/12/17	10/12/17	10/12/17	10/12/17	
Date Analyzed:	10/12/17	10/12/17	10/12/17	10/12/17	
AA ID No:	7J11015-07	7J11015-08	7J11015-09	7J11015-10	
Client ID No:	GMW-61	GW-15	GMW-59	GMW-48	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	5	1	1	MRL

Gasoline Range Organics 8015M (EPA 8015M)

Gasoline Range Organics (GRO)	<100	990	210	360	100
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Surrogates

a,a,a-Trifluorotoluene	93%	93%	93%	96%	<u>%REC Limits</u> 80-120
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: Gasoline Range Organics by GC/FID

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/09/17	10/09/17	10/10/17	10/10/17	
Date Prepared:	10/12/17	10/12/17	10/13/17	10/12/17	
Date Analyzed:	10/12/17	10/12/17	10/13/17	10/12/17	
AA ID No:	7J11015-11	7J11015-12	7J11015-14	7J11015-15	
Client ID No:	DUP-7	GMW-35R	TF-20R	PZ-3	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	5	2	MRL

Gasoline Range Organics 8015M (EPA 8015M)

Gasoline Range Organics (GRO)	360	160	1300	710	100
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Surrogates

a,a,a-Trifluorotoluene	96%	94%	103%	98%	<u>%REC Limits</u> 80-120
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Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: Gasoline Range Organics by GC/FID

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17
Units: ug/L

Date Sampled:	10/10/17	
Date Prepared:	10/12/17	
Date Analyzed:	10/12/17	
AA ID No:	7J11015-16	
Client ID No:	GMW-7	
Matrix:	Water	
Dilution Factor:	1	MRL

Gasoline Range Organics 8015M (EPA 8015M)

Gasoline Range Organics (GRO)	240	100
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Surrogates

		<u>%REC Limits</u>
a,a,a-Trifluorotoluene	100%	80-120

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17

Analyte	Reporting Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J1636 - EPA 5030B

Blank (B7J1636-BLK1)

Prepared & Analyzed: 10/13/17

Acetone	<10	10	ug/L							
tert-Amyl Methyl Ether (TAME)	<2.0	2.0	ug/L							
Benzene	<0.50	0.50	ug/L							
Bromobenzene	<0.50	0.50	ug/L							
Bromochloromethane	<0.50	0.50	ug/L							
Bromodichloromethane	<0.50	0.50	ug/L							
Bromoform	<0.50	0.50	ug/L							
Bromomethane	<0.50	0.50	ug/L							
2-Butanone (MEK)	<10	10	ug/L							
tert-Butyl alcohol (TBA)	<10	10	ug/L							
sec-Butylbenzene	<0.50	0.50	ug/L							
tert-Butylbenzene	<0.50	0.50	ug/L							
n-Butylbenzene	<0.50	0.50	ug/L							
Carbon Disulfide	<0.50	0.50	ug/L							
Carbon Tetrachloride	<0.50	0.50	ug/L							
Chlorobenzene	<0.50	0.50	ug/L							
Chloroethane	<0.50	0.50	ug/L							
Chloroform	<0.50	0.50	ug/L							
Chloromethane	<0.50	0.50	ug/L							
2-Chlorotoluene	<0.50	0.50	ug/L							
4-Chlorotoluene	<0.50	0.50	ug/L							
1,2-Dibromo-3-chloropropane	<1.0	1.0	ug/L							
Dibromochloromethane	<0.50	0.50	ug/L							
1,2-Dibromoethane (EDB)	<0.50	0.50	ug/L							
Dibromomethane	<0.50	0.50	ug/L							
1,3-Dichlorobenzene	<0.50	0.50	ug/L							
1,2-Dichlorobenzene	<0.50	0.50	ug/L							
1,4-Dichlorobenzene	<0.50	0.50	ug/L							
Dichlorodifluoromethane (R12)	<0.50	0.50	ug/L							
1,1-Dichloroethane	<0.50	0.50	ug/L							
1,2-Dichloroethane (EDC)	<0.50	0.50	ug/L							

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J1636 - EPA 5030B

Blank (B7J1636-BLK1) Continued

Prepared & Analyzed: 10/13/17

1,1-Dichloroethylene	<0.50	0.50	ug/L
trans-1,2-Dichloroethylene	<0.50	0.50	ug/L
cis-1,2-Dichloroethylene	<0.50	0.50	ug/L
1,2-Dichloropropane	<0.50	0.50	ug/L
2,2-Dichloropropane	<0.50	0.50	ug/L
1,3-Dichloropropane	<0.50	0.50	ug/L
cis-1,3-Dichloropropylene	<0.50	0.50	ug/L
trans-1,3-Dichloropropylene	<0.50	0.50	ug/L
1,1-Dichloropropylene	<0.50	0.50	ug/L
Diisopropyl ether (DIPE)	<2.0	2.0	ug/L
Ethylbenzene	<0.50	0.50	ug/L
Ethyl-tert-Butyl Ether (ETBE)	<2.0	2.0	ug/L
Gasoline Range Organics (GRO)	<100	100	ug/L
Hexachlorobutadiene	<1.0	1.0	ug/L
2-Hexanone (MBK)	<10	10	ug/L
Isopropylbenzene	<0.50	0.50	ug/L
4-Isopropyltoluene	<1.0	1.0	ug/L
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L
Methylene Chloride	<5.0	5.0	ug/L
4-Methyl-2-pentanone (MIBK)	<10	10	ug/L
Naphthalene	<2.0	2.0	ug/L
n-Propylbenzene	<0.50	0.50	ug/L
Styrene	<0.50	0.50	ug/L
1,1,1,2-Tetrachloroethane	<0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	<0.50	0.50	ug/L
Tetrachloroethylene (PCE)	<0.50	0.50	ug/L
Toluene	<0.50	0.50	ug/L
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L
1,2,4-Trichlorobenzene	<0.50	0.50	ug/L
1,1,1-Trichloroethane	<0.50	0.50	ug/L
1,1,2-Trichloroethane	<0.50	0.50	ug/L

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17

Analyte	Reporting Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J1636 - EPA 5030B

Blank (B7J1636-BLK1) Continued

Prepared & Analyzed: 10/13/17

Trichloroethylene (TCE)	<0.50	0.50	ug/L
Trichlorofluoromethane (R11)	<0.50	0.50	ug/L
1,2,3-Trichloropropane	<0.50	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	0.50	ug/L
1,3,5-Trimethylbenzene	<0.50	0.50	ug/L
1,2,4-Trimethylbenzene	<0.50	0.50	ug/L
Vinyl chloride	<0.50	0.50	ug/L
o-Xylene	<0.50	0.50	ug/L
m,p-Xylenes	<1.0	1.0	ug/L

Surrogate: 4-Bromofluorobenzene	48.5		ug/L	50		97.1	70-140
Surrogate: Dibromofluoromethane	49.4		ug/L	50		98.8	70-140
Surrogate: Toluene-d8	50.8		ug/L	50		102	70-140

LCS (B7J1636-BS1)

Prepared & Analyzed: 10/13/17

Acetone	20.8	10	ug/L	20		104	70-130
tert-Amyl Methyl Ether (TAME)	16.6	2.0	ug/L	20		83.0	70-130
Benzene	19.9	0.50	ug/L	20		99.4	75-125
Bromobenzene	22.2	0.50	ug/L	20		111	70-130
Bromochloromethane	19.8	0.50	ug/L	20		99.2	70-130
Bromodichloromethane	19.1	0.50	ug/L	20		95.3	75-125
Bromoform	21.0	0.50	ug/L	20		105	75-125
Bromomethane	18.6	0.50	ug/L	20		93.0	75-125
2-Butanone (MEK)	20.0	10	ug/L	20		100	70-130
tert-Butyl alcohol (TBA)	92.1	10	ug/L	100		92.1	70-130
sec-Butylbenzene	22.1	0.50	ug/L	20		110	70-130
tert-Butylbenzene	22.4	0.50	ug/L	20		112	70-130
n-Butylbenzene	22.4	0.50	ug/L	20		112	70-130
Carbon Disulfide	19.0	0.50	ug/L	20		95.0	70-130
Carbon Tetrachloride	20.5	0.50	ug/L	20		102	75-125
Chlorobenzene	21.9	0.50	ug/L	20		109	75-125
Chloroethane	18.3	0.50	ug/L	20		91.5	75-125

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J1636 - EPA 5030B

LCS (B7J1636-BS1) Continued

Prepared & Analyzed: 10/13/17

Chloroform	19.4	0.50	ug/L	20		97.0	75-125			
Chloromethane	18.0	0.50	ug/L	20		90.2	65-125			
2-Chlorotoluene	21.5	0.50	ug/L	20		108	70-130			
4-Chlorotoluene	21.1	0.50	ug/L	20		106	70-130			
1,2-Dibromo-3-chloropropane	17.3	1.0	ug/L	20		86.6	70-130			
Dibromochloromethane	20.5	0.50	ug/L	20		102	75-125			
1,2-Dibromoethane (EDB)	20.3	0.50	ug/L	20		102	70-130			
Dibromomethane	19.3	0.50	ug/L	20		96.6	70-130			
1,3-Dichlorobenzene	20.9	0.50	ug/L	20		105	70-130			
1,2-Dichlorobenzene	22.0	0.50	ug/L	20		110	70-130			
1,4-Dichlorobenzene	21.1	0.50	ug/L	20		105	75-125			
Dichlorodifluoromethane (R12)	18.2	0.50	ug/L	20		91.0	70-130			
1,1-Dichloroethane	19.6	0.50	ug/L	20		98.0	70-125			
1,2-Dichloroethane (EDC)	17.9	0.50	ug/L	20		89.4	75-125			
1,1-Dichloroethylene	19.3	0.50	ug/L	20		96.3	70-130			
trans-1,2-Dichloroethylene	21.3	0.50	ug/L	20		107	75-125			
cis-1,2-Dichloroethylene	20.7	0.50	ug/L	20		103	75-125			
1,2-Dichloropropane	19.2	0.50	ug/L	20		95.8	75-130			
2,2-Dichloropropane	20.0	0.50	ug/L	20		100	70-130			
1,3-Dichloropropane	19.8	0.50	ug/L	20		99.2	70-130			
cis-1,3-Dichloropropylene	20.2	0.50	ug/L	20		101	75-125			
trans-1,3-Dichloropropylene	20.7	0.50	ug/L	20		103	70-130			
1,1-Dichloropropylene	21.1	0.50	ug/L	20		106	70-130			
Diisopropyl ether (DIPE)	19.1	2.0	ug/L	20		95.7	70-130			
Ethylbenzene	22.6	0.50	ug/L	20		113	75-125			
Ethyl-tert-Butyl Ether (ETBE)	18.8	2.0	ug/L	20		93.8	70-130			
Gasoline Range Organics (GRO)	502	100	ug/L	500		100	70-130			
Hexachlorobutadiene	23.1	1.0	ug/L	20		115	70-130			
2-Hexanone (MBK)	18.5	10	ug/L	20		92.6	70-130			
Isopropylbenzene	22.7	0.50	ug/L	20		114	70-130			
4-Isopropyltoluene	21.5	1.0	ug/L	20		108	70-130			

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J1636 - EPA 5030B

LCS (B7J1636-BS1) Continued

Prepared & Analyzed: 10/13/17

Methyl-tert-Butyl Ether (MTBE)	34.6	1.0	ug/L	40		86.6	75-125			
Methylene Chloride	17.4	5.0	ug/L	20		87.1	75-130			
4-Methyl-2-pentanone (MIBK)	17.5	10	ug/L	20		87.4	70-130			
Naphthalene	22.2	2.0	ug/L	20		111	70-130			
n-Propylbenzene	22.5	0.50	ug/L	20		112	70-130			
Styrene	22.8	0.50	ug/L	20		114	70-130			
1,1,1,2-Tetrachloroethane	21.4	0.50	ug/L	20		107	70-130			
1,1,2,2-Tetrachloroethane	19.6	0.50	ug/L	20		98.2	70-135			
Tetrachloroethylene (PCE)	23.4	0.50	ug/L	20		117	75-125			
Toluene	20.9	0.50	ug/L	20		105	75-125			
1,2,3-Trichlorobenzene	23.4	0.50	ug/L	20		117	70-130			
1,2,4-Trichlorobenzene	23.2	0.50	ug/L	20		116	70-130			
1,1,1-Trichloroethane	19.8	0.50	ug/L	20		98.8	75-125			
1,1,2-Trichloroethane	20.7	0.50	ug/L	20		103	75-125			
Trichloroethylene (TCE)	20.3	0.50	ug/L	20		102	75-125			
Trichlorofluoromethane (R11)	19.1	0.50	ug/L	20		95.6	70-130			
1,2,3-Trichloropropane	18.2	0.50	ug/L	20		91.0	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	18.5	0.50	ug/L	20		92.6	70-130			
1,3,5-Trimethylbenzene	21.9	0.50	ug/L	20		110	70-130			
1,2,4-Trimethylbenzene	21.8	0.50	ug/L	20		109	70-130			
Vinyl chloride	18.0	0.50	ug/L	20		90.0	75-125			
o-Xylene	21.2	0.50	ug/L	20		106	75-125			
m,p-Xylenes	43.3	1.0	ug/L	40		108	70-130			

Surrogate: 4-Bromofluorobenzene	48.7		ug/L	50		97.4	70-140			
Surrogate: Dibromofluoromethane	45.4		ug/L	50		90.8	70-140			
Surrogate: Toluene-d8	49.6		ug/L	50		99.2	70-140			

Matrix Spike (B7J1636-MS1)

Source: 7J11015-05 Prepared: 10/13/17 Analyzed: 10/14/17

Acetone	33.5	10	ug/L	20	15.0	92.6	70-130			
tert-Amyl Methyl Ether (TAME)	17.0	2.0	ug/L	20		85.0	70-130			
Benzene	38.2	0.50	ug/L	20	21.2	85.1	70-130			

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17

Analyte	Reporting Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J1636 - EPA 5030B

Matrix Spike (B7J1636-MS1) Continued Source: 7J11015-05 Prepared: 10/13/17 Analyzed: 10/14/17

Bromobenzene	22.6	0.50	ug/L	20		113	70-130			
Bromochloromethane	20.9	0.50	ug/L	20		104	70-130			
Bromodichloromethane	20.1	0.50	ug/L	20		101	70-130			
Bromoform	22.9	0.50	ug/L	20		114	70-130			
Bromomethane	16.4	0.50	ug/L	20		82.0	70-130			
2-Butanone (MEK)	23.8	10	ug/L	20		119	70-130			
tert-Butyl alcohol (TBA)	91.9	10	ug/L	100		91.9	70-130			
sec-Butylbenzene	22.7	0.50	ug/L	20		113	70-130			
tert-Butylbenzene	23.4	0.50	ug/L	20	0.410	115	70-130			
n-Butylbenzene	22.7	0.50	ug/L	20		113	70-130			
Carbon Disulfide	18.6	0.50	ug/L	20		93.2	70-130			
Carbon Tetrachloride	20.5	0.50	ug/L	20		102	70-130			
Chlorobenzene	22.3	0.50	ug/L	20		112	70-130			
Chloroethane	18.1	0.50	ug/L	20		90.4	70-130			
Chloroform	20.0	0.50	ug/L	20		100	70-130			
Chloromethane	17.4	0.50	ug/L	20		87.2	70-130			
2-Chlorotoluene	22.7	0.50	ug/L	20		113	70-130			
4-Chlorotoluene	22.0	0.50	ug/L	20		110	70-130			
1,2-Dibromo-3-chloropropane	21.8	1.0	ug/L	20		109	70-130			
Dibromochloromethane	22.6	0.50	ug/L	20		113	70-130			
1,2-Dibromoethane (EDB)	21.7	0.50	ug/L	20		109	70-130			
Dibromomethane	20.3	0.50	ug/L	20		102	70-130			
1,3-Dichlorobenzene	22.2	0.50	ug/L	20		111	70-130			
1,2-Dichlorobenzene	23.1	0.50	ug/L	20		116	70-130			
1,4-Dichlorobenzene	22.0	0.50	ug/L	20		110	70-130			
Dichlorodifluoromethane (R12)	16.3	0.50	ug/L	20		81.4	70-130			
1,1-Dichloroethane	20.2	0.50	ug/L	20		101	70-130			
1,2-Dichloroethane (EDC)	19.3	0.50	ug/L	20		96.6	70-130			
1,1-Dichloroethylene	19.4	0.50	ug/L	20		96.8	70-130			
trans-1,2-Dichloroethylene	21.1	0.50	ug/L	20		106	70-130			
cis-1,2-Dichloroethylene	21.4	0.50	ug/L	20	0.480	105	70-130			

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J1636 - EPA 5030B

Matrix Spike (B7J1636-MS1) Continued Source: 7J11015-05 Prepared: 10/13/17 Analyzed: 10/14/17

1,2-Dichloropropane	21.1	0.50	ug/L	20		106	70-130			
2,2-Dichloropropane	17.3	0.50	ug/L	20		86.6	70-130			
1,3-Dichloropropane	21.5	0.50	ug/L	20		107	70-130			
cis-1,3-Dichloropropylene	20.5	0.50	ug/L	20		103	70-130			
trans-1,3-Dichloropropylene	20.7	0.50	ug/L	20		104	70-130			
1,1-Dichloropropylene	21.6	0.50	ug/L	20		108	70-130			
Diisopropyl ether (DIPE)	21.4	2.0	ug/L	20		107	70-130			
Ethylbenzene	22.7	0.50	ug/L	20		114	70-130			
Ethyl-tert-Butyl Ether (ETBE)	19.4	2.0	ug/L	20		96.9	70-130			
Hexachlorobutadiene	21.6	1.0	ug/L	20		108	70-130			
2-Hexanone (MBK)	21.2	10	ug/L	20		106	70-130			
Isopropylbenzene	24.3	0.50	ug/L	20	1.04	116	70-130			
4-Isopropyltoluene	21.9	1.0	ug/L	20		110	70-130			
Methyl-tert-Butyl Ether (MTBE)	36.9	1.0	ug/L	40	0.650	90.6	70-130			
Methylene Chloride	16.3	5.0	ug/L	20		81.3	70-130			
4-Methyl-2-pentanone (MIBK)	21.2	10	ug/L	20		106	70-130			
Naphthalene	25.5	2.0	ug/L	20	0.730	124	70-130			
n-Propylbenzene	23.6	0.50	ug/L	20		118	70-130			
Styrene	23.5	0.50	ug/L	20		118	70-130			
1,1,1,2-Tetrachloroethane	22.9	0.50	ug/L	20		114	70-130			
1,1,2,2-Tetrachloroethane	21.9	0.50	ug/L	20		110	70-130			
Tetrachloroethylene (PCE)	23.0	0.50	ug/L	20		115	70-130			
Toluene	21.6	0.50	ug/L	20		108	70-130			
1,2,3-Trichlorobenzene	24.0	0.50	ug/L	20		120	70-130			
1,2,4-Trichlorobenzene	23.2	0.50	ug/L	20		116	70-130			
1,1,1-Trichloroethane	20.2	0.50	ug/L	20		101	70-130			
1,1,2-Trichloroethane	22.4	0.50	ug/L	20		112	70-130			
Trichloroethylene (TCE)	21.2	0.50	ug/L	20		106	70-130			
Trichlorofluoromethane (R11)	17.6	0.50	ug/L	20		88.1	70-130			
1,2,3-Trichloropropane	21.1	0.50	ug/L	20		105	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	17.6	0.50	ug/L	20		88.0	70-130			

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17

Analyte	Reporting Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J1636 - EPA 5030B

Matrix Spike (B7J1636-MS1) Continued Source: 7J11015-05 Prepared: 10/13/17 Analyzed: 10/14/17

1,3,5-Trimethylbenzene	23.1	0.50	ug/L	20		115	70-130			
1,2,4-Trimethylbenzene	22.7	0.50	ug/L	20		113	70-130			
Vinyl chloride	16.4	0.50	ug/L	20		82.2	70-130			
o-Xylene	21.7	0.50	ug/L	20		108	70-130			
m,p-Xylenes	43.7	1.0	ug/L	40		109	70-130			
Surrogate: 4-Bromofluorobenzene	48.8		ug/L	50		97.6	70-140			
Surrogate: Dibromofluoromethane	46.9		ug/L	50		93.8	70-140			
Surrogate: Toluene-d8	50.2		ug/L	50		100	70-140			

Matrix Spike Dup (B7J1636-MSD1) Source: 7J11015-05 Prepared: 10/13/17 Analyzed: 10/14/17

Acetone	34.1	10	ug/L	20	15.0	95.4	70-130	1.69	30	
tert-Amyl Methyl Ether (TAME)	16.6	2.0	ug/L	20		82.8	70-130	2.74	30	
Benzene	37.9	0.50	ug/L	20	21.2	83.8	70-130	0.709	30	
Bromobenzene	22.8	0.50	ug/L	20		114	70-130	1.10	30	
Bromochloromethane	20.3	0.50	ug/L	20		102	70-130	2.72	30	
Bromodichloromethane	19.8	0.50	ug/L	20		99.0	70-130	1.70	30	
Bromoform	22.2	0.50	ug/L	20		111	70-130	2.93	30	
Bromomethane	18.5	0.50	ug/L	20		92.6	70-130	12.1	30	
2-Butanone (MEK)	21.1	10	ug/L	20		105	70-130	12.2	30	
tert-Butyl alcohol (TBA)	90.2	10	ug/L	100		90.2	70-130	1.90	30	
sec-Butylbenzene	22.9	0.50	ug/L	20		115	70-130	1.10	30	
tert-Butylbenzene	23.7	0.50	ug/L	20	0.410	116	70-130	1.27	30	
n-Butylbenzene	22.8	0.50	ug/L	20		114	70-130	0.747	30	
Carbon Disulfide	19.6	0.50	ug/L	20		98.1	70-130	5.18	30	
Carbon Tetrachloride	20.5	0.50	ug/L	20		102	70-130	0.0488	30	
Chlorobenzene	23.0	0.50	ug/L	20		115	70-130	2.95	30	
Chloroethane	18.5	0.50	ug/L	20		92.7	70-130	2.46	30	
Chloroform	20.0	0.50	ug/L	20		100	70-130	0.0999	30	
Chloromethane	18.0	0.50	ug/L	20		90.2	70-130	3.49	30	
2-Chlorotoluene	22.4	0.50	ug/L	20		112	70-130	1.20	30	
4-Chlorotoluene	22.2	0.50	ug/L	20		111	70-130	0.634	30	
1,2-Dibromo-3-chloropropane	19.0	1.0	ug/L	20		95.2	70-130	13.7	30	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
VOCs, OXY & TPH Gasoline by GC/MS - Quality Control										
<i>Batch B7J1636 - EPA 5030B</i>										
Matrix Spike Dup (B7J1636-MSD1) Source: 7J11015-05 Prepared: 10/13/17 Analyzed: 10/14/17										
Continued										
Dibromochloromethane	22.3	0.50	ug/L	20		112	70-130	1.16	30	
1,2-Dibromoethane (EDB)	21.5	0.50	ug/L	20		108	70-130	1.02	30	
Dibromomethane	19.7	0.50	ug/L	20		98.3	70-130	3.40	30	
1,3-Dichlorobenzene	22.4	0.50	ug/L	20		112	70-130	0.853	30	
1,2-Dichlorobenzene	22.8	0.50	ug/L	20		114	70-130	1.57	30	
1,4-Dichlorobenzene	21.8	0.50	ug/L	20		109	70-130	0.594	30	
Dichlorodifluoromethane (R12)	16.6	0.50	ug/L	20		83.0	70-130	1.82	30	
1,1-Dichloroethane	20.6	0.50	ug/L	20		103	70-130	2.20	30	
1,2-Dichloroethane (EDC)	19.0	0.50	ug/L	20		95.0	70-130	1.57	30	
1,1-Dichloroethylene	19.9	0.50	ug/L	20		99.7	70-130	2.90	30	
trans-1,2-Dichloroethylene	21.7	0.50	ug/L	20		108	70-130	2.52	30	
cis-1,2-Dichloroethylene	21.9	0.50	ug/L	20	0.480	107	70-130	2.08	30	
1,2-Dichloropropane	20.7	0.50	ug/L	20		104	70-130	1.96	30	
2,2-Dichloropropane	17.3	0.50	ug/L	20		86.6	70-130	0.00	30	
1,3-Dichloropropane	20.8	0.50	ug/L	20		104	70-130	3.41	30	
cis-1,3-Dichloropropylene	20.1	0.50	ug/L	20		101	70-130	1.97	30	
trans-1,3-Dichloropropylene	20.3	0.50	ug/L	20		101	70-130	2.29	30	
1,1-Dichloropropylene	21.6	0.50	ug/L	20		108	70-130	0.139	30	
Diisopropyl ether (DIPE)	20.4	2.0	ug/L	20		102	70-130	4.74	30	
Ethylbenzene	23.5	0.50	ug/L	20		118	70-130	3.50	30	
Ethyl-tert-Butyl Ether (ETBE)	18.7	2.0	ug/L	20		93.7	70-130	3.36	30	
Hexachlorobutadiene	22.2	1.0	ug/L	20		111	70-130	3.06	30	
2-Hexanone (MBK)	19.1	10	ug/L	20		95.6	70-130	10.2	30	
Isopropylbenzene	24.4	0.50	ug/L	20	1.04	117	70-130	0.616	30	
4-Isopropyltoluene	22.2	1.0	ug/L	20		111	70-130	1.22	30	
Methyl-tert-Butyl Ether (MTBE)	37.6	1.0	ug/L	40	0.650	92.4	70-130	1.88	30	
Methylene Chloride	16.5	5.0	ug/L	20		82.4	70-130	1.28	30	
4-Methyl-2-pentanone (MIBK)	18.1	10	ug/L	20		90.4	70-130	16.0	30	
Naphthalene	25.1	2.0	ug/L	20	0.730	122	70-130	1.54	30	
n-Propylbenzene	23.5	0.50	ug/L	20		117	70-130	0.595	30	
Styrene	23.9	0.50	ug/L	20		119	70-130	1.60	30	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J1636 - EPA 5030B

Matrix Spike Dup (B7J1636-MSD1) Source: 7J11015-05 Prepared: 10/13/17 Analyzed: 10/14/17

Continued

1,1,1,2-Tetrachloroethane	22.2	0.50	ug/L	20	111	70-130	2.84	30	
1,1,2,2-Tetrachloroethane	20.7	0.50	ug/L	20	103	70-130	5.96	30	
Tetrachloroethylene (PCE)	23.6	0.50	ug/L	20	118	70-130	2.83	30	
Toluene	21.7	0.50	ug/L	20	108	70-130	0.508	30	
1,2,3-Trichlorobenzene	24.5	0.50	ug/L	20	122	70-130	1.81	30	
1,2,4-Trichlorobenzene	23.4	0.50	ug/L	20	117	70-130	0.858	30	
1,1,1-Trichloroethane	20.6	0.50	ug/L	20	103	70-130	2.16	30	
1,1,2-Trichloroethane	22.1	0.50	ug/L	20	110	70-130	1.53	30	
Trichloroethylene (TCE)	21.4	0.50	ug/L	20	107	70-130	0.988	30	
Trichlorofluoromethane (R11)	18.6	0.50	ug/L	20	93.0	70-130	5.47	30	
1,2,3-Trichloropropane	21.1	0.50	ug/L	20	105	70-130	0.0475	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	17.3	0.50	ug/L	20	86.6	70-130	1.55	30	
1,3,5-Trimethylbenzene	23.0	0.50	ug/L	20	115	70-130	0.565	30	
1,2,4-Trimethylbenzene	22.6	0.50	ug/L	20	113	70-130	0.442	30	
Vinyl chloride	17.4	0.50	ug/L	20	86.9	70-130	5.56	30	
o-Xylene	21.9	0.50	ug/L	20	110	70-130	1.19	30	
m,p-Xylenes	44.8	1.0	ug/L	40	112	70-130	2.55	30	
Surrogate: 4-Bromofluorobenzene	49.0		ug/L	50	97.9	70-140			
Surrogate: Dibromofluoromethane	45.7		ug/L	50	91.4	70-140			
Surrogate: Toluene-d8	50.2		ug/L	50	100	70-140			

VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1227 - EPA 5030B

Blank (B7J1227-BLK1)

Prepared & Analyzed: 10/12/17

Acetone	<10	10	ug/L						
tert-Amyl Methyl Ether (TAME)	<2.0	2.0	ug/L						
Benzene	<0.50	0.50	ug/L						
Bromobenzene	<0.50	0.50	ug/L						
Bromochloromethane	<0.50	0.50	ug/L						
Bromodichloromethane	<0.50	0.50	ug/L						

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1227 - EPA 5030B

Blank (B7J1227-BLK1) Continued

Prepared & Analyzed: 10/12/17

Bromoform	<0.50	0.50	ug/L							
Bromomethane	<0.50	0.50	ug/L							
2-Butanone (MEK)	<10	10	ug/L							
tert-Butyl alcohol (TBA)	<10	10	ug/L							
sec-Butylbenzene	<0.50	0.50	ug/L							
tert-Butylbenzene	<0.50	0.50	ug/L							
n-Butylbenzene	<0.50	0.50	ug/L							
Carbon Disulfide	<0.50	0.50	ug/L							
Carbon Tetrachloride	<0.50	0.50	ug/L							
Chlorobenzene	<0.50	0.50	ug/L							
Chloroethane	<0.50	0.50	ug/L							
Chloroform	<0.50	0.50	ug/L							
Chloromethane	<0.50	0.50	ug/L							
2-Chlorotoluene	<0.50	0.50	ug/L							
4-Chlorotoluene	<0.50	0.50	ug/L							
1,2-Dibromo-3-chloropropane	<1.0	1.0	ug/L							
Dibromochloromethane	<0.50	0.50	ug/L							
1,2-Dibromoethane (EDB)	<0.50	0.50	ug/L							
Dibromomethane	<0.50	0.50	ug/L							
1,3-Dichlorobenzene	<0.50	0.50	ug/L							
1,2-Dichlorobenzene	<0.50	0.50	ug/L							
1,4-Dichlorobenzene	<0.50	0.50	ug/L							
Dichlorodifluoromethane (R12)	<0.50	0.50	ug/L							
1,1-Dichloroethane	<0.50	0.50	ug/L							
1,2-Dichloroethane (EDC)	<0.50	0.50	ug/L							
1,1-Dichloroethylene	<0.50	0.50	ug/L							
trans-1,2-Dichloroethylene	<0.50	0.50	ug/L							
cis-1,2-Dichloroethylene	<0.50	0.50	ug/L							
1,2-Dichloropropane	<0.50	0.50	ug/L							
2,2-Dichloropropane	<0.50	0.50	ug/L							
1,3-Dichloropropane	<0.50	0.50	ug/L							

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1227 - EPA 5030B

Blank (B7J1227-BLK1) Continued

Prepared & Analyzed: 10/12/17

cis-1,3-Dichloropropylene	<0.50	0.50	ug/L
trans-1,3-Dichloropropylene	<0.50	0.50	ug/L
1,1-Dichloropropylene	<0.50	0.50	ug/L
Diisopropyl ether (DIPE)	<2.0	2.0	ug/L
Ethylbenzene	<0.50	0.50	ug/L
Ethyl-tert-Butyl Ether (ETBE)	<2.0	2.0	ug/L
Hexachlorobutadiene	<1.0	1.0	ug/L
2-Hexanone (MBK)	<10	10	ug/L
Isopropylbenzene	<0.50	0.50	ug/L
4-Isopropyltoluene	<1.0	1.0	ug/L
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L
Methylene Chloride	<5.0	5.0	ug/L
4-Methyl-2-pentanone (MIBK)	<10	10	ug/L
Naphthalene	<2.0	2.0	ug/L
n-Propylbenzene	<0.50	0.50	ug/L
Styrene	<0.50	0.50	ug/L
1,1,1,2-Tetrachloroethane	<0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	<0.50	0.50	ug/L
Tetrachloroethylene (PCE)	<0.50	0.50	ug/L
Toluene	<0.50	0.50	ug/L
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L
1,2,4-Trichlorobenzene	<0.50	0.50	ug/L
1,1,1-Trichloroethane	<0.50	0.50	ug/L
1,1,2-Trichloroethane	<0.50	0.50	ug/L
Trichloroethylene (TCE)	<0.50	0.50	ug/L
Trichlorofluoromethane (R11)	<0.50	0.50	ug/L
1,2,3-Trichloropropane	<0.50	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	0.50	ug/L
1,3,5-Trimethylbenzene	<0.50	0.50	ug/L
1,2,4-Trimethylbenzene	<0.50	0.50	ug/L
Vinyl chloride	<0.50	0.50	ug/L

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1227 - EPA 5030B

Blank (B7J1227-BLK1) Continued

Prepared & Analyzed: 10/12/17

o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	57.3		ug/L	50		115	70-140			
Surrogate: Dibromofluoromethane	47.4		ug/L	50		94.8	70-140			
Surrogate: Toluene-d8	52.8		ug/L	50		106	70-140			

LCS (B7J1227-BS1)

Prepared & Analyzed: 10/12/17

Acetone	16.2	10	ug/L	20		80.9	70-130			
tert-Amyl Methyl Ether (TAME)	17.1	2.0	ug/L	20		85.3	70-130			
Benzene	21.2	0.50	ug/L	20		106	75-125			
Bromobenzene	23.7	0.50	ug/L	20		118	70-130			
Bromochloromethane	20.9	0.50	ug/L	20		104	70-130			
Bromodichloromethane	22.8	0.50	ug/L	20		114	75-125			
Bromoform	20.5	0.50	ug/L	20		103	75-125			
Bromomethane	17.1	0.50	ug/L	20		85.4	75-125			
2-Butanone (MEK)	19.3	10	ug/L	20		96.6	70-130			
tert-Butyl alcohol (TBA)	82.2	10	ug/L	100		82.2	70-130			
sec-Butylbenzene	23.7	0.50	ug/L	20		118	70-130			
tert-Butylbenzene	22.2	0.50	ug/L	20		111	70-130			
n-Butylbenzene	21.9	0.50	ug/L	20		110	70-130			
Carbon Disulfide	22.9	0.50	ug/L	20		114	70-130			
Carbon Tetrachloride	23.6	0.50	ug/L	20		118	75-125			
Chlorobenzene	22.2	0.50	ug/L	20		111	75-125			
Chloroethane	16.8	0.50	ug/L	20		83.8	75-125			
Chloroform	22.4	0.50	ug/L	20		112	75-125			
Chloromethane	17.2	0.50	ug/L	20		86.0	65-125			
2-Chlorotoluene	23.6	0.50	ug/L	20		118	70-130			
4-Chlorotoluene	23.2	0.50	ug/L	20		116	70-130			
1,2-Dibromo-3-chloropropane	16.4	1.0	ug/L	20		82.0	70-130			
Dibromochloromethane	22.4	0.50	ug/L	20		112	75-125			
1,2-Dibromoethane (EDB)	17.7	0.50	ug/L	20		88.5	70-130			
Dibromomethane	19.0	0.50	ug/L	20		95.0	70-130			

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1227 - EPA 5030B

LCS (B7J1227-BS1) Continued

Prepared & Analyzed: 10/12/17

1,3-Dichlorobenzene	23.3	0.50	ug/L	20		117	70-130			
1,2-Dichlorobenzene	22.1	0.50	ug/L	20		110	70-130			
1,4-Dichlorobenzene	23.7	0.50	ug/L	20		118	75-125			
Dichlorodifluoromethane (R12)	22.0	0.50	ug/L	20		110	70-130			
1,1-Dichloroethane	22.2	0.50	ug/L	20		111	70-125			
1,2-Dichloroethane (EDC)	19.9	0.50	ug/L	20		99.4	75-125			
1,1-Dichloroethylene	21.9	0.50	ug/L	20		109	70-130			
trans-1,2-Dichloroethylene	22.6	0.50	ug/L	20		113	75-125			
cis-1,2-Dichloroethylene	22.2	0.50	ug/L	20		111	75-125			
1,2-Dichloropropane	21.1	0.50	ug/L	20		105	75-130			
2,2-Dichloropropane	21.6	0.50	ug/L	20		108	70-130			
1,3-Dichloropropane	18.2	0.50	ug/L	20		91.0	70-130			
cis-1,3-Dichloropropylene	18.9	0.50	ug/L	20		94.6	75-125			
trans-1,3-Dichloropropylene	17.8	0.50	ug/L	20		89.0	70-130			
1,1-Dichloropropylene	21.5	0.50	ug/L	20		107	70-130			
Diisopropyl ether (DIPE)	22.1	2.0	ug/L	20		111	70-130			
Ethylbenzene	20.7	0.50	ug/L	20		103	75-125			
Ethyl-tert-Butyl Ether (ETBE)	19.6	2.0	ug/L	20		98.0	70-130			
Hexachlorobutadiene	26.6	1.0	ug/L	20		133	70-130			**
2-Hexanone (MBK)	16.8	10	ug/L	20		84.2	70-130			
Isopropylbenzene	23.3	0.50	ug/L	20		116	70-130			
4-Isopropyltoluene	23.7	1.0	ug/L	20		118	70-130			
Methyl-tert-Butyl Ether (MTBE)	33.5	1.0	ug/L	40		83.7	75-125			
Methylene Chloride	18.6	5.0	ug/L	20		93.1	75-130			
4-Methyl-2-pentanone (MIBK)	21.4	10	ug/L	20		107	70-130			
Naphthalene	17.3	2.0	ug/L	20		86.3	70-130			
n-Propylbenzene	23.2	0.50	ug/L	20		116	70-130			
Styrene	21.9	0.50	ug/L	20		109	70-130			
1,1,1,2-Tetrachloroethane	21.7	0.50	ug/L	20		108	70-130			
1,1,2,2-Tetrachloroethane	15.6	0.50	ug/L	20		77.8	70-135			
Tetrachloroethylene (PCE)	21.5	0.50	ug/L	20		107	75-125			

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1227 - EPA 5030B

LCS (B7J1227-BS1) Continued

Prepared & Analyzed: 10/12/17

Toluene	22.1	0.50	ug/L	20		110	75-125			
1,2,3-Trichlorobenzene	21.4	0.50	ug/L	20		107	70-130			
1,2,4-Trichlorobenzene	22.8	0.50	ug/L	20		114	70-130			
1,1,1-Trichloroethane	23.6	0.50	ug/L	20		118	75-125			
1,1,2-Trichloroethane	17.5	0.50	ug/L	20		87.6	75-125			
Trichloroethylene (TCE)	21.4	0.50	ug/L	20		107	75-125			
Trichlorofluoromethane (R11)	18.6	0.50	ug/L	20		92.8	70-130			
1,2,3-Trichloropropane	16.8	0.50	ug/L	20		84.0	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	21.0	0.50	ug/L	20		105	70-130			
1,3,5-Trimethylbenzene	23.3	0.50	ug/L	20		117	70-130			
1,2,4-Trimethylbenzene	22.5	0.50	ug/L	20		112	70-130			
Vinyl chloride	18.8	0.50	ug/L	20		94.2	75-125			
o-Xylene	22.5	0.50	ug/L	20		113	75-125			
m,p-Xylenes	44.6	1.0	ug/L	40		111	70-130			
Surrogate: 4-Bromofluorobenzene	50.7		ug/L	50		101	70-140			
Surrogate: Dibromofluoromethane	46.8		ug/L	50		93.6	70-140			
Surrogate: Toluene-d8	48.0		ug/L	50		96.0	70-140			

Matrix Spike (B7J1227-MS1)

Source: 7J06001-12 Prepared: 10/12/17 Analyzed: 10/13/17

Acetone	15.1	10	ug/L	20	2.36	63.8	70-130			QM-07
tert-Amyl Methyl Ether (TAME)	15.8	2.0	ug/L	20		78.9	70-130			
Benzene	17.9	0.50	ug/L	20		89.6	70-130			
Bromobenzene	21.3	0.50	ug/L	20		106	70-130			
Bromochloromethane	16.7	0.50	ug/L	20		83.3	70-130			
Bromodichloromethane	20.1	0.50	ug/L	20		101	70-130			
Bromoform	22.1	0.50	ug/L	20		110	70-130			
Bromomethane	23.4	0.50	ug/L	20		117	70-130			
2-Butanone (MEK)	16.8	10	ug/L	20		84.2	70-130			
tert-Butyl alcohol (TBA)	90.0	10	ug/L	100		90.0	70-130			
sec-Butylbenzene	21.8	0.50	ug/L	20		109	70-130			
tert-Butylbenzene	23.3	0.50	ug/L	20		116	70-130			

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1227 - EPA 5030B

Matrix Spike (B7J1227-MS1) Continued Source: 7J06001-12 Prepared: 10/12/17 Analyzed: 10/13/17

n-Butylbenzene	18.8	0.50	ug/L	20		93.8	70-130			
Carbon Disulfide	23.8	0.50	ug/L	20		119	70-130			
Carbon Tetrachloride	24.0	0.50	ug/L	20		120	70-130			
Chlorobenzene	23.4	0.50	ug/L	20		117	70-130			
Chloroethane	21.2	0.50	ug/L	20		106	70-130			
Chloroform	21.1	0.50	ug/L	20		106	70-130			
Chloromethane	18.1	0.50	ug/L	20		90.5	70-130			
2-Chlorotoluene	22.3	0.50	ug/L	20		111	70-130			
4-Chlorotoluene	20.2	0.50	ug/L	20		101	70-130			
1,2-Dibromo-3-chloropropane	15.8	1.0	ug/L	20		79.0	70-130			
Dibromochloromethane	24.5	0.50	ug/L	20		123	70-130			
1,2-Dibromoethane (EDB)	17.4	0.50	ug/L	20		87.1	70-130			
Dibromomethane	21.5	0.50	ug/L	20		107	70-130			
1,3-Dichlorobenzene	20.0	0.50	ug/L	20		100	70-130			
1,2-Dichlorobenzene	19.4	0.50	ug/L	20		96.8	70-130			
1,4-Dichlorobenzene	20.8	0.50	ug/L	20		104	70-130			
Dichlorodifluoromethane (R12)	23.4	0.50	ug/L	20		117	70-130			
1,1-Dichloroethane	20.8	0.50	ug/L	20		104	70-130			
1,2-Dichloroethane (EDC)	19.2	0.50	ug/L	20		96.1	70-130			
1,1-Dichloroethylene	23.3	0.50	ug/L	20		116	70-130			
trans-1,2-Dichloroethylene	19.6	0.50	ug/L	20		98.0	70-130			
cis-1,2-Dichloroethylene	18.7	0.50	ug/L	20		93.6	70-130			
1,2-Dichloropropane	17.6	0.50	ug/L	20		87.8	70-130			
2,2-Dichloropropane	20.1	0.50	ug/L	20		100	70-130			
1,3-Dichloropropane	19.4	0.50	ug/L	20		97.0	70-130			
cis-1,3-Dichloropropylene	19.3	0.50	ug/L	20		96.6	70-130			
trans-1,3-Dichloropropylene	16.1	0.50	ug/L	20		80.6	70-130			
1,1-Dichloropropylene	18.5	0.50	ug/L	20		92.5	70-130			
Diisopropyl ether (DIPE)	19.6	2.0	ug/L	20		98.0	70-130			
Ethylbenzene	22.5	0.50	ug/L	20		112	70-130			
Ethyl-tert-Butyl Ether (ETBE)	16.6	2.0	ug/L	20		82.8	70-130			

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1227 - EPA 5030B

Matrix Spike (B7J1227-MS1) Continued Source: 7J06001-12 Prepared: 10/12/17 Analyzed: 10/13/17

Hexachlorobutadiene	23.0	1.0	ug/L	20		115	70-130			
2-Hexanone (MBK)	16.1	10	ug/L	20		80.4	70-130			
Isopropylbenzene	22.2	0.50	ug/L	20		111	70-130			
4-Isopropyltoluene	21.1	1.0	ug/L	20		106	70-130			
Methyl-tert-Butyl Ether (MTBE)	35.0	1.0	ug/L	40		87.4	70-130			
Methylene Chloride	16.5	5.0	ug/L	20		82.6	70-130			
4-Methyl-2-pentanone (MIBK)	16.7	10	ug/L	20		83.4	70-130			
Naphthalene	21.6	2.0	ug/L	20		108	70-130			
n-Propylbenzene	22.0	0.50	ug/L	20		110	70-130			
Styrene	22.4	0.50	ug/L	20		112	70-130			
1,1,1,2-Tetrachloroethane	24.1	0.50	ug/L	20		121	70-130			
1,1,2,2-Tetrachloroethane	16.7	0.50	ug/L	20		83.6	70-130			
Tetrachloroethylene (PCE)	21.4	0.50	ug/L	20		107	70-130			
Toluene	22.7	0.50	ug/L	20		114	70-130			
1,2,3-Trichlorobenzene	15.7	0.50	ug/L	20		78.6	70-130			
1,2,4-Trichlorobenzene	17.1	0.50	ug/L	20		85.4	70-130			
1,1,1-Trichloroethane	22.5	0.50	ug/L	20		113	70-130			
1,1,2-Trichloroethane	18.5	0.50	ug/L	20		92.3	70-130			
Trichloroethylene (TCE)	18.4	0.50	ug/L	20		91.8	70-130			
Trichlorofluoromethane (R11)	22.7	0.50	ug/L	20		114	70-130			
1,2,3-Trichloropropane	18.0	0.50	ug/L	20		90.0	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	22.5	0.50	ug/L	20		112	70-130			
1,3,5-Trimethylbenzene	22.3	0.50	ug/L	20		112	70-130			
1,2,4-Trimethylbenzene	22.7	0.50	ug/L	20		114	70-130			
Vinyl chloride	18.1	0.50	ug/L	20		90.4	70-130			
o-Xylene	23.7	0.50	ug/L	20		118	70-130			
m,p-Xylenes	44.4	1.0	ug/L	40		111	70-130			
Surrogate: 4-Bromofluorobenzene	48.3		ug/L	50		96.5	70-140			
Surrogate: Dibromofluoromethane	45.3		ug/L	50		90.6	70-140			
Surrogate: Toluene-d8	55.0		ug/L	50		110	70-140			

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17

Analyte	Reporting Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1227 - EPA 5030B

Matrix Spike Dup (B7J1227-MSD1) **Source: 7J06001-12** Prepared: 10/12/17 Analyzed: 10/13/17

Acetone	16.4	10	ug/L	20	2.36	70.0	70-130	7.87	30	
tert-Amyl Methyl Ether (TAME)	17.5	2.0	ug/L	20		87.4	70-130	10.2	30	
Benzene	18.9	0.50	ug/L	20		94.6	70-130	5.32	30	
Bromobenzene	20.4	0.50	ug/L	20		102	70-130	4.41	30	
Bromochloromethane	17.5	0.50	ug/L	20		87.6	70-130	5.03	30	
Bromodichloromethane	21.3	0.50	ug/L	20		106	70-130	5.65	30	
Bromoform	20.2	0.50	ug/L	20		101	70-130	8.84	30	
Bromomethane	22.2	0.50	ug/L	20		111	70-130	5.57	30	
2-Butanone (MEK)	17.3	10	ug/L	20		86.3	70-130	2.40	30	
tert-Butyl alcohol (TBA)	96.0	10	ug/L	100		96.0	70-130	6.50	30	
sec-Butylbenzene	21.5	0.50	ug/L	20		108	70-130	1.52	30	
tert-Butylbenzene	22.6	0.50	ug/L	20		113	70-130	3.05	30	
n-Butylbenzene	19.9	0.50	ug/L	20		99.6	70-130	6.05	30	
Carbon Disulfide	22.4	0.50	ug/L	20		112	70-130	6.06	30	
Carbon Tetrachloride	24.0	0.50	ug/L	20		120	70-130	0.167	30	
Chlorobenzene	22.5	0.50	ug/L	20		112	70-130	4.10	30	
Chloroethane	24.9	0.50	ug/L	20		124	70-130	16.1	30	
Chloroform	21.5	0.50	ug/L	20		108	70-130	1.88	30	
Chloromethane	18.2	0.50	ug/L	20		91.2	70-130	0.716	30	
2-Chlorotoluene	21.2	0.50	ug/L	20		106	70-130	4.82	30	
4-Chlorotoluene	20.0	0.50	ug/L	20		99.9	70-130	1.29	30	
1,2-Dibromo-3-chloropropane	20.6	1.0	ug/L	20		103	70-130	26.4	30	
Dibromochloromethane	22.4	0.50	ug/L	20		112	70-130	8.81	30	
1,2-Dibromoethane (EDB)	16.7	0.50	ug/L	20		83.6	70-130	4.04	30	
Dibromomethane	17.8	0.50	ug/L	20		89.0	70-130	18.7	30	
1,3-Dichlorobenzene	20.5	0.50	ug/L	20		102	70-130	2.42	30	
1,2-Dichlorobenzene	19.7	0.50	ug/L	20		98.6	70-130	1.79	30	
1,4-Dichlorobenzene	20.6	0.50	ug/L	20		103	70-130	0.725	30	
Dichlorodifluoromethane (R12)	23.0	0.50	ug/L	20		115	70-130	1.73	30	
1,1-Dichloroethane	21.1	0.50	ug/L	20		106	70-130	1.24	30	
1,2-Dichloroethane (EDC)	20.5	0.50	ug/L	20		103	70-130	6.64	30	
1,1-Dichloroethylene	21.5	0.50	ug/L	20		107	70-130	8.08	30	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
VOCs & OXYGENATES by GC/MS - Quality Control										
<i>Batch B7J1227 - EPA 5030B</i>										
Matrix Spike Dup (B7J1227-MSD1) Source: 7J06001-12 Prepared: 10/12/17 Analyzed: 10/13/17										
Continued										
trans-1,2-Dichloroethylene	20.1	0.50	ug/L	20	100	70-130	2.37	30		
cis-1,2-Dichloroethylene	19.5	0.50	ug/L	20	97.4	70-130	3.98	30		
1,2-Dichloropropane	18.5	0.50	ug/L	20	92.5	70-130	5.27	30		
2,2-Dichloropropane	20.6	0.50	ug/L	20	103	70-130	2.21	30		
1,3-Dichloropropane	17.8	0.50	ug/L	20	89.0	70-130	8.60	30		
cis-1,3-Dichloropropylene	17.4	0.50	ug/L	20	86.8	70-130	10.6	30		
trans-1,3-Dichloropropylene	16.4	0.50	ug/L	20	82.0	70-130	1.72	30		
1,1-Dichloropropylene	19.4	0.50	ug/L	20	97.1	70-130	4.85	30		
Diisopropyl ether (DIPE)	20.6	2.0	ug/L	20	103	70-130	4.78	30		
Ethylbenzene	21.7	0.50	ug/L	20	109	70-130	3.39	30		
Ethyl-tert-Butyl Ether (ETBE)	17.4	2.0	ug/L	20	87.0	70-130	5.06	30		
Hexachlorobutadiene	23.5	1.0	ug/L	20	117	70-130	2.07	30		
2-Hexanone (MBK)	16.1	10	ug/L	20	80.7	70-130	0.372	30		
Isopropylbenzene	21.1	0.50	ug/L	20	106	70-130	5.04	30		
4-Isopropyltoluene	21.3	1.0	ug/L	20	106	70-130	0.708	30		
Methyl-tert-Butyl Ether (MTBE)	35.0	1.0	ug/L	40	87.4	70-130	0.0286	30		
Methylene Chloride	16.8	5.0	ug/L	20	84.0	70-130	1.68	30		
4-Methyl-2-pentanone (MIBK)	16.9	10	ug/L	20	84.4	70-130	1.19	30		
Naphthalene	22.0	2.0	ug/L	20	110	70-130	1.88	30		
n-Propylbenzene	21.2	0.50	ug/L	20	106	70-130	3.33	30		
Styrene	21.9	0.50	ug/L	20	109	70-130	2.39	30		
1,1,1,2-Tetrachloroethane	23.0	0.50	ug/L	20	115	70-130	4.76	30		
1,1,2,2-Tetrachloroethane	15.5	0.50	ug/L	20	77.7	70-130	7.32	30		
Tetrachloroethylene (PCE)	22.5	0.50	ug/L	20	112	70-130	4.97	30		
Toluene	21.9	0.50	ug/L	20	109	70-130	3.86	30		
1,2,3-Trichlorobenzene	18.5	0.50	ug/L	20	92.6	70-130	16.3	30		
1,2,4-Trichlorobenzene	19.3	0.50	ug/L	20	96.3	70-130	12.0	30		
1,1,1-Trichloroethane	23.0	0.50	ug/L	20	115	70-130	1.93	30		
1,1,2-Trichloroethane	17.6	0.50	ug/L	20	88.0	70-130	4.83	30		
Trichloroethylene (TCE)	18.8	0.50	ug/L	20	94.0	70-130	2.26	30		
Trichlorofluoromethane (R11)	24.9	0.50	ug/L	20	125	70-130	9.28	30		

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1227 - EPA 5030B

Matrix Spike Dup (B7J1227-MSD1) Source: 7J06001-12 Prepared: 10/12/17 Analyzed: 10/13/17
Continued

1,2,3-Trichloropropane	17.3	0.50	ug/L	20		86.4	70-130	4.08	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	20.6	0.50	ug/L	20		103	70-130	8.72	30	
1,3,5-Trimethylbenzene	22.2	0.50	ug/L	20		111	70-130	0.494	30	
1,2,4-Trimethylbenzene	23.1	0.50	ug/L	20		115	70-130	1.48	30	
Vinyl chloride	17.4	0.50	ug/L	20		87.2	70-130	3.55	30	
o-Xylene	22.8	0.50	ug/L	20		114	70-130	3.78	30	
m,p-Xylenes	46.7	1.0	ug/L	40		117	70-130	4.92	30	
Surrogate: 4-Bromofluorobenzene	46.9		ug/L	50		93.7	70-140			
Surrogate: Dibromofluoromethane	48.6		ug/L	50		97.3	70-140			
Surrogate: Toluene-d8	54.8		ug/L	50		110	70-140			

Batch B7J1636 - EPA 5030B

Blank (B7J1636-BLK1)

Prepared & Analyzed: 10/13/17

Acetone	<10	10	ug/L							
tert-Amyl Methyl Ether (TAME)	<2.0	2.0	ug/L							
Benzene	<0.50	0.50	ug/L							
Bromobenzene	<0.50	0.50	ug/L							
Bromochloromethane	<0.50	0.50	ug/L							
Bromodichloromethane	<0.50	0.50	ug/L							
Bromoform	<0.50	0.50	ug/L							
Bromomethane	<0.50	0.50	ug/L							
2-Butanone (MEK)	<10	10	ug/L							
tert-Butyl alcohol (TBA)	<10	10	ug/L							
sec-Butylbenzene	<0.50	0.50	ug/L							
tert-Butylbenzene	<0.50	0.50	ug/L							
n-Butylbenzene	<0.50	0.50	ug/L							
Carbon Disulfide	<0.50	0.50	ug/L							
Carbon Tetrachloride	<0.50	0.50	ug/L							
Chlorobenzene	<0.50	0.50	ug/L							
Chloroethane	<0.50	0.50	ug/L							

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1636 - EPA 5030B

Blank (B7J1636-BLK1) Continued

Prepared & Analyzed: 10/13/17

Chloroform	<0.50	0.50	ug/L
Chloromethane	<0.50	0.50	ug/L
2-Chlorotoluene	<0.50	0.50	ug/L
4-Chlorotoluene	<0.50	0.50	ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0	ug/L
Dibromochloromethane	<0.50	0.50	ug/L
1,2-Dibromoethane (EDB)	<0.50	0.50	ug/L
Dibromomethane	<0.50	0.50	ug/L
1,3-Dichlorobenzene	<0.50	0.50	ug/L
1,2-Dichlorobenzene	<0.50	0.50	ug/L
1,4-Dichlorobenzene	<0.50	0.50	ug/L
Dichlorodifluoromethane (R12)	<0.50	0.50	ug/L
1,1-Dichloroethane	<0.50	0.50	ug/L
1,2-Dichloroethane (EDC)	<0.50	0.50	ug/L
1,1-Dichloroethylene	<0.50	0.50	ug/L
trans-1,2-Dichloroethylene	<0.50	0.50	ug/L
cis-1,2-Dichloroethylene	<0.50	0.50	ug/L
1,2-Dichloropropane	<0.50	0.50	ug/L
2,2-Dichloropropane	<0.50	0.50	ug/L
1,3-Dichloropropane	<0.50	0.50	ug/L
cis-1,3-Dichloropropylene	<0.50	0.50	ug/L
trans-1,3-Dichloropropylene	<0.50	0.50	ug/L
1,1-Dichloropropylene	<0.50	0.50	ug/L
Diisopropyl ether (DIPE)	<2.0	2.0	ug/L
Ethylbenzene	<0.50	0.50	ug/L
Ethyl-tert-Butyl Ether (ETBE)	<2.0	2.0	ug/L
Hexachlorobutadiene	<1.0	1.0	ug/L
2-Hexanone (MBK)	<10	10	ug/L
Isopropylbenzene	<0.50	0.50	ug/L
4-Isopropyltoluene	<1.0	1.0	ug/L
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1636 - EPA 5030B

Blank (B7J1636-BLK1) Continued

Prepared & Analyzed: 10/13/17

Methylene Chloride	<5.0	5.0	ug/L
4-Methyl-2-pentanone (MIBK)	<10	10	ug/L
Naphthalene	<2.0	2.0	ug/L
n-Propylbenzene	<0.50	0.50	ug/L
Styrene	<0.50	0.50	ug/L
1,1,1,2-Tetrachloroethane	<0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	<0.50	0.50	ug/L
Tetrachloroethylene (PCE)	<0.50	0.50	ug/L
Toluene	<0.50	0.50	ug/L
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L
1,2,4-Trichlorobenzene	<0.50	0.50	ug/L
1,1,1-Trichloroethane	<0.50	0.50	ug/L
1,1,2-Trichloroethane	<0.50	0.50	ug/L
Trichloroethylene (TCE)	<0.50	0.50	ug/L
Trichlorofluoromethane (R11)	<0.50	0.50	ug/L
1,2,3-Trichloropropane	<0.50	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	0.50	ug/L
1,3,5-Trimethylbenzene	<0.50	0.50	ug/L
1,2,4-Trimethylbenzene	<0.50	0.50	ug/L
Vinyl chloride	<0.50	0.50	ug/L
o-Xylene	<0.50	0.50	ug/L
m,p-Xylenes	<1.0	1.0	ug/L

Surrogate: 4-Bromofluorobenzene	48.5		ug/L	50		97.1	70-140
Surrogate: Dibromofluoromethane	49.4		ug/L	50		98.8	70-140
Surrogate: Toluene-d8	50.8		ug/L	50		102	70-140

LCS (B7J1636-BS1)

Prepared & Analyzed: 10/13/17

Acetone	20.8	10	ug/L	20		104	70-130
tert-Amyl Methyl Ether (TAME)	16.6	2.0	ug/L	20		83.0	70-130
Benzene	19.9	0.50	ug/L	20		99.4	75-125
Bromobenzene	22.2	0.50	ug/L	20		111	70-130

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1636 - EPA 5030B

LCS (B7J1636-BS1) Continued

Prepared & Analyzed: 10/13/17

Bromochloromethane	19.8	0.50	ug/L	20		99.2	70-130			
Bromodichloromethane	19.1	0.50	ug/L	20		95.3	75-125			
Bromoform	21.0	0.50	ug/L	20		105	75-125			
Bromomethane	18.6	0.50	ug/L	20		93.0	75-125			
2-Butanone (MEK)	20.0	10	ug/L	20		100	70-130			
tert-Butyl alcohol (TBA)	92.1	10	ug/L	100		92.1	70-130			
sec-Butylbenzene	22.1	0.50	ug/L	20		110	70-130			
tert-Butylbenzene	22.4	0.50	ug/L	20		112	70-130			
n-Butylbenzene	22.4	0.50	ug/L	20		112	70-130			
Carbon Disulfide	19.0	0.50	ug/L	20		95.0	70-130			
Carbon Tetrachloride	20.5	0.50	ug/L	20		102	75-125			
Chlorobenzene	21.9	0.50	ug/L	20		109	75-125			
Chloroethane	18.3	0.50	ug/L	20		91.5	75-125			
Chloroform	19.4	0.50	ug/L	20		97.0	75-125			
Chloromethane	18.0	0.50	ug/L	20		90.2	65-125			
2-Chlorotoluene	21.5	0.50	ug/L	20		108	70-130			
4-Chlorotoluene	21.1	0.50	ug/L	20		106	70-130			
1,2-Dibromo-3-chloropropane	17.3	1.0	ug/L	20		86.6	70-130			
Dibromochloromethane	20.5	0.50	ug/L	20		102	75-125			
1,2-Dibromoethane (EDB)	20.3	0.50	ug/L	20		102	70-130			
Dibromomethane	19.3	0.50	ug/L	20		96.6	70-130			
1,3-Dichlorobenzene	20.9	0.50	ug/L	20		105	70-130			
1,2-Dichlorobenzene	22.0	0.50	ug/L	20		110	70-130			
1,4-Dichlorobenzene	21.1	0.50	ug/L	20		105	75-125			
Dichlorodifluoromethane (R12)	18.2	0.50	ug/L	20		91.0	70-130			
1,1-Dichloroethane	19.6	0.50	ug/L	20		98.0	70-125			
1,2-Dichloroethane (EDC)	17.9	0.50	ug/L	20		89.4	75-125			
1,1-Dichloroethylene	19.3	0.50	ug/L	20		96.3	70-130			
trans-1,2-Dichloroethylene	21.3	0.50	ug/L	20		107	75-125			
cis-1,2-Dichloroethylene	20.7	0.50	ug/L	20		103	75-125			
1,2-Dichloropropane	19.2	0.50	ug/L	20		95.8	75-130			

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1636 - EPA 5030B

LCS (B7J1636-BS1) Continued

Prepared & Analyzed: 10/13/17

2,2-Dichloropropane	20.0	0.50	ug/L	20	100	70-130
1,3-Dichloropropane	19.8	0.50	ug/L	20	99.2	70-130
cis-1,3-Dichloropropylene	20.2	0.50	ug/L	20	101	75-125
trans-1,3-Dichloropropylene	20.7	0.50	ug/L	20	103	70-130
1,1-Dichloropropylene	21.1	0.50	ug/L	20	106	70-130
Diisopropyl ether (DIPE)	19.1	2.0	ug/L	20	95.7	70-130
Ethylbenzene	22.6	0.50	ug/L	20	113	75-125
Ethyl-tert-Butyl Ether (ETBE)	18.8	2.0	ug/L	20	93.8	70-130
Hexachlorobutadiene	23.1	1.0	ug/L	20	115	70-130
2-Hexanone (MBK)	18.5	10	ug/L	20	92.6	70-130
Isopropylbenzene	22.7	0.50	ug/L	20	114	70-130
4-Isopropyltoluene	21.5	1.0	ug/L	20	108	70-130
Methyl-tert-Butyl Ether (MTBE)	34.6	1.0	ug/L	40	86.6	75-125
Methylene Chloride	17.4	5.0	ug/L	20	87.1	75-130
4-Methyl-2-pentanone (MIBK)	17.5	10	ug/L	20	87.4	70-130
Naphthalene	22.2	2.0	ug/L	20	111	70-130
n-Propylbenzene	22.5	0.50	ug/L	20	112	70-130
Styrene	22.8	0.50	ug/L	20	114	70-130
1,1,1,2-Tetrachloroethane	21.4	0.50	ug/L	20	107	70-130
1,1,2,2-Tetrachloroethane	19.6	0.50	ug/L	20	98.2	70-135
Tetrachloroethylene (PCE)	23.4	0.50	ug/L	20	117	75-125
Toluene	20.9	0.50	ug/L	20	105	75-125
1,2,3-Trichlorobenzene	23.4	0.50	ug/L	20	117	70-130
1,2,4-Trichlorobenzene	23.2	0.50	ug/L	20	116	70-130
1,1,1-Trichloroethane	19.8	0.50	ug/L	20	98.8	75-125
1,1,2-Trichloroethane	20.7	0.50	ug/L	20	103	75-125
Trichloroethylene (TCE)	20.3	0.50	ug/L	20	102	75-125
Trichlorofluoromethane (R11)	19.1	0.50	ug/L	20	95.6	70-130
1,2,3-Trichloropropane	18.2	0.50	ug/L	20	91.0	70-130
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	18.5	0.50	ug/L	20	92.6	70-130
1,3,5-Trimethylbenzene	21.9	0.50	ug/L	20	110	70-130

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1636 - EPA 5030B

LCS (B7J1636-BS1) Continued

Prepared & Analyzed: 10/13/17

1,2,4-Trimethylbenzene	21.8	0.50	ug/L	20	109	70-130				
Vinyl chloride	18.0	0.50	ug/L	20	90.0	75-125				
o-Xylene	21.2	0.50	ug/L	20	106	75-125				
m,p-Xylenes	43.3	1.0	ug/L	40	108	70-130				

Surrogate: 4-Bromofluorobenzene	48.7		ug/L	50	97.4	70-140				
Surrogate: Dibromofluoromethane	45.4		ug/L	50	90.8	70-140				
Surrogate: Toluene-d8	49.6		ug/L	50	99.2	70-140				

Matrix Spike (B7J1636-MS1)

Source: 7J11015-05 Prepared: 10/13/17 Analyzed: 10/14/17

Acetone	33.5	10	ug/L	20	15.0	92.6	70-130			
tert-Amyl Methyl Ether (TAME)	17.0	2.0	ug/L	20	<2.0	85.0	70-130			
Benzene	38.2	0.50	ug/L	20	21.2	85.1	70-130			
Bromobenzene	22.6	0.50	ug/L	20	<0.50	113	70-130			
Bromochloromethane	20.9	0.50	ug/L	20	<0.50	104	70-130			
Bromodichloromethane	20.1	0.50	ug/L	20	<0.50	101	70-130			
Bromoform	22.9	0.50	ug/L	20	<0.50	114	70-130			
Bromomethane	16.4	0.50	ug/L	20	<0.50	82.0	70-130			
2-Butanone (MEK)	23.8	10	ug/L	20	<10	119	70-130			
tert-Butyl alcohol (TBA)	91.9	10	ug/L	100	<10	91.9	70-130			
sec-Butylbenzene	22.7	0.50	ug/L	20	<0.50	113	70-130			
tert-Butylbenzene	23.4	0.50	ug/L	20	0.410	115	70-130			
n-Butylbenzene	22.7	0.50	ug/L	20	<0.50	113	70-130			
Carbon Disulfide	18.6	0.50	ug/L	20	<0.50	93.2	70-130			
Carbon Tetrachloride	20.5	0.50	ug/L	20	<0.50	102	70-130			
Chlorobenzene	22.3	0.50	ug/L	20	<0.50	112	70-130			
Chloroethane	18.1	0.50	ug/L	20	<0.50	90.4	70-130			
Chloroform	20.0	0.50	ug/L	20	<0.50	100	70-130			
Chloromethane	17.4	0.50	ug/L	20	<0.50	87.2	70-130			
2-Chlorotoluene	22.7	0.50	ug/L	20	<0.50	113	70-130			
4-Chlorotoluene	22.0	0.50	ug/L	20	<0.50	110	70-130			
1,2-Dibromo-3-chloropropane	21.8	1.0	ug/L	20	<1.0	109	70-130			
Dibromochloromethane	22.6	0.50	ug/L	20	<0.50	113	70-130			

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1636 - EPA 5030B

Matrix Spike (B7J1636-MS1) Continued Source: 7J11015-05 Prepared: 10/13/17 Analyzed: 10/14/17

1,2-Dibromoethane (EDB)	21.7	0.50	ug/L	20	<0.50	109	70-130			
Dibromomethane	20.3	0.50	ug/L	20	<0.50	102	70-130			
1,3-Dichlorobenzene	22.2	0.50	ug/L	20	<0.50	111	70-130			
1,2-Dichlorobenzene	23.1	0.50	ug/L	20	<0.50	116	70-130			
1,4-Dichlorobenzene	22.0	0.50	ug/L	20	<0.50	110	70-130			
Dichlorodifluoromethane (R12)	16.3	0.50	ug/L	20	<0.50	81.4	70-130			
1,1-Dichloroethane	20.2	0.50	ug/L	20	<0.50	101	70-130			
1,2-Dichloroethane (EDC)	19.3	0.50	ug/L	20	<0.50	96.6	70-130			
1,1-Dichloroethylene	19.4	0.50	ug/L	20	<0.50	96.8	70-130			
trans-1,2-Dichloroethylene	21.1	0.50	ug/L	20	<0.50	106	70-130			
cis-1,2-Dichloroethylene	21.4	0.50	ug/L	20	0.480	105	70-130			
1,2-Dichloropropane	21.1	0.50	ug/L	20	<0.50	106	70-130			
2,2-Dichloropropane	17.3	0.50	ug/L	20	<0.50	86.6	70-130			
1,3-Dichloropropane	21.5	0.50	ug/L	20	<0.50	107	70-130			
cis-1,3-Dichloropropylene	20.5	0.50	ug/L	20	<0.50	103	70-130			
trans-1,3-Dichloropropylene	20.7	0.50	ug/L	20	<0.50	104	70-130			
1,1-Dichloropropylene	21.6	0.50	ug/L	20	<0.50	108	70-130			
Diisopropyl ether (DIPE)	21.4	2.0	ug/L	20	<2.0	107	70-130			
Ethylbenzene	22.7	0.50	ug/L	20	<0.50	114	70-130			
Ethyl-tert-Butyl Ether (ETBE)	19.4	2.0	ug/L	20	<2.0	96.9	70-130			
Hexachlorobutadiene	21.6	1.0	ug/L	20	<1.0	108	70-130			
2-Hexanone (MBK)	21.2	10	ug/L	20	<10	106	70-130			
Isopropylbenzene	24.3	0.50	ug/L	20	1.04	116	70-130			
4-Isopropyltoluene	21.9	1.0	ug/L	20	<1.0	110	70-130			
Methyl-tert-Butyl Ether (MTBE)	36.9	1.0	ug/L	40	0.650	90.6	70-130			
Methylene Chloride	16.3	5.0	ug/L	20	<5.0	81.3	70-130			
4-Methyl-2-pentanone (MIBK)	21.2	10	ug/L	20	<10	106	70-130			
Naphthalene	25.5	2.0	ug/L	20	0.730	124	70-130			
n-Propylbenzene	23.6	0.50	ug/L	20	<0.50	118	70-130			
Styrene	23.5	0.50	ug/L	20	<0.50	118	70-130			
1,1,1,2-Tetrachloroethane	22.9	0.50	ug/L	20	<0.50	114	70-130			

Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1636 - EPA 5030B

Matrix Spike (B7J1636-MS1) Continued Source: 7J11015-05 Prepared: 10/13/17 Analyzed: 10/14/17

1,1,2,2-Tetrachloroethane	21.9	0.50	ug/L	20	<0.50	110	70-130			
Tetrachloroethylene (PCE)	23.0	0.50	ug/L	20	<0.50	115	70-130			
Toluene	21.6	0.50	ug/L	20	<0.50	108	70-130			
1,2,3-Trichlorobenzene	24.0	0.50	ug/L	20	<0.50	120	70-130			
1,2,4-Trichlorobenzene	23.2	0.50	ug/L	20	<0.50	116	70-130			
1,1,1-Trichloroethane	20.2	0.50	ug/L	20	<0.50	101	70-130			
1,1,2-Trichloroethane	22.4	0.50	ug/L	20	<0.50	112	70-130			
Trichloroethylene (TCE)	21.2	0.50	ug/L	20	<0.50	106	70-130			
Trichlorofluoromethane (R11)	17.6	0.50	ug/L	20	<0.50	88.1	70-130			
1,2,3-Trichloropropane	21.1	0.50	ug/L	20	<0.50	105	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	17.6	0.50	ug/L	20	<0.50	88.0	70-130			
1,3,5-Trimethylbenzene	23.1	0.50	ug/L	20	<0.50	115	70-130			
1,2,4-Trimethylbenzene	22.7	0.50	ug/L	20	<0.50	113	70-130			
Vinyl chloride	16.4	0.50	ug/L	20	<0.50	82.2	70-130			
o-Xylene	21.7	0.50	ug/L	20	<0.50	108	70-130			
m,p-Xylenes	43.7	1.0	ug/L	40	<1.0	109	70-130			

Surrogate: 4-Bromofluorobenzene	48.8		ug/L	50		97.6	70-140			
Surrogate: Dibromofluoromethane	46.9		ug/L	50		93.8	70-140			
Surrogate: Toluene-d8	50.2		ug/L	50		100	70-140			

Matrix Spike Dup (B7J1636-MSD1) Source: 7J11015-05 Prepared: 10/13/17 Analyzed: 10/14/17

Acetone	34.1	10	ug/L	20	15.0	95.4	70-130	1.69	30	
tert-Amyl Methyl Ether (TAME)	16.6	2.0	ug/L	20	<2.0	82.8	70-130	2.74	30	
Benzene	37.9	0.50	ug/L	20	21.2	83.8	70-130	0.709	30	
Bromobenzene	22.8	0.50	ug/L	20	<0.50	114	70-130	1.10	30	
Bromochloromethane	20.3	0.50	ug/L	20	<0.50	102	70-130	2.72	30	
Bromodichloromethane	19.8	0.50	ug/L	20	<0.50	99.0	70-130	1.70	30	
Bromoform	22.2	0.50	ug/L	20	<0.50	111	70-130	2.93	30	
Bromomethane	18.5	0.50	ug/L	20	<0.50	92.6	70-130	12.1	30	
2-Butanone (MEK)	21.1	10	ug/L	20	<10	105	70-130	12.2	30	
tert-Butyl alcohol (TBA)	90.2	10	ug/L	100	<10	90.2	70-130	1.90	30	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1636 - EPA 5030B

Matrix Spike Dup (B7J1636-MSD1) Source: 7J11015-05 Prepared: 10/13/17 Analyzed: 10/14/17

Continued

sec-Butylbenzene	22.9	0.50	ug/L	20	<0.50	115	70-130	1.10	30	
tert-Butylbenzene	23.7	0.50	ug/L	20	0.410	116	70-130	1.27	30	
n-Butylbenzene	22.8	0.50	ug/L	20	<0.50	114	70-130	0.747	30	
Carbon Disulfide	19.6	0.50	ug/L	20	<0.50	98.1	70-130	5.18	30	
Carbon Tetrachloride	20.5	0.50	ug/L	20	<0.50	102	70-130	0.0488	30	
Chlorobenzene	23.0	0.50	ug/L	20	<0.50	115	70-130	2.95	30	
Chloroethane	18.5	0.50	ug/L	20	<0.50	92.7	70-130	2.46	30	
Chloroform	20.0	0.50	ug/L	20	<0.50	100	70-130	0.0999	30	
Chloromethane	18.0	0.50	ug/L	20	<0.50	90.2	70-130	3.49	30	
2-Chlorotoluene	22.4	0.50	ug/L	20	<0.50	112	70-130	1.20	30	
4-Chlorotoluene	22.2	0.50	ug/L	20	<0.50	111	70-130	0.634	30	
1,2-Dibromo-3-chloropropane	19.0	1.0	ug/L	20	<1.0	95.2	70-130	13.7	30	
Dibromochloromethane	22.3	0.50	ug/L	20	<0.50	112	70-130	1.16	30	
1,2-Dibromoethane (EDB)	21.5	0.50	ug/L	20	<0.50	108	70-130	1.02	30	
Dibromomethane	19.7	0.50	ug/L	20	<0.50	98.3	70-130	3.40	30	
1,3-Dichlorobenzene	22.4	0.50	ug/L	20	<0.50	112	70-130	0.853	30	
1,2-Dichlorobenzene	22.8	0.50	ug/L	20	<0.50	114	70-130	1.57	30	
1,4-Dichlorobenzene	21.8	0.50	ug/L	20	<0.50	109	70-130	0.594	30	
Dichlorodifluoromethane (R12)	16.6	0.50	ug/L	20	<0.50	83.0	70-130	1.82	30	
1,1-Dichloroethane	20.6	0.50	ug/L	20	<0.50	103	70-130	2.20	30	
1,2-Dichloroethane (EDC)	19.0	0.50	ug/L	20	<0.50	95.0	70-130	1.57	30	
1,1-Dichloroethylene	19.9	0.50	ug/L	20	<0.50	99.7	70-130	2.90	30	
trans-1,2-Dichloroethylene	21.7	0.50	ug/L	20	<0.50	108	70-130	2.52	30	
cis-1,2-Dichloroethylene	21.9	0.50	ug/L	20	0.480	107	70-130	2.08	30	
1,2-Dichloropropane	20.7	0.50	ug/L	20	<0.50	104	70-130	1.96	30	
2,2-Dichloropropane	17.3	0.50	ug/L	20	<0.50	86.6	70-130	0.00	30	
1,3-Dichloropropane	20.8	0.50	ug/L	20	<0.50	104	70-130	3.41	30	
cis-1,3-Dichloropropylene	20.1	0.50	ug/L	20	<0.50	101	70-130	1.97	30	
trans-1,3-Dichloropropylene	20.3	0.50	ug/L	20	<0.50	101	70-130	2.29	30	
1,1-Dichloropropylene	21.6	0.50	ug/L	20	<0.50	108	70-130	0.139	30	
Diisopropyl ether (DIPE)	20.4	2.0	ug/L	20	<2.0	102	70-130	4.74	30	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17

Table with 11 columns: Analyte, Reporting Result, Reporting Limit, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Notes

VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1636 - EPA 5030B

Matrix Spike Dup (B7J1636-MSD1) Source: 7J11015-05 Prepared: 10/13/17 Analyzed: 10/14/17

Continued

Main data table listing analytes such as Ethylbenzene, Hexachlorobutadiene, etc., with their respective results and limits.

Handwritten signature

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J1636 - EPA 5030B

Matrix Spike Dup (B7J1636-MSD1) Source: 7J11015-05 Prepared: 10/13/17 Analyzed: 10/14/17
Continued

Surrogate: 4-Bromofluorobenzene	49.0		ug/L	50		97.9	70-140			
Surrogate: Dibromofluoromethane	45.7		ug/L	50		91.4	70-140			
Surrogate: Toluene-d8	50.2		ug/L	50		100	70-140			

Diesel Range Organics by GC/FID - Quality Control

Batch B7J1225 - EPA 3510C

Blank (B7J1225-BLK1) Prepared & Analyzed: 10/12/17

Diesel Range Organics as Diesel	<0.10	0.10	mg/L							
Surrogate: o-Terphenyl	0.0337		mg/L	0.040		84.2	50-150			

LCS (B7J1225-BS1) Prepared & Analyzed: 10/12/17

Diesel Range Organics as Diesel	0.628	0.10	mg/L	0.80		78.4	75-125			
Surrogate: o-Terphenyl	0.0294		mg/L	0.040		73.5	50-150			

LCS Dup (B7J1225-BSD1) Prepared & Analyzed: 10/12/17

Diesel Range Organics as Diesel	0.688	0.10	mg/L	0.80		86.1	75-125	9.27	30	
Surrogate: o-Terphenyl	0.0358		mg/L	0.040		89.4	50-150			

Gasoline Range Organics by GC/FID - Quality Control

Batch B7J1228 - EPA 5030B

Blank (B7J1228-BLK1) Prepared & Analyzed: 10/12/17

Gasoline Range Organics (GRO)	<100	100	ug/L							
Surrogate: a,a,a-Trifluorotoluene	48.4		ug/L	50		96.7	80-120			

LCS (B7J1228-BS1) Prepared & Analyzed: 10/12/17

Gasoline Range Organics (GRO)	402	100	ug/L	500		80.4	75-125			
Surrogate: a,a,a-Trifluorotoluene	46.3		ug/L	50		92.6	80-120			

LCS Dup (B7J1228-BSD1) Prepared & Analyzed: 10/12/17

Gasoline Range Organics (GRO)	454	100	ug/L	500		90.8	75-125	12.2	30	
Surrogate: a,a,a-Trifluorotoluene	49.1		ug/L	50		98.2	80-120			

Batch B7J1728 - EPA 5030B

Blank (B7J1728-BLK1) Prepared & Analyzed: 10/13/17

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17

Analyte	Reporting Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
Gasoline Range Organics by GC/FID - Quality Control										
<i>Batch B7J1728 - EPA 5030B</i>										
Gasoline Range Organics (GRO)	<100	100	ug/L							
Surrogate: a,a,a-Trifluorotoluene	47.7		ug/L	50		95.4	80-120			
LCS (B7J1728-BS1)				Prepared & Analyzed: 10/13/17						
Gasoline Range Organics (GRO)	430	100	ug/L	500		86.0	75-125			
Surrogate: a,a,a-Trifluorotoluene	48.4		ug/L	50		96.8	80-120			
LCS Dup (B7J1728-BSD1)				Prepared & Analyzed: 10/13/17						
Gasoline Range Organics (GRO)	443	100	ug/L	500		88.6	75-125	3.01	30	
Surrogate: a,a,a-Trifluorotoluene	49.3		ug/L	50		98.7	80-120			

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332325
Date Received: 10/11/17
Date Reported: 10/18/17

Special Notes

[1] = ** : Exceeds upper control limit.

[2] = QM-07 : The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Viorel Vasile
Operations Manager



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

Tel: 818-998-5547 FAX: 818-998-7258

A.A. COC No.: 13824

70049782

Page 1 of 2

Client: <u>APEX-56Z</u>	Project Name / No.: <u>DFSP Norwalk</u>	Sampler's Name: <u>DAVID LOBBAN</u>
Project Manager: <u>DAN SWENSSON</u>	Site Address: <u>15306 Norwalk Blvd</u>	Sampler's Signature: <u>[Signature]</u>
Phone: <u>1-562-597-1055</u>	City: <u>Norwalk</u>	P.O. No.: <u>—</u>
Fax: <u>1-562-597-1070</u>	State & Zip: <u>Ca 90850</u>	Quote No.: <u>—</u>

TAT Turnaround Codes **

- ① = Same Day Rush
- ② = 24 Hour Rush
- ③ = 48 Hour Rush
- ④ = 72 Hour Rush
- ⑤ = 5 Day Rush
- X = 10 Working Days (Standard TAT)

ANALYSIS REQUESTED (Test Name)

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	Please enter the TAT Turnaround Codes ** below										Special Instructions		
						8015mD	8260B	8015mTPH-6										
GCTB-1	7211015-01	10-9-17	6 ⁰⁰	GW	2		X											
GCEB-1	02	10-9-17	8 ³⁰ am	GW	2		X											
GMW-17R	03	10-9-17	9 ²⁰	GW	7	X	X	X										
TF-21	04	10-9-17	10 ⁰⁰	GW	7	X	X	X										
GMW-58	05	10-9-17	10 ⁴⁰	GW	7	X	X	X										
GMW-60	06	10-9-17	11 ³⁰	GW	7	X	X	X										
GMW-61	07	10-9-17	12 ¹⁰	GW	7	X	X	X										
GW-15	08	10-9-17	12 ⁴⁵	GW	7	X	X	X										
GMW-59	09	10-9-17	1 ²⁰	BW	7	X	X	X										
GMW-48	10	10-9-17	1 ⁵⁵	GW	7	X	X	X										
DUP-7	11	10-9-17	XXXX	GW	7	X	X	X										
GMW-35R	12	10-9-17	2 ³⁰	GW	7	X	X	X										
GCEB-1	13	10-10-17	8 ⁰⁰	GW	2		X											
TF-20R	14	10-10-17	8 ⁵⁰	GW	7	X	X	X										
PZ-3	15	10-10-17	10 ⁰⁰	GW	7	X	X	X										

SAMPLE INTEGRITY INTACT (Y) IN TEMP 5°C

For Laboratory Use

REVIEWED

Date 10/11/17 Time 1600

TAT N Days Sign: [Signature]

A.A. Project No.: AS332325/7211015

Relinquished by <u>[Signature]</u>	Date <u>10-11-17</u>	Time <u>12:30</u>	Received by <u>[Signature]</u>
Relinquished by <u>[Signature]</u>	Date <u>10/11/17</u>	Time <u>1534</u>	Received by <u>[Signature]</u>
Relinquished by	Date	Time	Received by

Note: By relinquishing samples to American Analytics, client agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analytics.



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

Tel: 818-998-5547 FAX: 818-998-7258

A.A. COC No.: 13825

70049783

Page 2 of 2

Client: APEX S&I **Project Name / No.:** DFSP SAND Norwalk **Sampler's Name:** DAVID Wiggam
Project Manager: DAN SWENSSON **Site Address:** 15306 Norwalk Blvd. **Sampler's Signature:** [Signature]
Phone: 1-562-597-1055 **City:** NORWALK **P.O. No.:** -
Fax: 1-562-597-1070 **State & Zip:** Ca **Quote No.:** -

TAT Turnaround Codes **

- ① = Same Day Rush
- ② = 24 Hour Rush
- ③ = 48 Hour Rush
- ④ = 72 Hour Rush
- ⑤ = 5 Day Rush
- X = 10 Working Days (Standard TAT)

ANALYSIS REQUESTED (Test Name)

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	Please enter the TAT Turnaround Codes ** below							Special Instructions						
GMW-7	7211015-16	10-10-17	10:30	GW	7	K	K	K											

SAMPLE INTEGRITY INTACT IN TEMP [Signature]

For Laboratory Use REVIEWED Date 10/11/17 Time 1600 TAT N Days Sign: [Signature]	Relinquished by [Signature]	Date 10-11-17	Time x(2:30)	Received by [Signature]
	Relinquished by [Signature]	Date 10/11/17	Time 1534	Received by [Signature]
	Relinquished by	Date	Time	Received by

A.A. Project No.: A5332325/7211015

Note: By relinquishing samples to American Analytics, client agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analytics.



9765 Eton Avenue
Chatsworth
California 91311
Tel: (818) 998-5547
Fax: (818) 998-7258

November 09, 2017

Neil Irish

The Source Group, Inc. (SH)
1962 Freeman Ave.
Signal Hill, CA 90755

**Re : DFSP Norwalk GW Sampling / 04-NDLA-013
A5332339 / 7J26011**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 10/26/17 18:13 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytics.

Sincerely,

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332339
Date Received: 10/26/17
Date Reported: 11/09/17

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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8260B+OXY+TPHG

QCTB-1	7J26011-01	Water	5	10/25/17 06:00	10/26/17 18:13
QCEB-1	7J26011-02	Water	5	10/25/17 08:30	10/26/17 18:13
QCEB-2	7J26011-12	Water	5	10/25/17 16:00	10/26/17 18:13

8260B+OXYGENATES

GW-3	7J26011-06	Water	5	10/25/17 11:38	10/26/17 18:13
EXP-2	7J26011-07	Water	5	10/25/17 12:10	10/26/17 18:13
MW-24	7J26011-08	Water	5	10/25/17 15:10	10/26/17 18:13
GMW-69	7J26011-11	Water	5	10/25/17 15:45	10/26/17 18:13

Diesel Range Organics 8015M

GMW-64	7J26011-03	Water	5	10/25/17 09:20	10/26/17 18:13
GMW-63	7J26011-04	Water	5	10/25/17 10:00	10/26/17 18:13
GMW-65	7J26011-05	Water	5	10/25/17 10:38	10/26/17 18:13
GW-3	7J26011-06	Water	5	10/25/17 11:38	10/26/17 18:13
EXP-2	7J26011-07	Water	5	10/25/17 12:10	10/26/17 18:13
MW-24	7J26011-08	Water	5	10/25/17 15:10	10/26/17 18:13
EXP-3	7J26011-09	Water	5	10/25/17 13:55	10/26/17 18:13
EXP-1	7J26011-10	Water	5	10/25/17 14:35	10/26/17 18:13
GMW-69	7J26011-11	Water	5	10/25/17 15:45	10/26/17 18:13

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs, OXY & TPH Gasoline by GC/MS

AA Project No: A5332339
Date Received: 10/26/17
Date Reported: 11/09/17
Units: ug/L

Date Sampled:	10/25/17	10/25/17	10/25/17	
Date Prepared:	10/31/17	10/31/17	10/31/17	
Date Analyzed:	10/31/17	10/31/17	10/31/17	
AA ID No:	7J26011-01	7J26011-02	7J26011-12	
Client ID No:	QCTB-1	QCEB-1	QCEB-2	
Matrix:	Water	Water	Water	
Dilution Factor:	1	1	1	MRL

8260B+OXY+TPHG (EPA 8260B)

Acetone	<10	20	21	10
tert-Amyl Methyl Ether (TAME)	<2.0	<2.0	<2.0	2.0
Benzene	<0.50	<0.50	<0.50	0.50
Bromobenzene	<0.50	<0.50	<0.50	0.50
Bromochloromethane	<0.50	<0.50	<0.50	0.50
Bromodichloromethane	<0.50	<0.50	<0.50	0.50
Bromoform	<0.50	<0.50	<0.50	0.50
Bromomethane	<0.50	<0.50	<0.50	0.50
2-Butanone (MEK)	<10	<10	<10	10
tert-Butyl alcohol (TBA)	<10	<10	<10	10
sec-Butylbenzene	<0.50	<0.50	<0.50	0.50
tert-Butylbenzene	<0.50	<0.50	<0.50	0.50
n-Butylbenzene	<0.50	<0.50	<0.50	0.50
Carbon Disulfide	<0.50	<0.50	<0.50	0.50
Carbon Tetrachloride	<0.50	<0.50	<0.50	0.50
Chlorobenzene	<0.50	<0.50	<0.50	0.50
Chloroethane	<0.50	<0.50	<0.50	0.50
Chloroform	<0.50	<0.50	<0.50	0.50
Chloromethane	<0.50	<0.50	<0.50	0.50
2-Chlorotoluene	<0.50	<0.50	<0.50	0.50
4-Chlorotoluene	<0.50	<0.50	<0.50	0.50
1,2-Dibromo-3-chloropropane	<1.0	<1.0	<1.0	1.0
Dibromochloromethane	<0.50	<0.50	<0.50	0.50
1,2-Dibromoethane (EDB)	<0.50	<0.50	<0.50	0.50
Dibromomethane	<0.50	<0.50	<0.50	0.50
1,3-Dichlorobenzene	<0.50	<0.50	<0.50	0.50
1,2-Dichlorobenzene	<0.50	<0.50	<0.50	0.50

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs, OXY & TPH Gasoline by GC/MS

AA Project No: A5332339
Date Received: 10/26/17
Date Reported: 11/09/17
Units: ug/L

Date Sampled:	10/25/17	10/25/17	10/25/17	
Date Prepared:	10/31/17	10/31/17	10/31/17	
Date Analyzed:	10/31/17	10/31/17	10/31/17	
AA ID No:	7J26011-01	7J26011-02	7J26011-12	
Client ID No:	QCTB-1	QCEB-1	QCEB-2	
Matrix:	Water	Water	Water	
Dilution Factor:	1	1	1	MRL

8260B+OXY+TPHG (EPA 8260B) (continued)

1,4-Dichlorobenzene	<0.50	<0.50	<0.50	0.50
Dichlorodifluoromethane (R12)	<0.50	<0.50	<0.50	0.50
1,1-Dichloroethane	<0.50	<0.50	<0.50	0.50
1,2-Dichloroethane (EDC)	<0.50	<0.50	<0.50	0.50
1,1-Dichloroethylene	<0.50	<0.50	<0.50	0.50
trans-1,2-Dichloroethylene	<0.50	<0.50	<0.50	0.50
cis-1,2-Dichloroethylene	<0.50	<0.50	<0.50	0.50
1,2-Dichloropropane	<0.50	<0.50	<0.50	0.50
2,2-Dichloropropane	<0.50	<0.50	<0.50	0.50
1,3-Dichloropropane	<0.50	<0.50	<0.50	0.50
cis-1,3-Dichloropropylene	<0.50	<0.50	<0.50	0.50
trans-1,3-Dichloropropylene	<0.50	<0.50	<0.50	0.50
1,1-Dichloropropylene	<0.50	<0.50	<0.50	0.50
Diisopropyl ether (DIPE)	<2.0	<2.0	<2.0	2.0
Ethylbenzene	<0.50	<0.50	<0.50	0.50
Ethyl-tert-Butyl Ether (ETBE)	<2.0	<2.0	<2.0	2.0
Gasoline Range Organics (GRO)	<100	<100	<100	100
Hexachlorobutadiene	<1.0	<1.0	<1.0	1.0
2-Hexanone (MBK)	<10	<10	<10	10
Isopropylbenzene	<0.50	<0.50	<0.50	0.50
4-Isopropyltoluene	<1.0	<1.0	<1.0	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.0	<1.0	<1.0	1.0
Methylene Chloride	<5.0	<5.0	<5.0	5.0
4-Methyl-2-pentanone (MIBK)	<10	<10	<10	10
Naphthalene	<2.0	<2.0	<2.0	2.0
n-Propylbenzene	<0.50	<0.50	<0.50	0.50

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs, OXY & TPH Gasoline by GC/MS

AA Project No: A5332339
Date Received: 10/26/17
Date Reported: 11/09/17
Units: ug/L

Date Sampled:	10/25/17	10/25/17	10/25/17	
Date Prepared:	10/31/17	10/31/17	10/31/17	
Date Analyzed:	10/31/17	10/31/17	10/31/17	
AA ID No:	7J26011-01	7J26011-02	7J26011-12	
Client ID No:	QCTB-1	QCEB-1	QCEB-2	
Matrix:	Water	Water	Water	
Dilution Factor:	1	1	1	MRL

8260B+OXY+TPHG (EPA 8260B) (continued)

Styrene	<0.50	<0.50	<0.50	0.50
1,1,1,2-Tetrachloroethane	<0.50	<0.50	<0.50	0.50
1,1,2,2-Tetrachloroethane	<0.50	<0.50	<0.50	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	<0.50	0.50
Toluene	<0.50	<0.50	<0.50	0.50
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	0.50
1,2,4-Trichlorobenzene	<0.50	<0.50	<0.50	0.50
1,1,1-Trichloroethane	<0.50	<0.50	<0.50	0.50
1,1,2-Trichloroethane	<0.50	<0.50	<0.50	0.50
Trichloroethylene (TCE)	<0.50	<0.50	<0.50	0.50
Trichlorofluoromethane (R11)	<0.50	<0.50	<0.50	0.50
1,2,3-Trichloropropane	<0.50	<0.50	<0.50	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	<0.50	<0.50	0.50
1,3,5-Trimethylbenzene	<0.50	<0.50	<0.50	0.50
1,2,4-Trimethylbenzene	<0.50	<0.50	<0.50	0.50
Vinyl chloride	<0.50	<0.50	<0.50	0.50
o-Xylene	<0.50	<0.50	<0.50	0.50
m,p-Xylenes	<1.0	<1.0	<1.0	1.0

Surrogates

				%REC Limits
4-Bromofluorobenzene	103%	108%	106%	70-140
Dibromofluoromethane	127%	122%	123%	70-140
Toluene-d8	96%	98%	92%	70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332339
Date Received: 10/26/17
Date Reported: 11/09/17
Units: ug/L

Date Sampled:	10/25/17	10/25/17	10/25/17	10/25/17	
Date Prepared:	10/31/17	10/31/17	10/31/17	10/31/17	
Date Analyzed:	10/31/17	10/31/17	10/31/17	10/31/17	
AA ID No:	7J26011-06	7J26011-07	7J26011-08	7J26011-11	
Client ID No:	GW-3	EXP-2	MW-24	GMW-69	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	5	MRL

8260B+OXYGENATES (EPA 8260B)

Acetone	<10	<10	18	<50	10
tert-Amyl Methyl Ether (TAME)	<2.0	<2.0	<2.0	<10	2.0
Benzene	<0.50	<0.50	<0.50	870	0.50
Bromobenzene	<0.50	<0.50	<0.50	<2.5	0.50
Bromochloromethane	<0.50	<0.50	<0.50	<2.5	0.50
Bromodichloromethane	<0.50	<0.50	<0.50	<2.5	0.50
Bromoform	<0.50	<0.50	<0.50	<2.5	0.50
Bromomethane	<0.50	<0.50	<0.50	<2.5	0.50
2-Butanone (MEK)	<10	<10	<10	<50	10
tert-Butyl alcohol (TBA)	<10	<10	<10	<50	10
sec-Butylbenzene	<0.50	<0.50	<0.50	<2.5	0.50
tert-Butylbenzene	<0.50	<0.50	<0.50	<2.5	0.50
n-Butylbenzene	<0.50	<0.50	<0.50	14	0.50
Carbon Disulfide	<0.50	<0.50	<0.50	<2.5	0.50
Carbon Tetrachloride	<0.50	<0.50	<0.50	<2.5	0.50
Chlorobenzene	<0.50	<0.50	<0.50	<2.5	0.50
Chloroethane	<0.50	<0.50	<0.50	<2.5	0.50
Chloroform	<0.50	<0.50	<0.50	<2.5	0.50
Chloromethane	<0.50	<0.50	<0.50	<2.5	0.50
2-Chlorotoluene	<0.50	<0.50	<0.50	<2.5	0.50
4-Chlorotoluene	<0.50	<0.50	<0.50	<2.5	0.50
1,2-Dibromo-3-chloropropane	<1.0	<1.0	<1.0	<5.0	1.0
Dibromochloromethane	<0.50	<0.50	<0.50	<2.5	0.50
1,2-Dibromoethane (EDB)	<0.50	<0.50	<0.50	<2.5	0.50
Dibromomethane	<0.50	<0.50	<0.50	<2.5	0.50
1,3-Dichlorobenzene	<0.50	<0.50	<0.50	<2.5	0.50
1,2-Dichlorobenzene	<0.50	<0.50	<0.50	<2.5	0.50

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332339
Date Received: 10/26/17
Date Reported: 11/09/17
Units: ug/L

Date Sampled:	10/25/17	10/25/17	10/25/17	10/25/17	
Date Prepared:	10/31/17	10/31/17	10/31/17	10/31/17	
Date Analyzed:	10/31/17	10/31/17	10/31/17	10/31/17	
AA ID No:	7J26011-06	7J26011-07	7J26011-08	7J26011-11	
Client ID No:	GW-3	EXP-2	MW-24	GMW-69	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	5	MRL

8260B+OXYGENATES (EPA 8260B) (continued)

1,4-Dichlorobenzene	<0.50	<0.50	<0.50	<2.5	0.50
Dichlorodifluoromethane (R12)	<0.50	<0.50	<0.50	<2.5	0.50
1,1-Dichloroethane	<0.50	<0.50	<0.50	<2.5	0.50
1,2-Dichloroethane (EDC)	<0.50	<0.50	<0.50	<2.5	0.50
1,1-Dichloroethylene	<0.50	<0.50	<0.50	<2.5	0.50
trans-1,2-Dichloroethylene	<0.50	<0.50	<0.50	<2.5	0.50
cis-1,2-Dichloroethylene	<0.50	<0.50	<0.50	<2.5	0.50
1,2-Dichloropropane	<0.50	<0.50	<0.50	<2.5	0.50
2,2-Dichloropropane	<0.50	<0.50	<0.50	<2.5	0.50
1,3-Dichloropropane	<0.50	<0.50	<0.50	<2.5	0.50
cis-1,3-Dichloropropylene	<0.50	<0.50	<0.50	<2.5	0.50
trans-1,3-Dichloropropylene	<0.50	<0.50	<0.50	<2.5	0.50
1,1-Dichloropropylene	<0.50	<0.50	<0.50	<2.5	0.50
Diisopropyl ether (DIPE)	<2.0	<2.0	<2.0	<10	2.0
Ethylbenzene	<0.50	<0.50	<0.50	950	0.50
Ethyl-tert-Butyl Ether (ETBE)	<2.0	<2.0	<2.0	<10	2.0
Hexachlorobutadiene	<1.0	<1.0	<1.0	<5.0	1.0
2-Hexanone (MBK)	<10	<10	<10	<50	10
Isopropylbenzene	<0.50	<0.50	<0.50	120	0.50
4-Isopropyltoluene	<1.0	<1.0	<1.0	6.6	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.0	<1.0	1.0	<5.0	1.0
Methylene Chloride	<5.0	<5.0	<5.0	<25	5.0
4-Methyl-2-pentanone (MIBK)	<10	<10	<10	<50	10
Naphthalene	<2.0	<2.0	<2.0	180	2.0
n-Propylbenzene	<0.50	<0.50	<0.50	130	0.50
Styrene	<0.50	<0.50	<0.50	<2.5	0.50
1,1,1,2-Tetrachloroethane	<0.50	<0.50	<0.50	<2.5	0.50

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: VOCs & OXYGENATES by GC/MS

AA Project No: A5332339
Date Received: 10/26/17
Date Reported: 11/09/17
Units: ug/L

Date Sampled:	10/25/17	10/25/17	10/25/17	10/25/17	
Date Prepared:	10/31/17	10/31/17	10/31/17	10/31/17	
Date Analyzed:	10/31/17	10/31/17	10/31/17	10/31/17	
AA ID No:	7J26011-06	7J26011-07	7J26011-08	7J26011-11	
Client ID No:	GW-3	EXP-2	MW-24	GMW-69	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	5	MRL

8260B+OXYGENATES (EPA 8260B) (continued)

1,1,2,2-Tetrachloroethane	<0.50	<0.50	<0.50	<2.5	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	<0.50	<2.5	0.50
Toluene	<0.50	<0.50	<0.50	4.8	0.50
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<2.5	0.50
1,2,4-Trichlorobenzene	<0.50	<0.50	<0.50	<2.5	0.50
1,1,1-Trichloroethane	<0.50	<0.50	<0.50	<2.5	0.50
1,1,2-Trichloroethane	<0.50	<0.50	<0.50	<2.5	0.50
Trichloroethylene (TCE)	<0.50	<0.50	<0.50	<2.5	0.50
Trichlorofluoromethane (R11)	<0.50	<0.50	<0.50	<2.5	0.50
1,2,3-Trichloropropane	<0.50	<0.50	<0.50	<2.5	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	<0.50	<0.50	<2.5	0.50
1,3,5-Trimethylbenzene	<0.50	<0.50	<0.50	140	0.50
1,2,4-Trimethylbenzene	<0.50	<0.50	<0.50	500	0.50
Vinyl chloride	<0.50	<0.50	<0.50	<2.5	0.50
o-Xylene	<0.50	<0.50	<0.50	240	0.50
m,p-Xylenes	<1.0	<1.0	<1.0	760	1.0

Surrogates

					%REC Limits
4-Bromofluorobenzene	106%	106%	107%	101%	70-140
Dibromofluoromethane	122%	122%	124%	114%	70-140
Toluene-d8	99%	100%	100%	102%	70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: Diesel Range Organics by GC/FID

AA Project No: A5332339
Date Received: 10/26/17
Date Reported: 11/09/17
Units: mg/L

Date Sampled:	10/25/17	10/25/17	10/25/17	10/25/17	
Date Prepared:	11/06/17	11/06/17	11/06/17	11/06/17	
Date Analyzed:	11/06/17	11/06/17	11/06/17	11/06/17	
AA ID No:	7J26011-03	7J26011-04	7J26011-05	7J26011-06	
Client ID No:	GMW-64	GMW-63	GMW-65	GW-3	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

Diesel Range Organics 8015M (EPA 8015M)

Diesel Range Organics as Diesel	0.62	0.44	0.32	0.24	0.10
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Surrogates

o-Terphenyl	113%	110%	101%	91%	<u>%REC Limits</u> 50-150
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Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: Diesel Range Organics by GC/FID

AA Project No: A5332339
Date Received: 10/26/17
Date Reported: 11/09/17
Units: mg/L

Date Sampled:	10/25/17	10/25/17	10/25/17	10/25/17	
Date Prepared:	11/06/17	11/06/17	11/06/17	11/06/17	
Date Analyzed:	11/06/17	11/06/17	11/06/17	11/06/17	
AA ID No:	7J26011-07	7J26011-08	7J26011-09	7J26011-10	
Client ID No:	EXP-2	MW-24	EXP-3	EXP-1	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

Diesel Range Organics 8015M (EPA 8015M)

Diesel Range Organics as Diesel	0.14	0.41	<0.10	0.23	0.10
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Surrogates

o-Terphenyl	109%	104%	93%	104%	<u>%REC Limits</u> 50-150
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Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling
Method: Diesel Range Organics by GC/FID

AA Project No: A5332339
Date Received: 10/26/17
Date Reported: 11/09/17
Units: mg/L

Date Sampled:	10/25/17	
Date Prepared:	11/06/17	
Date Analyzed:	11/06/17	
AA ID No:	7J26011-11	
Client ID No:	GMW-69	
Matrix:	Water	
Dilution Factor:	1	MRL

Diesel Range Organics 8015M (EPA 8015M)

Diesel Range Organics as Diesel	0.83	0.10
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Surrogates

o-Terphenyl	88%	<u>%REC Limits</u> 50-150
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332339
Date Received: 10/26/17
Date Reported: 11/09/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J3131 - EPA 5030B

Blank (B7J3131-BLK1)

Prepared & Analyzed: 10/31/17

Acetone	<10	10	ug/L							
tert-Amyl Methyl Ether (TAME)	<2.0	2.0	ug/L							
Benzene	<0.50	0.50	ug/L							
Bromobenzene	<0.50	0.50	ug/L							
Bromochloromethane	<0.50	0.50	ug/L							
Bromodichloromethane	<0.50	0.50	ug/L							
Bromoform	<0.50	0.50	ug/L							
Bromomethane	<0.50	0.50	ug/L							
2-Butanone (MEK)	<10	10	ug/L							
tert-Butyl alcohol (TBA)	<10	10	ug/L							
sec-Butylbenzene	<0.50	0.50	ug/L							
tert-Butylbenzene	<0.50	0.50	ug/L							
n-Butylbenzene	<0.50	0.50	ug/L							
Carbon Disulfide	<0.50	0.50	ug/L							
Carbon Tetrachloride	<0.50	0.50	ug/L							
Chlorobenzene	<0.50	0.50	ug/L							
Chloroethane	<0.50	0.50	ug/L							
Chloroform	<0.50	0.50	ug/L							
Chloromethane	<0.50	0.50	ug/L							
2-Chlorotoluene	<0.50	0.50	ug/L							
4-Chlorotoluene	<0.50	0.50	ug/L							
1,2-Dibromo-3-chloropropane	<1.0	1.0	ug/L							
Dibromochloromethane	<0.50	0.50	ug/L							
1,2-Dibromoethane (EDB)	<0.50	0.50	ug/L							
Dibromomethane	<0.50	0.50	ug/L							
1,3-Dichlorobenzene	<0.50	0.50	ug/L							
1,2-Dichlorobenzene	<0.50	0.50	ug/L							
1,4-Dichlorobenzene	<0.50	0.50	ug/L							
Dichlorodifluoromethane (R12)	<0.50	0.50	ug/L							
1,1-Dichloroethane	<0.50	0.50	ug/L							
1,2-Dichloroethane (EDC)	<0.50	0.50	ug/L							

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332339
Date Received: 10/26/17
Date Reported: 11/09/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J3131 - EPA 5030B

Blank (B7J3131-BLK1) Continued

Prepared & Analyzed: 10/31/17

1,1-Dichloroethylene	<0.50	0.50	ug/L
trans-1,2-Dichloroethylene	<0.50	0.50	ug/L
cis-1,2-Dichloroethylene	<0.50	0.50	ug/L
1,2-Dichloropropane	<0.50	0.50	ug/L
2,2-Dichloropropane	<0.50	0.50	ug/L
1,3-Dichloropropane	<0.50	0.50	ug/L
cis-1,3-Dichloropropylene	<0.50	0.50	ug/L
trans-1,3-Dichloropropylene	<0.50	0.50	ug/L
1,1-Dichloropropylene	<0.50	0.50	ug/L
Diisopropyl ether (DIPE)	<2.0	2.0	ug/L
Ethylbenzene	<0.50	0.50	ug/L
Ethyl-tert-Butyl Ether (ETBE)	<2.0	2.0	ug/L
Gasoline Range Organics (GRO)	<100	100	ug/L
Hexachlorobutadiene	<1.0	1.0	ug/L
2-Hexanone (MBK)	<10	10	ug/L
Isopropylbenzene	<0.50	0.50	ug/L
4-Isopropyltoluene	<1.0	1.0	ug/L
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L
Methylene Chloride	<5.0	5.0	ug/L
4-Methyl-2-pentanone (MIBK)	<10	10	ug/L
Naphthalene	<2.0	2.0	ug/L
n-Propylbenzene	<0.50	0.50	ug/L
Styrene	<0.50	0.50	ug/L
1,1,1,2-Tetrachloroethane	<0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	<0.50	0.50	ug/L
Tetrachloroethylene (PCE)	<0.50	0.50	ug/L
Toluene	<0.50	0.50	ug/L
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L
1,2,4-Trichlorobenzene	<0.50	0.50	ug/L
1,1,1-Trichloroethane	<0.50	0.50	ug/L
1,1,2-Trichloroethane	<0.50	0.50	ug/L

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332339
Date Received: 10/26/17
Date Reported: 11/09/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J3131 - EPA 5030B

Blank (B7J3131-BLK1) Continued

Prepared & Analyzed: 10/31/17

Trichloroethylene (TCE)	<0.50	0.50	ug/L
Trichlorofluoromethane (R11)	<0.50	0.50	ug/L
1,2,3-Trichloropropane	<0.50	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	0.50	ug/L
1,3,5-Trimethylbenzene	<0.50	0.50	ug/L
1,2,4-Trimethylbenzene	<0.50	0.50	ug/L
Vinyl chloride	<0.50	0.50	ug/L
o-Xylene	<0.50	0.50	ug/L
m,p-Xylenes	<1.0	1.0	ug/L

Surrogate: 4-Bromofluorobenzene	52.7		ug/L	50		105	70-140
Surrogate: Dibromofluoromethane	54.7		ug/L	50		109	70-140
Surrogate: Toluene-d8	52.6		ug/L	50		105	70-140

LCS (B7J3131-BS1)

Prepared & Analyzed: 10/31/17

Acetone	23.3	10	ug/L	20		117	70-130
tert-Amyl Methyl Ether (TAME)	16.8	2.0	ug/L	20		84.0	70-130
Benzene	21.7	0.50	ug/L	20		108	75-125
Bromobenzene	21.8	0.50	ug/L	20		109	70-130
Bromochloromethane	19.8	0.50	ug/L	20		99.2	70-130
Bromodichloromethane	21.5	0.50	ug/L	20		108	75-125
Bromoform	21.4	0.50	ug/L	20		107	75-125
Bromomethane	20.4	0.50	ug/L	20		102	75-125
2-Butanone (MEK)	24.1	10	ug/L	20		120	70-130
tert-Butyl alcohol (TBA)	80.0	10	ug/L	100		80.0	70-130
sec-Butylbenzene	23.5	0.50	ug/L	20		118	70-130
tert-Butylbenzene	23.5	0.50	ug/L	20		118	70-130
n-Butylbenzene	24.2	0.50	ug/L	20		121	70-130
Carbon Disulfide	20.1	0.50	ug/L	20		100	70-130
Carbon Tetrachloride	22.8	0.50	ug/L	20		114	75-125
Chlorobenzene	21.8	0.50	ug/L	20		109	75-125
Chloroethane	21.4	0.50	ug/L	20		107	75-125

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332339
Date Received: 10/26/17
Date Reported: 11/09/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J3131 - EPA 5030B

LCS (B7J3131-BS1) Continued

Prepared & Analyzed: 10/31/17

Chloroform	21.0	0.50	ug/L	20	105	75-125
Chloromethane	20.3	0.50	ug/L	20	102	65-125
2-Chlorotoluene	22.8	0.50	ug/L	20	114	70-130
4-Chlorotoluene	23.0	0.50	ug/L	20	115	70-130
1,2-Dibromo-3-chloropropane	19.8	1.0	ug/L	20	99.0	70-130
Dibromochloromethane	21.8	0.50	ug/L	20	109	75-125
1,2-Dibromoethane (EDB)	20.5	0.50	ug/L	20	102	70-130
Dibromomethane	20.4	0.50	ug/L	20	102	70-130
1,3-Dichlorobenzene	21.8	0.50	ug/L	20	109	70-130
1,2-Dichlorobenzene	22.5	0.50	ug/L	20	113	70-130
1,4-Dichlorobenzene	21.6	0.50	ug/L	20	108	75-125
Dichlorodifluoromethane (R12)	18.6	0.50	ug/L	20	93.2	70-130
1,1-Dichloroethane	21.2	0.50	ug/L	20	106	70-125
1,2-Dichloroethane (EDC)	21.3	0.50	ug/L	20	107	75-125
1,1-Dichloroethylene	20.8	0.50	ug/L	20	104	70-130
trans-1,2-Dichloroethylene	20.6	0.50	ug/L	20	103	75-125
cis-1,2-Dichloroethylene	21.4	0.50	ug/L	20	107	75-125
1,2-Dichloropropane	20.2	0.50	ug/L	20	101	75-130
2,2-Dichloropropane	21.8	0.50	ug/L	20	109	70-130
1,3-Dichloropropane	20.3	0.50	ug/L	20	102	70-130
cis-1,3-Dichloropropylene	21.6	0.50	ug/L	20	108	75-125
trans-1,3-Dichloropropylene	20.6	0.50	ug/L	20	103	70-130
1,1-Dichloropropylene	22.7	0.50	ug/L	20	113	70-130
Diisopropyl ether (DIPE)	20.6	2.0	ug/L	20	103	70-130
Ethylbenzene	22.9	0.50	ug/L	20	114	75-125
Ethyl-tert-Butyl Ether (ETBE)	18.6	2.0	ug/L	20	92.9	70-130
Gasoline Range Organics (GRO)	489	100	ug/L	500	97.8	70-130
Hexachlorobutadiene	24.3	1.0	ug/L	20	122	70-130
2-Hexanone (MBK)	20.0	10	ug/L	20	100	70-130
Isopropylbenzene	23.1	0.50	ug/L	20	116	70-130
4-Isopropyltoluene	22.4	1.0	ug/L	20	112	70-130

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332339
Date Received: 10/26/17
Date Reported: 11/09/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J3131 - EPA 5030B

LCS (B7J3131-BS1) Continued

Prepared & Analyzed: 10/31/17

Methyl-tert-Butyl Ether (MTBE)	37.4	1.0	ug/L	40		93.6	75-125			
Methylene Chloride	20.4	5.0	ug/L	20		102	75-130			
4-Methyl-2-pentanone (MIBK)	18.2	10	ug/L	20		90.8	70-130			
Naphthalene	22.1	2.0	ug/L	20		111	70-130			
n-Propylbenzene	23.5	0.50	ug/L	20		117	70-130			
Styrene	23.6	0.50	ug/L	20		118	70-130			
1,1,1,2-Tetrachloroethane	21.1	0.50	ug/L	20		106	70-130			
1,1,2,2-Tetrachloroethane	20.6	0.50	ug/L	20		103	70-135			
Tetrachloroethylene (PCE)	21.9	0.50	ug/L	20		109	75-125			
Toluene	20.7	0.50	ug/L	20		104	75-125			
1,2,3-Trichlorobenzene	23.8	0.50	ug/L	20		119	70-130			
1,2,4-Trichlorobenzene	24.3	0.50	ug/L	20		121	70-130			
1,1,1-Trichloroethane	22.0	0.50	ug/L	20		110	75-125			
1,1,2-Trichloroethane	20.5	0.50	ug/L	20		102	75-125			
Trichloroethylene (TCE)	22.0	0.50	ug/L	20		110	75-125			
Trichlorofluoromethane (R11)	22.4	0.50	ug/L	20		112	70-130			
1,2,3-Trichloropropane	20.6	0.50	ug/L	20		103	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	18.8	0.50	ug/L	20		94.2	70-130			
1,3,5-Trimethylbenzene	23.4	0.50	ug/L	20		117	70-130			
1,2,4-Trimethylbenzene	23.2	0.50	ug/L	20		116	70-130			
Vinyl chloride	19.7	0.50	ug/L	20		98.4	75-125			
o-Xylene	21.2	0.50	ug/L	20		106	75-125			
m,p-Xylenes	42.7	1.0	ug/L	40		107	70-130			

Surrogate: 4-Bromofluorobenzene	51.8		ug/L	50		104	70-140			
Surrogate: Dibromofluoromethane	49.0		ug/L	50		97.9	70-140			
Surrogate: Toluene-d8	51.3		ug/L	50		103	70-140			

Matrix Spike (B7J3131-MS1)

Source: 7J26010-03 Prepared & Analyzed: 10/31/17

Acetone	34.0	10	ug/L	20	14.6	97.0	70-130			
tert-Amyl Methyl Ether (TAME)	16.8	2.0	ug/L	20		84.0	70-130			
Benzene	21.6	0.50	ug/L	20		108	70-130			

Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332339
Date Received: 10/26/17
Date Reported: 11/09/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J3131 - EPA 5030B

Matrix Spike (B7J3131-MS1) Continued Source: 7J26010-03 Prepared & Analyzed: 10/31/17

Bromobenzene	21.6	0.50	ug/L	20		108	70-130			
Bromochloromethane	20.6	0.50	ug/L	20		103	70-130			
Bromodichloromethane	21.6	0.50	ug/L	20		108	70-130			
Bromoform	21.2	0.50	ug/L	20		106	70-130			
Bromomethane	16.7	0.50	ug/L	20		83.6	70-130			
2-Butanone (MEK)	21.7	10	ug/L	20		108	70-130			
tert-Butyl alcohol (TBA)	107	10	ug/L	100		107	70-130			
sec-Butylbenzene	22.4	0.50	ug/L	20		112	70-130			
tert-Butylbenzene	22.7	0.50	ug/L	20		113	70-130			
n-Butylbenzene	23.0	0.50	ug/L	20		115	70-130			
Carbon Disulfide	19.8	0.50	ug/L	20		99.1	70-130			
Carbon Tetrachloride	21.8	0.50	ug/L	20		109	70-130			
Chlorobenzene	22.1	0.50	ug/L	20		111	70-130			
Chloroethane	19.8	0.50	ug/L	20		99.2	70-130			
Chloroform	21.5	0.50	ug/L	20		108	70-130			
Chloromethane	19.2	0.50	ug/L	20		96.0	70-130			
2-Chlorotoluene	22.6	0.50	ug/L	20		113	70-130			
4-Chlorotoluene	22.3	0.50	ug/L	20		112	70-130			
1,2-Dibromo-3-chloropropane	19.4	1.0	ug/L	20		97.0	70-130			
Dibromochloromethane	21.3	0.50	ug/L	20		107	70-130			
1,2-Dibromoethane (EDB)	20.7	0.50	ug/L	20		104	70-130			
Dibromomethane	20.7	0.50	ug/L	20		104	70-130			
1,3-Dichlorobenzene	21.8	0.50	ug/L	20		109	70-130			
1,2-Dichlorobenzene	22.1	0.50	ug/L	20		111	70-130			
1,4-Dichlorobenzene	21.0	0.50	ug/L	20		105	70-130			
Dichlorodifluoromethane (R12)	16.4	0.50	ug/L	20		82.0	70-130			
1,1-Dichloroethane	21.7	0.50	ug/L	20		109	70-130			
1,2-Dichloroethane (EDC)	21.0	0.50	ug/L	20		105	70-130			
1,1-Dichloroethylene	20.6	0.50	ug/L	20		103	70-130			
trans-1,2-Dichloroethylene	22.2	0.50	ug/L	20		111	70-130			
cis-1,2-Dichloroethylene	22.1	0.50	ug/L	20		110	70-130			

Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332339
Date Received: 10/26/17
Date Reported: 11/09/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs, OXY & TPH Gasoline by GC/MS - Quality Control										
<i>Batch B7J3131 - EPA 5030B</i>										
Matrix Spike (B7J3131-MS1) Continued Source: 7J26010-03 Prepared & Analyzed: 10/31/17										
1,2-Dichloropropane	21.1	0.50	ug/L	20		106	70-130			
2,2-Dichloropropane	18.8	0.50	ug/L	20		94.2	70-130			
1,3-Dichloropropane	20.2	0.50	ug/L	20		101	70-130			
cis-1,3-Dichloropropylene	20.9	0.50	ug/L	20		105	70-130			
trans-1,3-Dichloropropylene	20.0	0.50	ug/L	20		100	70-130			
1,1-Dichloropropylene	22.9	0.50	ug/L	20		114	70-130			
Diisopropyl ether (DIPE)	22.1	2.0	ug/L	20		110	70-130			
Ethylbenzene	23.7	0.50	ug/L	20		119	70-130			
Ethyl-tert-Butyl Ether (ETBE)	16.7	2.0	ug/L	20		83.7	70-130			
Hexachlorobutadiene	21.2	1.0	ug/L	20		106	70-130			
2-Hexanone (MBK)	18.5	10	ug/L	20		92.3	70-130			
Isopropylbenzene	23.1	0.50	ug/L	20		116	70-130			
4-Isopropyltoluene	21.6	1.0	ug/L	20		108	70-130			
Methyl-tert-Butyl Ether (MTBE)	34.1	1.0	ug/L	40		85.2	70-130			
Methylene Chloride	19.1	5.0	ug/L	20		95.4	70-130			
4-Methyl-2-pentanone (MIBK)	19.0	10	ug/L	20		94.8	70-130			
Naphthalene	23.0	2.0	ug/L	20		115	70-130			
n-Propylbenzene	23.3	0.50	ug/L	20		116	70-130			
Styrene	23.2	0.50	ug/L	20		116	70-130			
1,1,1,2-Tetrachloroethane	22.0	0.50	ug/L	20		110	70-130			
1,1,2,2-Tetrachloroethane	20.2	0.50	ug/L	20		101	70-130			
Tetrachloroethylene (PCE)	21.8	0.50	ug/L	20		109	70-130			
Toluene	21.4	0.50	ug/L	20		107	70-130			
1,2,3-Trichlorobenzene	23.7	0.50	ug/L	20		119	70-130			
1,2,4-Trichlorobenzene	23.0	0.50	ug/L	20		115	70-130			
1,1,1-Trichloroethane	22.5	0.50	ug/L	20		112	70-130			
1,1,2-Trichloroethane	21.3	0.50	ug/L	20		107	70-130			
Trichloroethylene (TCE)	22.2	0.50	ug/L	20		111	70-130			
Trichlorofluoromethane (R11)	20.8	0.50	ug/L	20		104	70-130			
1,2,3-Trichloropropane	19.9	0.50	ug/L	20		99.6	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	18.6	0.50	ug/L	20		93.2	70-130			

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332339
Date Received: 10/26/17
Date Reported: 11/09/17

Table with 11 columns: Analyte, Reporting Result, Reporting Limit, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Notes

VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J3131 - EPA 5030B

Matrix Spike (B7J3131-MS1) Continued Source: 7J26010-03 Prepared & Analyzed: 10/31/17

Table listing analytes such as 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, Vinyl chloride, o-Xylene, m,p-Xylenes, and Surrogate: 4-Bromofluorobenzene with their respective results and limits.

Matrix Spike Dup (B7J3131-MSD1) Source: 7J26010-03 Prepared & Analyzed: 10/31/17

Table listing analytes such as Acetone, tert-Amyl Methyl Ether (TAME), Benzene, Bromobenzene, Bromochloromethane, Bromodichloromethane, Bromoform, Bromomethane, 2-Butanone (MEK), tert-Butyl alcohol (TBA), sec-Butylbenzene, tert-Butylbenzene, n-Butylbenzene, Carbon Disulfide, Carbon Tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, 2-Chlorotoluene, 4-Chlorotoluene, 1,2-Dibromo-3-chloropropane with their respective results and limits.

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Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332339
Date Received: 10/26/17
Date Reported: 11/09/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
VOCs, OXY & TPH Gasoline by GC/MS - Quality Control										
<i>Batch B7J3131 - EPA 5030B</i>										
Matrix Spike Dup (B7J3131-MSD1) Source: 7J26010-03 Prepared & Analyzed: 10/31/17										
Continued										
Dibromochloromethane	21.8	0.50	ug/L	20	109	70-130	2.36	30		
1,2-Dibromoethane (EDB)	21.3	0.50	ug/L	20	107	70-130	2.85	30		
Dibromomethane	21.5	0.50	ug/L	20	108	70-130	3.93	30		
1,3-Dichlorobenzene	21.8	0.50	ug/L	20	109	70-130	0.138	30		
1,2-Dichlorobenzene	23.1	0.50	ug/L	20	115	70-130	4.34	30		
1,4-Dichlorobenzene	21.2	0.50	ug/L	20	106	70-130	0.994	30		
Dichlorodifluoromethane (R12)	16.0	0.50	ug/L	20	80.2	70-130	2.16	30		
1,1-Dichloroethane	21.6	0.50	ug/L	20	108	70-130	0.462	30		
1,2-Dichloroethane (EDC)	21.8	0.50	ug/L	20	109	70-130	3.50	30		
1,1-Dichloroethylene	21.2	0.50	ug/L	20	106	70-130	3.11	30		
trans-1,2-Dichloroethylene	19.1	0.50	ug/L	20	95.6	70-130	14.9	30		
cis-1,2-Dichloroethylene	21.8	0.50	ug/L	20	109	70-130	1.23	30		
1,2-Dichloropropane	21.7	0.50	ug/L	20	108	70-130	2.52	30		
2,2-Dichloropropane	19.2	0.50	ug/L	20	95.8	70-130	1.63	30		
1,3-Dichloropropane	21.2	0.50	ug/L	20	106	70-130	5.12	30		
cis-1,3-Dichloropropylene	21.8	0.50	ug/L	20	109	70-130	4.30	30		
trans-1,3-Dichloropropylene	20.3	0.50	ug/L	20	102	70-130	1.59	30		
1,1-Dichloropropylene	22.8	0.50	ug/L	20	114	70-130	0.307	30		
Diisopropyl ether (DIPE)	22.3	2.0	ug/L	20	111	70-130	0.857	30		
Ethylbenzene	23.3	0.50	ug/L	20	116	70-130	1.79	30		
Ethyl-tert-Butyl Ether (ETBE)	17.6	2.0	ug/L	20	88.0	70-130	5.01	30		
Hexachlorobutadiene	22.9	1.0	ug/L	20	115	70-130	7.84	30		
2-Hexanone (MBK)	22.0	10	ug/L	20	110	70-130	17.6	30		
Isopropylbenzene	22.7	0.50	ug/L	20	114	70-130	1.88	30		
4-Isopropyltoluene	21.6	1.0	ug/L	20	108	70-130	0.00	30		
Methyl-tert-Butyl Ether (MTBE)	35.7	1.0	ug/L	40	89.3	70-130	4.70	30		
Methylene Chloride	19.9	5.0	ug/L	20	99.4	70-130	4.16	30		
4-Methyl-2-pentanone (MIBK)	20.2	10	ug/L	20	101	70-130	6.48	30		
Naphthalene	24.8	2.0	ug/L	20	124	70-130	7.28	30		
n-Propylbenzene	23.0	0.50	ug/L	20	115	70-130	1.30	30		
Styrene	23.5	0.50	ug/L	20	117	70-130	0.942	30		

Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332339
Date Received: 10/26/17
Date Reported: 11/09/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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VOCs, OXY & TPH Gasoline by GC/MS - Quality Control

Batch B7J3131 - EPA 5030B

Matrix Spike Dup (B7J3131-MSD1) Source: 7J26010-03 Prepared & Analyzed: 10/31/17**Continued**

1,1,1,2-Tetrachloroethane	22.0	0.50	ug/L	20	110	70-130	0.0455	30		
1,1,2,2-Tetrachloroethane	21.4	0.50	ug/L	20	107	70-130	6.01	30		
Tetrachloroethylene (PCE)	21.7	0.50	ug/L	20	108	70-130	0.506	30		
Toluene	21.0	0.50	ug/L	20	105	70-130	1.98	30		
1,2,3-Trichlorobenzene	24.7	0.50	ug/L	20	124	70-130	4.05	30		
1,2,4-Trichlorobenzene	24.4	0.50	ug/L	20	122	70-130	5.87	30		
1,1,1-Trichloroethane	21.5	0.50	ug/L	20	108	70-130	4.27	30		
1,1,2-Trichloroethane	21.9	0.50	ug/L	20	110	70-130	2.73	30		
Trichloroethylene (TCE)	21.9	0.50	ug/L	20	110	70-130	1.09	30		
Trichlorofluoromethane (R11)	21.1	0.50	ug/L	20	105	70-130	1.34	30		
1,2,3-Trichloropropane	21.4	0.50	ug/L	20	107	70-130	7.35	30		
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	18.3	0.50	ug/L	20	91.4	70-130	1.95	30		
1,3,5-Trimethylbenzene	22.7	0.50	ug/L	20	113	70-130	0.265	30		
1,2,4-Trimethylbenzene	22.8	0.50	ug/L	20	114	70-130	0.655	30		
Vinyl chloride	18.4	0.50	ug/L	20	92.0	70-130	1.94	30		
o-Xylene	21.4	0.50	ug/L	20	107	70-130	1.41	30		
m,p-Xylenes	42.7	1.0	ug/L	40	107	70-130	1.83	30		
Surrogate: 4-Bromofluorobenzene	51.1		ug/L	50	102	70-140				
Surrogate: Dibromofluoromethane	50.5		ug/L	50	101	70-140				
Surrogate: Toluene-d8	50.3		ug/L	50	101	70-140				

VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J3131 - EPA 5030B

Blank (B7J3131-BLK1)

Prepared & Analyzed: 10/31/17

Acetone	<10	10	ug/L							
tert-Amyl Methyl Ether (TAME)	<2.0	2.0	ug/L							
Benzene	<0.50	0.50	ug/L							
Bromobenzene	<0.50	0.50	ug/L							
Bromochloromethane	<0.50	0.50	ug/L							
Bromodichloromethane	<0.50	0.50	ug/L							

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332339
Date Received: 10/26/17
Date Reported: 11/09/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J3131 - EPA 5030B

Blank (B7J3131-BLK1) Continued

Prepared & Analyzed: 10/31/17

Bromoform	<0.50	0.50	ug/L							
Bromomethane	<0.50	0.50	ug/L							
2-Butanone (MEK)	<10	10	ug/L							
tert-Butyl alcohol (TBA)	<10	10	ug/L							
sec-Butylbenzene	<0.50	0.50	ug/L							
tert-Butylbenzene	<0.50	0.50	ug/L							
n-Butylbenzene	<0.50	0.50	ug/L							
Carbon Disulfide	<0.50	0.50	ug/L							
Carbon Tetrachloride	<0.50	0.50	ug/L							
Chlorobenzene	<0.50	0.50	ug/L							
Chloroethane	<0.50	0.50	ug/L							
Chloroform	<0.50	0.50	ug/L							
Chloromethane	<0.50	0.50	ug/L							
2-Chlorotoluene	<0.50	0.50	ug/L							
4-Chlorotoluene	<0.50	0.50	ug/L							
1,2-Dibromo-3-chloropropane	<1.0	1.0	ug/L							
Dibromochloromethane	<0.50	0.50	ug/L							
1,2-Dibromoethane (EDB)	<0.50	0.50	ug/L							
Dibromomethane	<0.50	0.50	ug/L							
1,3-Dichlorobenzene	<0.50	0.50	ug/L							
1,2-Dichlorobenzene	<0.50	0.50	ug/L							
1,4-Dichlorobenzene	<0.50	0.50	ug/L							
Dichlorodifluoromethane (R12)	<0.50	0.50	ug/L							
1,1-Dichloroethane	<0.50	0.50	ug/L							
1,2-Dichloroethane (EDC)	<0.50	0.50	ug/L							
1,1-Dichloroethylene	<0.50	0.50	ug/L							
trans-1,2-Dichloroethylene	<0.50	0.50	ug/L							
cis-1,2-Dichloroethylene	<0.50	0.50	ug/L							
1,2-Dichloropropane	<0.50	0.50	ug/L							
2,2-Dichloropropane	<0.50	0.50	ug/L							
1,3-Dichloropropane	<0.50	0.50	ug/L							

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332339
Date Received: 10/26/17
Date Reported: 11/09/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J3131 - EPA 5030B

Blank (B7J3131-BLK1) Continued

Prepared & Analyzed: 10/31/17

cis-1,3-Dichloropropylene	<0.50	0.50	ug/L
trans-1,3-Dichloropropylene	<0.50	0.50	ug/L
1,1-Dichloropropylene	<0.50	0.50	ug/L
Diisopropyl ether (DIPE)	<2.0	2.0	ug/L
Ethylbenzene	<0.50	0.50	ug/L
Ethyl-tert-Butyl Ether (ETBE)	<2.0	2.0	ug/L
Hexachlorobutadiene	<1.0	1.0	ug/L
2-Hexanone (MBK)	<10	10	ug/L
Isopropylbenzene	<0.50	0.50	ug/L
4-Isopropyltoluene	<1.0	1.0	ug/L
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L
Methylene Chloride	<5.0	5.0	ug/L
4-Methyl-2-pentanone (MIBK)	<10	10	ug/L
Naphthalene	<2.0	2.0	ug/L
n-Propylbenzene	<0.50	0.50	ug/L
Styrene	<0.50	0.50	ug/L
1,1,1,2-Tetrachloroethane	<0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	<0.50	0.50	ug/L
Tetrachloroethylene (PCE)	<0.50	0.50	ug/L
Toluene	<0.50	0.50	ug/L
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L
1,2,4-Trichlorobenzene	<0.50	0.50	ug/L
1,1,1-Trichloroethane	<0.50	0.50	ug/L
1,1,2-Trichloroethane	<0.50	0.50	ug/L
Trichloroethylene (TCE)	<0.50	0.50	ug/L
Trichlorofluoromethane (R11)	<0.50	0.50	ug/L
1,2,3-Trichloropropane	<0.50	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	0.50	ug/L
1,3,5-Trimethylbenzene	<0.50	0.50	ug/L
1,2,4-Trimethylbenzene	<0.50	0.50	ug/L
Vinyl chloride	<0.50	0.50	ug/L

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332339
Date Received: 10/26/17
Date Reported: 11/09/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J3131 - EPA 5030B

Blank (B7J3131-BLK1) Continued

Prepared & Analyzed: 10/31/17

o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	52.7		ug/L	50		105	70-140			
Surrogate: Dibromofluoromethane	54.7		ug/L	50		109	70-140			
Surrogate: Toluene-d8	52.6		ug/L	50		105	70-140			

LCS (B7J3131-BS1)

Prepared & Analyzed: 10/31/17

Acetone	23.3	10	ug/L	20		117	70-130			
tert-Amyl Methyl Ether (TAME)	16.8	2.0	ug/L	20		84.0	70-130			
Benzene	21.7	0.50	ug/L	20		108	75-125			
Bromobenzene	21.8	0.50	ug/L	20		109	70-130			
Bromochloromethane	19.8	0.50	ug/L	20		99.2	70-130			
Bromodichloromethane	21.5	0.50	ug/L	20		108	75-125			
Bromoform	21.4	0.50	ug/L	20		107	75-125			
Bromomethane	20.4	0.50	ug/L	20		102	75-125			
2-Butanone (MEK)	24.1	10	ug/L	20		120	70-130			
tert-Butyl alcohol (TBA)	80.0	10	ug/L	100		80.0	70-130			
sec-Butylbenzene	23.5	0.50	ug/L	20		118	70-130			
tert-Butylbenzene	23.5	0.50	ug/L	20		118	70-130			
n-Butylbenzene	24.2	0.50	ug/L	20		121	70-130			
Carbon Disulfide	20.1	0.50	ug/L	20		100	70-130			
Carbon Tetrachloride	22.8	0.50	ug/L	20		114	75-125			
Chlorobenzene	21.8	0.50	ug/L	20		109	75-125			
Chloroethane	21.4	0.50	ug/L	20		107	75-125			
Chloroform	21.0	0.50	ug/L	20		105	75-125			
Chloromethane	20.3	0.50	ug/L	20		102	65-125			
2-Chlorotoluene	22.8	0.50	ug/L	20		114	70-130			
4-Chlorotoluene	23.0	0.50	ug/L	20		115	70-130			
1,2-Dibromo-3-chloropropane	19.8	1.0	ug/L	20		99.0	70-130			
Dibromochloromethane	21.8	0.50	ug/L	20		109	75-125			
1,2-Dibromoethane (EDB)	20.5	0.50	ug/L	20		102	70-130			
Dibromomethane	20.4	0.50	ug/L	20		102	70-130			

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332339
Date Received: 10/26/17
Date Reported: 11/09/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
VOCs & OXYGENATES by GC/MS - Quality Control										
<i>Batch B7J3131 - EPA 5030B</i>										
LCS (B7J3131-BS1) Continued					Prepared & Analyzed: 10/31/17					
1,3-Dichlorobenzene	21.8	0.50	ug/L	20	109	70-130				
1,2-Dichlorobenzene	22.5	0.50	ug/L	20	113	70-130				
1,4-Dichlorobenzene	21.6	0.50	ug/L	20	108	75-125				
Dichlorodifluoromethane (R12)	18.6	0.50	ug/L	20	93.2	70-130				
1,1-Dichloroethane	21.2	0.50	ug/L	20	106	70-125				
1,2-Dichloroethane (EDC)	21.3	0.50	ug/L	20	107	75-125				
1,1-Dichloroethylene	20.8	0.50	ug/L	20	104	70-130				
trans-1,2-Dichloroethylene	20.6	0.50	ug/L	20	103	75-125				
cis-1,2-Dichloroethylene	21.4	0.50	ug/L	20	107	75-125				
1,2-Dichloropropane	20.2	0.50	ug/L	20	101	75-130				
2,2-Dichloropropane	21.8	0.50	ug/L	20	109	70-130				
1,3-Dichloropropane	20.3	0.50	ug/L	20	102	70-130				
cis-1,3-Dichloropropylene	21.6	0.50	ug/L	20	108	75-125				
trans-1,3-Dichloropropylene	20.6	0.50	ug/L	20	103	70-130				
1,1-Dichloropropylene	22.7	0.50	ug/L	20	113	70-130				
Diisopropyl ether (DIPE)	20.6	2.0	ug/L	20	103	70-130				
Ethylbenzene	22.9	0.50	ug/L	20	114	75-125				
Ethyl-tert-Butyl Ether (ETBE)	18.6	2.0	ug/L	20	92.9	70-130				
Hexachlorobutadiene	24.3	1.0	ug/L	20	122	70-130				
2-Hexanone (MBK)	20.0	10	ug/L	20	100	70-130				
Isopropylbenzene	23.1	0.50	ug/L	20	116	70-130				
4-Isopropyltoluene	22.4	1.0	ug/L	20	112	70-130				
Methyl-tert-Butyl Ether (MTBE)	37.4	1.0	ug/L	40	93.6	75-125				
Methylene Chloride	20.4	5.0	ug/L	20	102	75-130				
4-Methyl-2-pentanone (MIBK)	18.2	10	ug/L	20	90.8	70-130				
Naphthalene	22.1	2.0	ug/L	20	111	70-130				
n-Propylbenzene	23.5	0.50	ug/L	20	117	70-130				
Styrene	23.6	0.50	ug/L	20	118	70-130				
1,1,1,2-Tetrachloroethane	21.1	0.50	ug/L	20	106	70-130				
1,1,2,2-Tetrachloroethane	20.6	0.50	ug/L	20	103	70-135				
Tetrachloroethylene (PCE)	21.9	0.50	ug/L	20	109	75-125				

Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332339
Date Received: 10/26/17
Date Reported: 11/09/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J3131 - EPA 5030B

LCS (B7J3131-BS1) Continued

Prepared & Analyzed: 10/31/17

Toluene	20.7	0.50	ug/L	20		104	75-125			
1,2,3-Trichlorobenzene	23.8	0.50	ug/L	20		119	70-130			
1,2,4-Trichlorobenzene	24.3	0.50	ug/L	20		121	70-130			
1,1,1-Trichloroethane	22.0	0.50	ug/L	20		110	75-125			
1,1,2-Trichloroethane	20.5	0.50	ug/L	20		102	75-125			
Trichloroethylene (TCE)	22.0	0.50	ug/L	20		110	75-125			
Trichlorofluoromethane (R11)	22.4	0.50	ug/L	20		112	70-130			
1,2,3-Trichloropropane	20.6	0.50	ug/L	20		103	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	18.8	0.50	ug/L	20		94.2	70-130			
1,3,5-Trimethylbenzene	23.4	0.50	ug/L	20		117	70-130			
1,2,4-Trimethylbenzene	23.2	0.50	ug/L	20		116	70-130			
Vinyl chloride	19.7	0.50	ug/L	20		98.4	75-125			
o-Xylene	21.2	0.50	ug/L	20		106	75-125			
m,p-Xylenes	42.7	1.0	ug/L	40		107	70-130			
Surrogate: 4-Bromofluorobenzene	51.8		ug/L	50		104	70-140			
Surrogate: Dibromofluoromethane	49.0		ug/L	50		97.9	70-140			
Surrogate: Toluene-d8	51.3		ug/L	50		103	70-140			

Matrix Spike (B7J3131-MS1)

Source: 7J26010-03 Prepared & Analyzed: 10/31/17

Acetone	34.0	10	ug/L	20	14.6	97.0	70-130			
tert-Amyl Methyl Ether (TAME)	16.8	2.0	ug/L	20		84.0	70-130			
Benzene	21.6	0.50	ug/L	20		108	70-130			
Bromobenzene	21.6	0.50	ug/L	20		108	70-130			
Bromochloromethane	20.6	0.50	ug/L	20		103	70-130			
Bromodichloromethane	21.6	0.50	ug/L	20		108	70-130			
Bromoform	21.2	0.50	ug/L	20		106	70-130			
Bromomethane	16.7	0.50	ug/L	20		83.6	70-130			
2-Butanone (MEK)	21.7	10	ug/L	20		108	70-130			
tert-Butyl alcohol (TBA)	107	10	ug/L	100		107	70-130			
sec-Butylbenzene	22.4	0.50	ug/L	20		112	70-130			
tert-Butylbenzene	22.7	0.50	ug/L	20		113	70-130			

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332339
Date Received: 10/26/17
Date Reported: 11/09/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J3131 - EPA 5030B

Matrix Spike (B7J3131-MS1) Continued Source: 7J26010-03 Prepared & Analyzed: 10/31/17

n-Butylbenzene	23.0	0.50	ug/L	20		115	70-130			
Carbon Disulfide	19.8	0.50	ug/L	20		99.1	70-130			
Carbon Tetrachloride	21.8	0.50	ug/L	20		109	70-130			
Chlorobenzene	22.1	0.50	ug/L	20		111	70-130			
Chloroethane	19.8	0.50	ug/L	20		99.2	70-130			
Chloroform	21.5	0.50	ug/L	20		108	70-130			
Chloromethane	19.2	0.50	ug/L	20		96.0	70-130			
2-Chlorotoluene	22.6	0.50	ug/L	20		113	70-130			
4-Chlorotoluene	22.3	0.50	ug/L	20		112	70-130			
1,2-Dibromo-3-chloropropane	19.4	1.0	ug/L	20		97.0	70-130			
Dibromochloromethane	21.3	0.50	ug/L	20		107	70-130			
1,2-Dibromoethane (EDB)	20.7	0.50	ug/L	20		104	70-130			
Dibromomethane	20.7	0.50	ug/L	20		104	70-130			
1,3-Dichlorobenzene	21.8	0.50	ug/L	20		109	70-130			
1,2-Dichlorobenzene	22.1	0.50	ug/L	20		111	70-130			
1,4-Dichlorobenzene	21.0	0.50	ug/L	20		105	70-130			
Dichlorodifluoromethane (R12)	16.4	0.50	ug/L	20		82.0	70-130			
1,1-Dichloroethane	21.7	0.50	ug/L	20		109	70-130			
1,2-Dichloroethane (EDC)	21.0	0.50	ug/L	20		105	70-130			
1,1-Dichloroethylene	20.6	0.50	ug/L	20		103	70-130			
trans-1,2-Dichloroethylene	22.2	0.50	ug/L	20		111	70-130			
cis-1,2-Dichloroethylene	22.1	0.50	ug/L	20		110	70-130			
1,2-Dichloropropane	21.1	0.50	ug/L	20		106	70-130			
2,2-Dichloropropane	18.8	0.50	ug/L	20		94.2	70-130			
1,3-Dichloropropane	20.2	0.50	ug/L	20		101	70-130			
cis-1,3-Dichloropropylene	20.9	0.50	ug/L	20		105	70-130			
trans-1,3-Dichloropropylene	20.0	0.50	ug/L	20		100	70-130			
1,1-Dichloropropylene	22.9	0.50	ug/L	20		114	70-130			
Diisopropyl ether (DIPE)	22.1	2.0	ug/L	20		110	70-130			
Ethylbenzene	23.7	0.50	ug/L	20		119	70-130			
Ethyl-tert-Butyl Ether (ETBE)	16.7	2.0	ug/L	20		83.7	70-130			

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332339
Date Received: 10/26/17
Date Reported: 11/09/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs & OXYGENATES by GC/MS - Quality Control										
<i>Batch B7J3131 - EPA 5030B</i>										
Matrix Spike (B7J3131-MS1) Continued Source: 7J26010-03 Prepared & Analyzed: 10/31/17										
Hexachlorobutadiene	21.2	1.0	ug/L	20		106	70-130			
2-Hexanone (MBK)	18.5	10	ug/L	20		92.3	70-130			
Isopropylbenzene	23.1	0.50	ug/L	20		116	70-130			
4-Isopropyltoluene	21.6	1.0	ug/L	20		108	70-130			
Methyl-tert-Butyl Ether (MTBE)	34.1	1.0	ug/L	40		85.2	70-130			
Methylene Chloride	19.1	5.0	ug/L	20		95.4	70-130			
4-Methyl-2-pentanone (MIBK)	19.0	10	ug/L	20		94.8	70-130			
Naphthalene	23.0	2.0	ug/L	20		115	70-130			
n-Propylbenzene	23.3	0.50	ug/L	20		116	70-130			
Styrene	23.2	0.50	ug/L	20		116	70-130			
1,1,1,2-Tetrachloroethane	22.0	0.50	ug/L	20		110	70-130			
1,1,2,2-Tetrachloroethane	20.2	0.50	ug/L	20		101	70-130			
Tetrachloroethylene (PCE)	21.8	0.50	ug/L	20		109	70-130			
Toluene	21.4	0.50	ug/L	20		107	70-130			
1,2,3-Trichlorobenzene	23.7	0.50	ug/L	20		119	70-130			
1,2,4-Trichlorobenzene	23.0	0.50	ug/L	20		115	70-130			
1,1,1-Trichloroethane	22.5	0.50	ug/L	20		112	70-130			
1,1,2-Trichloroethane	21.3	0.50	ug/L	20		107	70-130			
Trichloroethylene (TCE)	22.2	0.50	ug/L	20		111	70-130			
Trichlorofluoromethane (R11)	20.8	0.50	ug/L	20		104	70-130			
1,2,3-Trichloropropane	19.9	0.50	ug/L	20		99.6	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	18.6	0.50	ug/L	20		93.2	70-130			
1,3,5-Trimethylbenzene	22.6	0.50	ug/L	20		113	70-130			
1,2,4-Trimethylbenzene	23.0	0.50	ug/L	20		115	70-130			
Vinyl chloride	18.8	0.50	ug/L	20		93.8	70-130			
o-Xylene	21.2	0.50	ug/L	20		106	70-130			
m,p-Xylenes	43.5	1.0	ug/L	40		109	70-130			
Surrogate: 4-Bromofluorobenzene	51.8		ug/L	50		104	70-140			
Surrogate: Dibromofluoromethane	49.9		ug/L	50		99.9	70-140			
Surrogate: Toluene-d8	51.1		ug/L	50		102	70-140			

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332339
Date Received: 10/26/17
Date Reported: 11/09/17

Analyte	Reporting Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J3131 - EPA 5030B

Matrix Spike Dup (B7J3131-MSD1) Source: 7J26010-03 Prepared & Analyzed: 10/31/17

Acetone	35.3	10	ug/L	20	14.6	104	70-130	3.93	30	
tert-Amyl Methyl Ether (TAME)	17.5	2.0	ug/L	20		87.6	70-130	4.26	30	
Benzene	21.8	0.50	ug/L	20		109	70-130	0.831	30	
Bromobenzene	22.3	0.50	ug/L	20		112	70-130	3.24	30	
Bromochloromethane	21.7	0.50	ug/L	20		109	70-130	5.34	30	
Bromodichloromethane	22.0	0.50	ug/L	20		110	70-130	1.79	30	
Bromoform	22.2	0.50	ug/L	20		111	70-130	4.42	30	
Bromomethane	19.4	0.50	ug/L	20		97.2	70-130	14.9	30	
2-Butanone (MEK)	24.2	10	ug/L	20		121	70-130	10.9	30	
tert-Butyl alcohol (TBA)	109	10	ug/L	100		109	70-130	1.40	30	
sec-Butylbenzene	22.4	0.50	ug/L	20		112	70-130	0.179	30	
tert-Butylbenzene	22.8	0.50	ug/L	20		114	70-130	0.396	30	
n-Butylbenzene	23.0	0.50	ug/L	20		115	70-130	0.304	30	
Carbon Disulfide	20.3	0.50	ug/L	20		101	70-130	2.29	30	
Carbon Tetrachloride	22.2	0.50	ug/L	20		111	70-130	1.95	30	
Chlorobenzene	22.1	0.50	ug/L	20		110	70-130	0.181	30	
Chloroethane	20.8	0.50	ug/L	20		104	70-130	4.63	30	
Chloroform	21.8	0.50	ug/L	20		109	70-130	1.20	30	
Chloromethane	18.6	0.50	ug/L	20		92.9	70-130	3.33	30	
2-Chlorotoluene	22.5	0.50	ug/L	20		112	70-130	0.577	30	
4-Chlorotoluene	22.1	0.50	ug/L	20		110	70-130	0.991	30	
1,2-Dibromo-3-chloropropane	21.6	1.0	ug/L	20		108	70-130	10.7	30	
Dibromochloromethane	21.8	0.50	ug/L	20		109	70-130	2.36	30	
1,2-Dibromoethane (EDB)	21.3	0.50	ug/L	20		107	70-130	2.85	30	
Dibromomethane	21.5	0.50	ug/L	20		108	70-130	3.93	30	
1,3-Dichlorobenzene	21.8	0.50	ug/L	20		109	70-130	0.138	30	
1,2-Dichlorobenzene	23.1	0.50	ug/L	20		115	70-130	4.34	30	
1,4-Dichlorobenzene	21.2	0.50	ug/L	20		106	70-130	0.994	30	
Dichlorodifluoromethane (R12)	16.0	0.50	ug/L	20		80.2	70-130	2.16	30	
1,1-Dichloroethane	21.6	0.50	ug/L	20		108	70-130	0.462	30	
1,2-Dichloroethane (EDC)	21.8	0.50	ug/L	20		109	70-130	3.50	30	
1,1-Dichloroethylene	21.2	0.50	ug/L	20		106	70-130	3.11	30	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332339
Date Received: 10/26/17
Date Reported: 11/09/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
VOCs & OXYGENATES by GC/MS - Quality Control										
<i>Batch B7J3131 - EPA 5030B</i>										
Matrix Spike Dup (B7J3131-MSD1) Source: 7J26010-03 Prepared & Analyzed: 10/31/17										
Continued										
trans-1,2-Dichloroethylene	19.1	0.50	ug/L	20		95.6	70-130	14.9	30	
cis-1,2-Dichloroethylene	21.8	0.50	ug/L	20		109	70-130	1.23	30	
1,2-Dichloropropane	21.7	0.50	ug/L	20		108	70-130	2.52	30	
2,2-Dichloropropane	19.2	0.50	ug/L	20		95.8	70-130	1.63	30	
1,3-Dichloropropane	21.2	0.50	ug/L	20		106	70-130	5.12	30	
cis-1,3-Dichloropropylene	21.8	0.50	ug/L	20		109	70-130	4.30	30	
trans-1,3-Dichloropropylene	20.3	0.50	ug/L	20		102	70-130	1.59	30	
1,1-Dichloropropylene	22.8	0.50	ug/L	20		114	70-130	0.307	30	
Diisopropyl ether (DIPE)	22.3	2.0	ug/L	20		111	70-130	0.857	30	
Ethylbenzene	23.3	0.50	ug/L	20		116	70-130	1.79	30	
Ethyl-tert-Butyl Ether (ETBE)	17.6	2.0	ug/L	20		88.0	70-130	5.01	30	
Hexachlorobutadiene	22.9	1.0	ug/L	20		115	70-130	7.84	30	
2-Hexanone (MBK)	22.0	10	ug/L	20		110	70-130	17.6	30	
Isopropylbenzene	22.7	0.50	ug/L	20		114	70-130	1.88	30	
4-Isopropyltoluene	21.6	1.0	ug/L	20		108	70-130	0.00	30	
Methyl-tert-Butyl Ether (MTBE)	35.7	1.0	ug/L	40		89.3	70-130	4.70	30	
Methylene Chloride	19.9	5.0	ug/L	20		99.4	70-130	4.16	30	
4-Methyl-2-pentanone (MIBK)	20.2	10	ug/L	20		101	70-130	6.48	30	
Naphthalene	24.8	2.0	ug/L	20		124	70-130	7.28	30	
n-Propylbenzene	23.0	0.50	ug/L	20		115	70-130	1.30	30	
Styrene	23.5	0.50	ug/L	20		117	70-130	0.942	30	
1,1,1,2-Tetrachloroethane	22.0	0.50	ug/L	20		110	70-130	0.0455	30	
1,1,2,2-Tetrachloroethane	21.4	0.50	ug/L	20		107	70-130	6.01	30	
Tetrachloroethylene (PCE)	21.7	0.50	ug/L	20		108	70-130	0.506	30	
Toluene	21.0	0.50	ug/L	20		105	70-130	1.98	30	
1,2,3-Trichlorobenzene	24.7	0.50	ug/L	20		124	70-130	4.05	30	
1,2,4-Trichlorobenzene	24.4	0.50	ug/L	20		122	70-130	5.87	30	
1,1,1-Trichloroethane	21.5	0.50	ug/L	20		108	70-130	4.27	30	
1,1,2-Trichloroethane	21.9	0.50	ug/L	20		110	70-130	2.73	30	
Trichloroethylene (TCE)	21.9	0.50	ug/L	20		110	70-130	1.09	30	
Trichlorofluoromethane (R11)	21.1	0.50	ug/L	20		105	70-130	1.34	30	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332339
Date Received: 10/26/17
Date Reported: 11/09/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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VOCs & OXYGENATES by GC/MS - Quality Control

Batch B7J3131 - EPA 5030B

Matrix Spike Dup (B7J3131-MSD1) Source: 7J26010-03 Prepared & Analyzed: 10/31/17

Continued

1,2,3-Trichloropropane	21.4	0.50	ug/L	20	107	70-130	7.35	30		
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	18.3	0.50	ug/L	20	91.4	70-130	1.95	30		
1,3,5-Trimethylbenzene	22.7	0.50	ug/L	20	113	70-130	0.265	30		
1,2,4-Trimethylbenzene	22.8	0.50	ug/L	20	114	70-130	0.655	30		
Vinyl chloride	18.4	0.50	ug/L	20	92.0	70-130	1.94	30		
o-Xylene	21.4	0.50	ug/L	20	107	70-130	1.41	30		
m,p-Xylenes	42.7	1.0	ug/L	40	107	70-130	1.83	30		
Surrogate: 4-Bromofluorobenzene	51.1		ug/L	50	102	70-140				
Surrogate: Dibromofluoromethane	50.5		ug/L	50	101	70-140				
Surrogate: Toluene-d8	50.3		ug/L	50	101	70-140				

Diesel Range Organics by GC/FID - Quality Control

Batch B7K0625 - EPA 3510C

Blank (B7K0625-BLK1) Prepared & Analyzed: 11/06/17

Diesel Range Organics as Diesel	<0.10	0.10	mg/L							
Surrogate: o-Terphenyl	0.0457		mg/L	0.040	114	50-150				

LCS (B7K0625-BS1) Prepared & Analyzed: 11/06/17

Diesel Range Organics as Diesel	0.875	0.10	mg/L	0.80	109	75-125				
Surrogate: o-Terphenyl	0.0509		mg/L	0.040	127	50-150				

LCS Dup (B7K0625-BSD1) Prepared & Analyzed: 11/06/17

Diesel Range Organics as Diesel	0.608	0.10	mg/L	0.80	76.0	75-125	36.1	30		
Surrogate: o-Terphenyl	0.0279		mg/L	0.040	69.7	50-150				

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GW Sampling

AA Project No: A5332339
Date Received: 10/26/17
Date Reported: 11/09/17

Special Notes

Viorel Vasile
Operations Manager



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

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A.A. COC No.: 13905

70049923

Page 1 of 1

Client: <u>APX-SGI</u>	Project Name / No.: <u>DFSP Norwalk</u>	Sampler's Name: <u>DAVID WILSON</u>
Project Manager: <u>DAN SWENSON</u>	Site Address: <u>15306 Norwalk</u>	Sampler's Signature: <u>[Signature]</u>
Phone: <u>1-562-597-1055</u>	City: <u>Norwalk</u>	P.O. No.: <u>—</u>
Fax: <u>1-562-597-1070</u>	State & Zip: <u>Ca</u>	Quote No.: <u>—</u>

TAT Turnaround Codes **

- ① = Same Day Rush ④ = 72 Hour Rush
- ② = 24 Hour Rush ⑤ = 5 Day Rush
- ③ = 48 Hour Rush X = 10 Working Days (Standard TAT)

ANALYSIS REQUESTED (Test Name)

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	Please enter the TAT Turnaround Codes ** below										Special Instructions	
						8:15M D	8:26OB										
QCTB-1	7226011-01	10-25-17	6:00 AM	GW	2		X										
QCEB-1	02	10-25-17	8:30 AM	GW	2		X										
GMW-04	03	10-25-17	9:00	GW	1	X											
GMW-63	04	10-25-17	10:00	GW	1	X											
GMW-65	05	10-25-17	10:30	GW	1	X											
GMW-3	06	10-25-17	11:30	GW	4	X	X										
EXP-2	07	10-25-17	12:10	GW	4	X	X										
MW-24	08	10-25-17	3:10	GW	4	X	X										
EXP-3	09	10-25-17	1:55	GW	1	X											
EXP-1	10	10-25-17	2:35	GW	1	X											
GMW-69	11	10-25-17	3:45	GW	4	X	X										
QCEB-2	12	10-25-17	4:00	GW	2		X										

SAMPLE INTEGRITY
 INTACT (Y/N) TEMP 40C

For Laboratory Use	
REVIEWED	
Date: <u>10/27/17</u>	Time: <u>0630</u>
TAT: <u>N</u> Days	Sign: <u>[Signature]</u>
A.A. Project No.: <u>AS332339/7226011</u>	

Relinquished by <u>[Signature]</u>	Date <u>10-26-17</u>	Time <u>11:05</u>	Received by <u>[Signature]</u>
Relinquished by <u>[Signature]</u>	Date <u>10/26/17</u>	Time <u>1813</u>	Received by <u>[Signature]</u>
Relinquished by	Date	Time	Received by

Note: By relinquishing samples to American Analytics, client agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analytics.



Alpha Analytical, Inc
255 Glendale Ave, #21
Sparks, Nevada 89431
TEL: (775) 355-1044 FAX: (775) 355-0406
Website: www.alpha-analytical.com

October 16, 2017

Daniel Jablonski
CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
TEL: (213) 228-8271
FAX (714) 424-2135

RE: DFSP Norwalk

Dear Daniel Jablonski:

Order No.: CHH1710053

There were no problems with the analytical events associated with this report unless noted.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink that reads "Roger Scholl". The signature is written in a cursive, flowing style.

Roger Scholl
Laboratory Director
255 Glendale Ave, #21
Sparks, Nevada 89431



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-01
Client Sample ID TB-1

Collection Date: 10/3/2017 7:00:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B



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Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-01
Client Sample ID TB-1

Collection Date: 10/3/2017 7:00:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	111	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	95	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	94	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



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Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-02
Client Sample ID GMW-38

Collection Date: 10/3/2017 4:28:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/7/2017	TPH-E by EPA 8015C
Surr: Nonane	97	35-151		%Rec	10/7/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/12/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	115	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	96	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	96	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B



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Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-02
Client Sample ID GMW-38

Collection Date: 10/3/2017 4:28:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	115	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	96	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	96	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



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Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-03
Client Sample ID MW-19 (Mid)

Collection Date: 10/3/2017 3:13:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/7/2017	TPH-E by EPA 8015C
Surr: Nonane	99	35-151		%Rec	10/7/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/12/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	120	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	92	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	90	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	22	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	4.2	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	2.5	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-03
Client Sample ID MW-19 (Mid)

Collection Date: 10/3/2017 3:13:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	120	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	92	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	90	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



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Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-04
Client Sample ID MW-21 (Mid)

Collection Date: 10/3/2017 3:43:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	0.067	0.050		mg/L	10/7/2017	TPH-E by EPA 8015C
Surr: Nonane	102	35-151		%Rec	10/7/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/12/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	120	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	92	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	91	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	10	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	1.4	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	3.1	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B



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Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-04
Client Sample ID MW-21 (Mid)

Collection Date: 10/3/2017 3:43:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	120	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	92	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	91	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



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Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-05
Client Sample ID PW-3

Collection Date: 10/3/2017 2:19:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/7/2017	TPH-E by EPA 8015C
Surr: Nonane	97	35-151		%Rec	10/7/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/12/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	119	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	94	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	92	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B



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Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-05
Client Sample ID PW-3

Collection Date: 10/3/2017 2:19:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	119	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	94	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	92	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-06
Client Sample ID WCW-2

Collection Date: 10/3/2017 9:24:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/7/2017	TPH-E by EPA 8015C
Surr: Nonane	101	35-151		%Rec	10/7/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/12/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	119	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	94	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	93	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-06
Client Sample ID WCW-2

Collection Date: 10/3/2017 9:24:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	119	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	94	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	93	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-07
Client Sample ID WCW-3

Collection Date: 10/3/2017 10:16:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/7/2017	TPH-E by EPA 8015C
Surr: Nonane	103	35-151		%Rec	10/7/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/12/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	118	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	96	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	94	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	0.50	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-07
Client Sample ID WCW-3

Collection Date: 10/3/2017 10:16:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	118	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	96	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	94	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill **Collection Date:** 10/3/2017 11:19:00 AM
Project: DFSP Norwalk
Lab ID: 1710053-08 **Matrix:** AQUEOUS
Client Sample ID WCW-4

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/7/2017	TPH-E by EPA 8015C
Surr: Nonane	105	35-151		%Rec	10/7/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/12/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	120	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	94	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	95	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-08
Client Sample ID WCW-4

Collection Date: 10/3/2017 11:19:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	120	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	94	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	95	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-09
Client Sample ID WCW-12

Collection Date: 10/3/2017 12:03:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/7/2017	TPH-E by EPA 8015C
Surr: Nonane	101	35-151		%Rec	10/7/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/12/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	126	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	94	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	93	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B



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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-09
Client Sample ID WCW-12

Collection Date: 10/3/2017 12:03:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	126	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	94	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	93	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-10
Client Sample ID WCW-13

Collection Date: 10/3/2017 12:46:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/7/2017	TPH-E by EPA 8015C
Surr: Nonane	98	35-151		%Rec	10/7/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/12/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	126	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	93	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	88	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-10
Client Sample ID WCW-13

Collection Date: 10/3/2017 12:46:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	126	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	93	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	88	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-11
Client Sample ID WCW-14

Collection Date: 10/3/2017 1:28:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/7/2017	TPH-E by EPA 8015C
Surr: Nonane	97	35-151		%Rec	10/7/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/12/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	123	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	95	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	92	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B



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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-11
Client Sample ID WCW-14

Collection Date: 10/3/2017 1:28:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	123	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	95	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	92	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



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Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-12
Client Sample ID DUP-1

Collection Date: 10/3/2017

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	0.071	0.050		mg/L	10/8/2017	TPH-E by EPA 8015C
Surr: Nonane	99	35-151		%Rec	10/8/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/12/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	113	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	96	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	99	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	1.2	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	3.0	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-12
Client Sample ID DUP-1

Collection Date: 10/3/2017

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	113	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	96	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	99	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



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Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-13
Client Sample ID EB-1

Collection Date: 10/3/2017 4:45:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/8/2017	TPH-E by EPA 8015C
Surr: Nonane	139	35-151		%Rec	10/8/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/12/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	114	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	96	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	95	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-13
Client Sample ID EB-1

Collection Date: 10/3/2017 4:45:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	114	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	96	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	95	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



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Analytical Report

WO#: **CHH1710053**

Report Date: **10/16/2017**

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-14
Client Sample ID EXP-2

Collection Date: 10/3/2017 2:20:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.10	X	mg/L	10/8/2017	TPH-E by EPA 8015C
Surr: Nonane	105	35-151		%Rec	10/8/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/12/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	115	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	93	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	94	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	0.98	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B



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Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-14
Client Sample ID EXP-2

Collection Date: 10/3/2017 2:20:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	4.8	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	1.3	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	1.3	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	2.3	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	115	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	93	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	94	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



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Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-15
Client Sample ID EXP-4

Collection Date: 10/3/2017 9:42:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/8/2017	TPH-E by EPA 8015C
Surr: Nonane	103	35-151		%Rec	10/8/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/12/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	117	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	94	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	91	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-15
Client Sample ID EXP-4

Collection Date: 10/3/2017 9:42:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	117	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	94	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	91	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-16
Client Sample ID EXP-5

Collection Date: 10/3/2017 10:38:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/8/2017	TPH-E by EPA 8015C
Surr: Nonane	102	35-151		%Rec	10/8/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/12/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	125	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	93	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	90	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-16
Client Sample ID EXP-5

Collection Date: 10/3/2017 10:38:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	125	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	93	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	90	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



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Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-17
Client Sample ID WCW-5

Collection Date: 10/3/2017 11:30:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/8/2017	TPH-E by EPA 8015C
Surr: Nonane	110	35-151		%Rec	10/8/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/12/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	123	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	93	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	91	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-17
Client Sample ID WCW-5

Collection Date: 10/3/2017 11:30:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	123	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	93	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	91	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-18
Client Sample ID WCW-6

Collection Date: 10/3/2017 12:04:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/8/2017	TPH-E by EPA 8015C
Surr: Nonane	102	35-151		%Rec	10/8/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/12/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	124	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	94	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	92	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-18
Client Sample ID WCW-6

Collection Date: 10/3/2017 12:04:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	124	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	94	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	92	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-19
Client Sample ID WCW-8

Collection Date: 10/3/2017 1:10:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/8/2017	TPH-E by EPA 8015C
Surr: Nonane	92	35-151		%Rec	10/8/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/12/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	125	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	95	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	92	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-19
Client Sample ID WCW-8

Collection Date: 10/3/2017 1:10:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	125	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	95	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	92	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-20
Client Sample ID MW-6

Collection Date: 10/3/2017 2:06:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/8/2017	TPH-E by EPA 8015C
Surr: Nonane	102	35-151		%Rec	10/8/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/12/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	132	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	92	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	88	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	2.0	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	1.3	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	14	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-20
Client Sample ID MW-6

Collection Date: 10/3/2017 2:06:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	132	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	92	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	88	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-21
Client Sample ID MW-7

Collection Date: 10/3/2017 2:52:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/8/2017	TPH-E by EPA 8015C
Surr: Nonane	93	35-151		%Rec	10/8/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/12/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	98	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	110	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-21
Client Sample ID MW-7

Collection Date: 10/3/2017 2:52:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	98	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	110	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-22
Client Sample ID MW-20 (Mid)

Collection Date: 10/3/2017 3:45:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.10	X	mg/L	10/8/2017	TPH-E by EPA 8015C
Surr: Nonane	95	35-151		%Rec	10/8/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/12/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	94	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	109	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	16	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	6.8	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	5.1	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	8.6	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-22
Client Sample ID MW-20 (Mid)

Collection Date: 10/3/2017 3:45:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	94	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	109	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-23
Client Sample ID GMW-37

Collection Date: 10/3/2017 4:31:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/8/2017	TPH-E by EPA 8015C
Surr: Nonane	87	35-151		%Rec	10/8/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/12/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	107	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-23
Client Sample ID GMW-37

Collection Date: 10/3/2017 4:31:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	107	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-24
Client Sample ID EB-2

Collection Date: 10/3/2017 4:45:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/8/2017	TPH-E by EPA 8015C
Surr: Nonane	103	35-151		%Rec	10/8/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/12/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	108	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710053

Report Date: 10/16/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710053-24
Client Sample ID EB-2

Collection Date: 10/3/2017 4:45:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	108	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



Client: CH2M Hill
Project: DFSP Norwalk

TestCode: TPH/E_W

Sample ID: MB-2347	SampType: MBLK	TestCode: TPH/E_W	Units: mg/L
Client ID: PBW	Batch ID: 2347	TestNo: SW8015	SW8015
Prep Date: 10/6/2017	RunNo: 1875	SeqNo: 46109	
Analysis Date: 10/8/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	ND	0.05									
Surr: Nonane	0.14		0.15		90.0	34.51	151.49				

Sample ID: LCS-2347	SampType: LCS	TestCode: TPH/E_W	Units: mg/L
Client ID: LCSW	Batch ID: 2347	TestNo: SW8015	SW8015
Prep Date: 10/6/2017	RunNo: 1875	SeqNo: 46110	
Analysis Date: 10/8/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	2.24	0.05	2.5	0	89.8	72.51	151.49				
Surr: Nonane	0.137		0.15		91.3	34.51	151.49				

Sample ID: 1710053-24AMSD	SampType: MSD	TestCode: TPH/E_W	Units: mg/L
Client ID: EB-2MSD	Batch ID: 2347	TestNo: SW8015	SW8015
Prep Date: 10/6/2017	RunNo: 1875	SeqNo: 46113	
Analysis Date: 10/8/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	2.25	0.1	2.5	0	89.8	63.51	161.49	2.35	4.5	40	
Surr: Nonane	0.284		0.3		94.7	32.51	162.49	0.294	0	0	

Sample ID: 1710053-24AMS	SampType: MS	TestCode: TPH/E_W	Units: mg/L
Client ID: EB-2MS	Batch ID: 2347	TestNo: SW8015	SW8015
Prep Date: 10/6/2017	RunNo: 1875	SeqNo: 46112	
Analysis Date: 10/8/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	2.35	0.1	2.5	0	94.0	63.51	161.49				
Surr: Nonane	0.294		0.3		98.0	32.51	162.49				

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



QC SUMMARY REPORT

WO#: 1710053

16-Oct-17

Client: CH2M Hill
Project: DFSP Norwalk

TestCode: TPH/E_W

Sample ID: MB-2349	SampType: MBLK	TestCode: TPH/E_W	Units: mg/L
Client ID: PBW	Batch ID: 2349	TestNo: SW8015	SW8015
Prep Date: 10/6/2017	RunNo: 1878	SeqNo: 46155	
Analysis Date: 10/7/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	ND	0.05									
Surr: Nonane	0.16		0.15		104	34.51	151.49				B

Sample ID: LCS-2349	SampType: LCS	TestCode: TPH/E_W	Units: mg/L
Client ID: LCSW	Batch ID: 2349	TestNo: SW8015	SW8015
Prep Date: 10/6/2017	RunNo: 1878	SeqNo: 46156	
Analysis Date: 10/7/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	2.59	0.05	2.5	0	103	72.51	151.49				
Surr: Nonane	0.168		0.15		112	34.51	151.49				

Sample ID: 1710053-03AMSD	SampType: MSD	TestCode: TPH/E_W	Units: mg/L
Client ID: MW-19 (Mid)MSD	Batch ID: 2349	TestNo: SW8015	SW8015
Prep Date: 10/6/2017	RunNo: 1878	SeqNo: 46160	
Analysis Date: 10/7/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	2.35	0.1	2.5	0	94.2	63.51	161.49	2.29	2.9	40	
Surr: Nonane	0.314		0.3		105	32.51	162.49	0.306	0	0	

Sample ID: 1710053-03AMS	SampType: MS	TestCode: TPH/E_W	Units: mg/L
Client ID: MW-19 (Mid)MS	Batch ID: 2349	TestNo: SW8015	SW8015
Prep Date: 10/6/2017	RunNo: 1878	SeqNo: 46159	
Analysis Date: 10/7/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	2.29	0.1	2.5	0	91.5	63.51	161.49				
Surr: Nonane	0.306		0.3		102	32.51	162.49				

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



Client: CH2M Hill
Project: DFSP Norwalk

TestCode: TPH/P_W

Sample ID: MB-2382	SampType: MBLK	TestCode: TPH/P_W	Units: mg/L
Client ID: PBW	Batch ID: A2382B	TestNo: SW8015	
Prep Date: 10/12/2017	RunNo: 1909	SeqNo: 46977	
Analysis Date: 10/12/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	ND	0.05									
Surr: 1,2-Dichloroethane-d4	0.011		0.01		107	69.51	130.49				
Surr: Toluene-d8	0.0097		0.01		97.0	69.51	130.49				
Surr: 4-Bromofluorobenzene	0.0097		0.01		96.8	69.51	130.49				

Sample ID: GLCS-2382	SampType: GLCS	TestCode: TPH/P_W	Units: mg/L
Client ID: BatchQC	Batch ID: A2382B	TestNo: SW8015	
Prep Date: 10/12/2017	RunNo: 1909	SeqNo: 46976	
Analysis Date: 10/12/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	0.419	0.05	0.4	0	105	69.51	130.49				
Surr: 1,2-Dichloroethane-d4	0.0106		0.01		106	69.51	130.49				
Surr: Toluene-d8	0.00944		0.01		94.4	69.51	130.49				
Surr: 4-Bromofluorobenzene	0.00998		0.01		99.8	69.51	130.49				

Sample ID: 1710053-02AGSD	SampType: GSD	TestCode: TPH/P_W	Units: mg/L
Client ID: GMW-38	Batch ID: A2382B	TestNo: SW8015	
Prep Date: 10/12/2017	RunNo: 1909	SeqNo: 46998	
Analysis Date: 10/12/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	2.1	0.25	2	0	105	53.51	143.49	2.02	3.9	23	
Surr: 1,2-Dichloroethane-d4	0.0587		0.05		117	69.51	130.49	0.0581	0	0	
Surr: Toluene-d8	0.0457		0.05		91.5	69.51	130.49	0.0458	0	0	
Surr: 4-Bromofluorobenzene	0.0476		0.05		95.3	69.51	130.49	0.0472	0	0	

Sample ID: 1710053-02AGS	SampType: GS	TestCode: TPH/P_W	Units: mg/L
Client ID: GMW-38	Batch ID: A2382B	TestNo: SW8015	
Prep Date: 10/12/2017	RunNo: 1909	SeqNo: 46997	
Analysis Date: 10/12/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	2.02	0.25	2	0	101	53.51	143.49				
Surr: 1,2-Dichloroethane-d4	0.0581		0.05		116	69.51	130.49				
Surr: Toluene-d8	0.0458		0.05		91.5	69.51	130.49				
Surr: 4-Bromofluorobenzene	0.0472		0.05		94.4	69.51	130.49				

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



Client: CH2M Hill
Project: DFSP Norwalk

TestCode: TPH/P_W

Sample ID: 1710053-02AGS	SampType: GS	TestCode: TPH/P_W	Units: mg/L								
Client ID: GMW-38	Batch ID: A2382B	TestNo: SW8015									
Prep Date: 10/12/2017	RunNo: 1909	SeqNo: 46997									
Analysis Date: 10/12/2017											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: MB-2383	SampType: MBLK	TestCode: TPH/P_W	Units: mg/L								
Client ID: PBW	Batch ID: A2383B	TestNo: SW8015									
Prep Date: 10/12/2017	RunNo: 1906	SeqNo: 46850									
Analysis Date: 10/12/2017											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-P (GRO)	ND	0.05									
Surr: 1,2-Dichloroethane-d4	0.0099		0.01		98.6	69.51	130.49				
Surr: Toluene-d8	0.011		0.01		108	69.51	130.49				
Surr: 4-Bromofluorobenzene	0.011		0.01		110	69.51	130.49				

Sample ID: GLCS-2383	SampType: GLCS	TestCode: TPH/P_W	Units: mg/L								
Client ID: BatchQC	Batch ID: A2383B	TestNo: SW8015									
Prep Date: 10/12/2017	RunNo: 1906	SeqNo: 46851									
Analysis Date: 10/12/2017											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-P (GRO)	0.375	0.05	0.4	0	93.7	69.51	130.49				
Surr: 1,2-Dichloroethane-d4	0.00971		0.01		97.1	69.51	130.49				
Surr: Toluene-d8	0.0109		0.01		109	69.51	130.49				
Surr: 4-Bromofluorobenzene	0.0104		0.01		104	69.51	130.49				

Sample ID: 1710060-02AGSD	SampType: GSD	TestCode: TPH/P_W	Units: mg/L								
Client ID: BatchQC	Batch ID: A2383B	TestNo: SW8015									
Prep Date: 10/12/2017	RunNo: 1906	SeqNo: 46871									
Analysis Date: 10/12/2017											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-P (GRO)	1.48	0.25	2	0	74.1	53.51	143.49	1.35	9.4	23	
Surr: 1,2-Dichloroethane-d4	0.0504		0.05		101	69.51	130.49	0.0512	0	0	
Surr: Toluene-d8	0.0535		0.05		107	69.51	130.49	0.0543	0	0	
Surr: 4-Bromofluorobenzene	0.0561		0.05		112	69.51	130.49	0.0564	0	0	

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



QC SUMMARY REPORT

WO#: 1710053

16-Oct-17

Client: CH2M Hill
Project: DFSP Norwalk

TestCode: TPH/P_W

Sample ID: 1710060-02AGS	SampType: GS	TestCode: TPH/P_W	Units: mg/L
Client ID: BatchQC	Batch ID: A2383B	TestNo: SW8015	
Prep Date: 10/12/2017	RunNo: 1906	SeqNo: 46870	
Analysis Date: 10/12/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	1.35	0.25	2	0	67.5	53.51	143.49				
Surr: 1,2-Dichloroethane-d4	0.0512		0.05		102	69.51	130.49				
Surr: Toluene-d8	0.0543		0.05		109	69.51	130.49				
Surr: 4-Bromofluorobenzene	0.0564		0.05		113	69.51	130.49				

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1710053

16-Oct-17

Client: CH2M Hill
Project: DFSP Norwalk

TestCode: VOC_W

Sample ID: MB-2382	SampType: MBLK	TestCode: VOC_W	Units: µg/L
Client ID: PBW	Batch ID: A2382	TestNo: SW8260B	
Prep Date: 10/12/2017	RunNo: 1909	SeqNo: 46973	
Analysis Date: 10/12/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	1									
Chloromethane	ND	2									
Vinyl chloride	ND	1									
Chloroethane	ND	1									
Bromomethane	ND	2									
Trichlorofluoromethane	ND	1									
Acetone	ND	10									
1,1-Dichloroethene	ND	1									
Tertiary Butyl Alcohol (TBA)	ND	10									
Dichloromethane	ND	2									
Freon-113	ND	1									
Carbon disulfide	ND	2.5									
trans-1,2-Dichloroethene	ND	1									
Methyl tert-butyl ether (MTBE)	ND	0.25									
1,1-Dichloroethane	ND	1									
Vinyl acetate	ND	50									
2-Butanone (MEK)	ND	10									
Di-isopropyl Ether (DIPE)	ND	1									
cis-1,2-Dichloroethene	ND	1									
Bromochloromethane	ND	1									
Chloroform	ND	1									
Ethyl Tertiary Butyl Ether (ETBE)	ND	1									
2,2-Dichloropropane	ND	1									
1,2-Dichloroethane	ND	1									
1,1,1-Trichloroethane	ND	1									
1,1-Dichloropropene	ND	1									
Carbon tetrachloride	ND	1									
Benzene	ND	0.25									
Tertiary Amyl Methyl Ether (TAME)	ND	1									
Dibromomethane	ND	1									
1,2-Dichloropropane	ND	1									
Trichloroethene	ND	1									
Bromodichloromethane	ND	1									
4-Methyl-2-pentanone (MIBK)	ND	2.5									
cis-1,3-Dichloropropene	ND	1									
trans-1,3-Dichloropropene	ND	1									
1,1,2-Trichloroethane	ND	1									
Toluene	ND	0.25									
1,3-Dichloropropane	ND	1									
2-Hexanone	ND	5									

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



Client: CH2M Hill
Project: DFSP Norwalk

TestCode: VOC_W

Sample ID: MB-2382	SampType: MBLK	TestCode: VOC_W	Units: µg/L
Client ID: PBW	Batch ID: A2382	TestNo: SW8260B	
Prep Date: 10/12/2017	RunNo: 1909	SeqNo: 46973	
Analysis Date: 10/12/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloromethane	ND	1									
1,2-Dibromoethane (EDB)	ND	2									
Tetrachloroethene	ND	1									
1,1,1,2-Tetrachloroethane	ND	1									
Chlorobenzene	ND	1									
Ethylbenzene	ND	0.25									
m,p-Xylene	ND	0.25									
Bromoform	ND	1									
Xylenes, Total	ND	0.25									
Styrene	ND	1									
o-Xylene	ND	0.25									
1,1,2,2-Tetrachloroethane	ND	1									
1,2,3-Trichloropropane	ND	2									
Isopropylbenzene	ND	1									
Bromobenzene	ND	1									
n-Propylbenzene	ND	1									
4-Chlorotoluene	ND	1									
2-Chlorotoluene	ND	1									
1,3,5-Trimethylbenzene	ND	1									
tert-Butylbenzene	ND	1									
1,2,4-Trimethylbenzene	ND	1									
sec-Butylbenzene	ND	1									
1,3-Dichlorobenzene	ND	1									
1,4-Dichlorobenzene	ND	1									
4-Isopropyltoluene	ND	1									
1,2-Dichlorobenzene	ND	1									
n-Butylbenzene	ND	1									
1,2-Dibromo-3-chloropropane (DBCP)	ND	3									
1,2,4-Trichlorobenzene	ND	2									
Naphthalene	ND	2									
1,2,3-Trichlorobenzene	ND	2									
Surr: 1,2-Dichloroethane-d4	11		10		107	69.51	130.49				
Surr: Toluene-d8	9.7		10		97.0	69.51	130.49				
Surr: 4-Bromofluorobenzene	9.7		10		96.8	69.51	130.49				

Qualifiers:
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QC SUMMARY REPORT

WO#: 1710053

16-Oct-17

Client: CH2M Hill
Project: DFSP Norwalk

TestCode: VOC_W

Sample ID: LCS-2382	SampType: LCS	TestCode: VOC_W	Units: µg/L
Client ID: LCSW	Batch ID: A2382	TestNo: SW8260B	
Prep Date: 10/12/2017	RunNo: 1909	SeqNo: 46972	
Analysis Date: 10/12/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	10	1	10	0	100	68.51	130.49				
Chloromethane	9.61	2	10	0	96.1	39.51	145.49				
Vinyl chloride	8.83	1	10	0	88.3	41.51	157.49				
Chloroethane	8.97	1	10	0	89.7	69.51	130.49				
Bromomethane	10.4	2	10	0	104	13.51	162.49				
Trichlorofluoromethane	11.8	1	10	0	118	45.51	154.49				
Acetone	158	10	200	0	79.2	21.51	188.49				
1,1-Dichloroethene	9.83	1	10	0	98.3	69.51	130.49				
Tertiary Butyl Alcohol (TBA)	81.9	10	100	0	81.9	69.51	130.49				
Dichloromethane	8.93	2	10	0	89.3	65.51	135.49				
Freon-113	9.45	1	10	0	94.5	69.51	131.49				
trans-1,2-Dichloroethene	9.65	1	10	0	96.5	69.51	131.49				
Methyl tert-butyl ether (MTBE)	10.3	0.25	10	0	103	68.51	134.49				
1,1-Dichloroethane	9.44	1	10	0	94.4	69.51	130.49				
2-Butanone (MEK)	165	10	200	0	82.5	25.51	183.49				
Di-isopropyl Ether (DIPE)	9.17	1	10	0	91.7	48.51	147.49				
cis-1,2-Dichloroethene	9.02	1	10	0	90.2	69.51	130.49				
Bromochloromethane	9.45	1	10	0	94.5	57.51	147.49				
Chloroform	9.27	1	10	0	92.7	39.51	145.49				
Ethyl Tertiary Butyl Ether (ETBE)	9.78	1	10	0	97.8	69.51	130.49				
2,2-Dichloropropane	13.4	1	10	0	134	25.51	183.49				
1,2-Dichloroethane	9.65	1	10	0	96.5	69.51	130.49				
1,1,1-Trichloroethane	10.3	1	10	0	102	69.51	130.49				
1,1-Dichloropropene	10.4	1	10	0	104	53.51	135.49				
Carbon tetrachloride	10.9	1	10	0	109	69.51	130.49				
Benzene	9.5	0.25	10	0	95.0	69.51	130.49				
Tertiary Amyl Methyl Ether (TAME)	9.53	1	10	0	95.3	47.51	148.49				
Dibromomethane	9.73	1	10	0	97.3	31.51	145.49				
1,2-Dichloropropane	8.95	1	10	0	89.5	69.51	134.49				
Trichloroethene	9.5	1	10	0	95.0	45.51	154.49				
Bromodichloromethane	10	1	10	0	100	59.51	144.49				
4-Methyl-2-pentanone (MIBK)	19.8	2.5	25	0	79.2	21.51	188.49				
cis-1,3-Dichloropropene	10.4	1	10	0	104	68.51	133.49				
trans-1,3-Dichloropropene	9.48	1	10	0	94.8	69.51	131.49				
1,1,2-Trichloroethane	9.35	1	10	0	93.5	69.51	130.49				
Toluene	8.6	0.25	10	0	86.0	69.51	132.49				
1,3-Dichloropropane	8.81	1	10	0	88.1	69.51	130.49				
2-Hexanone	83	5	100	0	83.0	69.51	132.49				
Dibromochloromethane	9.87	1	10	0	98.7	69.51	130.49				
1,2-Dibromoethane (EDB)	18.1	2	20	0	90.5	69.51	131.49				

Qualifiers:
 B Analyte detected in the associated Method Blank
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QC SUMMARY REPORT

WO#: 1710053

16-Oct-17

Client: CH2M Hill
Project: DFSP Norwalk

TestCode: VOC_W

Sample ID: LCS-2382	SampType: LCS	TestCode: VOC_W	Units: µg/L
Client ID: LCSW	Batch ID: A2382	TestNo: SW8260B	
Prep Date: 10/12/2017	RunNo: 1909	SeqNo: 46972	
Analysis Date: 10/12/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	9.59	1	10	0	95.9	69.51	130.49				
1,1,1,2-Tetrachloroethane	9.38	1	10	0	93.8	69.51	135.49				
Chlorobenzene	8.93	1	10	0	89.3	37.51	156.49				
Ethylbenzene	8.95	0.25	10	0	89.5	69.51	136.49				
m,p-Xylene	9.39	0.25	10	0	93.9	62.51	137.49				
Bromoform	11	1	10	0	110	13.51	162.49				
Xylenes, Total	18.6	0.25	20	0	93.2	49.51	200.49				
Styrene	9.75	1	10	0	97.5	54.51	144.49				
o-Xylene	9.25	0.25	10	0	92.5	69.51	132.49				
1,1,2,2-Tetrachloroethane	9.08	1	10	0	90.8	69.51	130.49				
1,2,3-Trichloropropane	18.8	2	20	0	93.8	61.51	131.49				
Isopropylbenzene	8.81	1	10	0	88.1	64.51	139.49				
Bromobenzene	8.86	1	10	0	88.6	69.51	133.49				
n-Propylbenzene	9.14	1	10	0	91.4	38.51	149.49				
4-Chlorotoluene	8.97	1	10	0	89.7	39.51	161.49				
2-Chlorotoluene	8.97	1	10	0	89.7	47.51	157.49				
1,3,5-Trimethylbenzene	9.05	1	10	0	90.5	69.51	130.49				
tert-Butylbenzene	8.93	1	10	0	89.3	62.51	139.49				
1,2,4-Trimethylbenzene	9.1	1	10	0	91.0	66.51	130.49				
sec-Butylbenzene	9.28	1	10	0	92.8	54.51	144.49				
1,3-Dichlorobenzene	9.18	1	10	0	91.8	69.51	130.49				
1,4-Dichlorobenzene	9.11	1	10	0	91.1	69.51	130.49				
4-Isopropyltoluene	9.39	1	10	0	93.9	58.51	140.49				
1,2-Dichlorobenzene	8.95	1	10	0	89.5	69.51	133.49				
n-Butylbenzene	9.68	1	10	0	96.8	68.51	134.49				
1,2-Dibromo-3-chloropropane (DBCP)	51.7	3	50	0	103	69.51	131.49				
1,2,4-Trichlorobenzene	8.66	2	10	0	86.6	69.51	133.49				
Naphthalene	7.8	2	10	0	78.0	69.51	130.49				
1,2,3-Trichlorobenzene	8.22	2	10	0	82.2	69.51	130.49				
Surr: 1,2-Dichloroethane-d4	11.4		10		114	69.51	130.49				
Surr: Toluene-d8	9.59		10		95.9	69.51	130.49				
Surr: 4-Bromofluorobenzene	10.1		10		101	69.51	130.49				

Sample ID: 1710053-02AMSD	SampType: MSD	TestCode: VOC_W	Units: µg/L
Client ID: GMW-38MSD	Batch ID: A2382	TestNo: SW8260B	
Prep Date: 10/12/2017	RunNo: 1909	SeqNo: 46971	
Analysis Date: 10/12/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1710053

16-Oct-17

Client: CH2M Hill
Project: DFSP Norwalk

TestCode: VOC_W

Sample ID: 1710053-02AMSD	SampType: MSD	TestCode: VOC_W	Units: µg/L
Client ID: GMW-38MSD	Batch ID: A2382	TestNo: SW8260B	
Prep Date: 10/12/2017	RunNo: 1909	SeqNo: 46971	
Analysis Date: 10/12/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	47.6	5	50	0	95.2	11.51	150.49	54.6	14	30	
Chloromethane	43.3	10	50	0	86.6	25.51	146.49	42.2	2.6	30	
Vinyl chloride	44.3	5	50	0	88.5	45.51	142.49	44.1	0.32	30	
Chloroethane	45.8	5	50	0	91.5	24.51	164.49	47.3	3.3	30	
Bromomethane	31.9	10	50	0	63.9	9.51	172.49	22.1	36	30	R
Trichlorofluoromethane	65.5	5	50	0	131	31.51	164.49	72	9.4	30	
Acetone	877	50	1000	0	87.7	9.51	188.49	923	5.2	30	
1,1-Dichloroethene	51	5	50	0	102	61.51	133.49	51	0.02	30	
Tertiary Butyl Alcohol (TBA)	491	50	500	0	98.3	43.51	155.49	520	5.6	30	
Dichloromethane	47.9	10	50	0	95.8	68.51	130.49	48.9	2.1	30	
Freon-113	43.9	5	50	0	87.9	55.51	144.49	48.8	11	30	
trans-1,2-Dichloroethene	50.7	5	50	0	101	66.51	131.49	51.1	0.73	30	
Methyl tert-butyl ether (MTBE)	55.1	1.25	50	0	110	55.51	140.49	56.7	2.8	30	
1,1-Dichloroethane	52.5	5	50	0	105	66.51	130.49	53.1	1.1	30	
2-Butanone (MEK)	884	50	1000	0	88.4	25.51	183.49	937	5.9	30	
Di-isopropyl Ether (DIPE)	50.5	5	50	0	101	58.51	138.49	51.7	2.3	30	
cis-1,2-Dichloroethene	50.5	5	50	0	101	69.51	130.49	49.1	2.8	30	
Bromochloromethane	50.5	5	50	0	101	69.51	134.49	51.8	2.6	30	
Chloroform	52.6	5	50	0	105	68.51	130.49	53.1	1	30	
Ethyl Tertiary Butyl Ether (ETBE)	52.7	5	50	0	105	61.51	135.49	54.1	2.7	30	
2,2-Dichloropropane	64.4	5	50	0	129	43.51	149.49	67.2	4.3	30	
1,2-Dichloroethane	56.6	5	50	0	113	63.51	139.49	60	5.9	30	
1,1,1-Trichloroethane	58.6	5	50	0	117	64.51	139.49	61.7	5.3	30	
1,1-Dichloropropene	55	5	50	0	110	67.51	134.49	57.6	4.6	30	
Carbon tetrachloride	60.6	5	50	0	121	55.51	146.49	64.8	6.7	30	
Benzene	51.4	1.25	50	0	103	66.51	134.49	52.9	3	30	
Tertiary Amyl Methyl Ether (TAME)	55.5	5	50	0	111	63.51	135.49	58.9	6	30	
Dibromomethane	52	5	50	0	104	69.51	132.49	56	7.3	30	
1,2-Dichloropropane	48.3	5	50	0	96.6	68.51	134.49	49.5	2.6	30	
Trichloroethene	49.3	5	50	0	98.6	67.51	138.49	51.4	4.1	30	
Bromodichloromethane	57.1	5	50	0	114	57.51	147.49	59.9	4.8	30	
4-Methyl-2-pentanone (MIBK)	102	12.5	125	0	81.8	48.51	140.49	109	6.2	30	
cis-1,3-Dichloropropene	49.3	5	50	0	98.6	60.51	130.49	50.5	2.5	30	
trans-1,3-Dichloropropene	49.5	5	50	0	99.1	61.51	131.49	52.2	5.2	30	
1,1,2-Trichloroethane	49.6	5	50	0	99.2	69.51	131.49	53.7	8	30	
Toluene	42	1.25	50	0	84.1	37.51	130.49	42.8	1.8	30	
1,3-Dichloropropane	43.2	5	50	0	86.3	69.51	130.49	44.7	3.6	30	
2-Hexanone	421	25	500	0	84.2	24.51	157.49	443	5.1	30	
Dibromochloromethane	49.3	5	50	0	98.7	48.51	147.49	51.2	3.7	30	
1,2-Dibromoethane (EDB)	88.3	10	100	0	88.3	69.51	131.49	92.8	5	30	

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1710053

16-Oct-17

Client: CH2M Hill
Project: DFSP Norwalk

TestCode: VOC_W

Sample ID: 1710053-02AMSD	SampType: MSD	TestCode: VOC_W	Units: µg/L
Client ID: GMW-38MSD	Batch ID: A2382	TestNo: SW8260B	
Prep Date: 10/12/2017	RunNo: 1909	SeqNo: 46971	
Analysis Date: 10/12/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	43.5	5	50	0	87.0	62.51	134.49	45.2	3.8	30	
1,1,1,2-Tetrachloroethane	48.7	5	50	0	97.4	69.51	133.49	50.4	3.5	30	
Chlorobenzene	44	5	50	0	87.9	69.51	130.49	45.9	4.3	30	
Ethylbenzene	44.2	1.25	50	0	88.3	69.51	130.49	45.9	3.9	30	
m,p-Xylene	44.6	1.25	50	0	89.1	64.51	139.49	46.8	5	30	
Bromoform	53.5	5	50	0	107	59.51	144.49	58.1	8.2	30	
Xylenes, Total	89.9	1.25	100	0	89.9	69.51	130.49	94.3	4.7	30	
Styrene	47.4	5	50	0	94.8	52.51	144.49	50.1	5.6	30	
o-Xylene	45.4	1.25	50	0	90.7	68.51	130.49	47.4	4.5	30	
1,1,2,2-Tetrachloroethane	46.2	5	50	0	92.3	66.51	134.49	49.6	7.2	30	
1,2,3-Trichloropropane	97.3	10	100	0	97.3	69.51	130.49	107	9.7	30	
Isopropylbenzene	40.2	5	50	0	80.4	63.51	136.49	40.4	0.37	30	
Bromobenzene	41.5	5	50	0	83.1	68.51	130.49	42	1.1	30	
n-Propylbenzene	40.3	5	50	0	80.6	64.51	132.49	40.7	1	30	
4-Chlorotoluene	40.6	5	50	0	81.3	68.51	132.49	40.6	0.17	30	
2-Chlorotoluene	41.2	5	50	0	82.4	68.51	130.49	41.4	0.56	30	
1,3,5-Trimethylbenzene	40.9	5	50	0	81.9	63.51	135.49	41.9	2.4	30	
tert-Butylbenzene	41	5	50	0	81.9	62.51	139.49	41.3	0.75	30	
1,2,4-Trimethylbenzene	41	5	50	0	82.1	61.51	135.49	42.4	3.4	30	
sec-Butylbenzene	40.5	5	50	0	81.1	67.51	132.49	41.1	1.4	30	
1,3-Dichlorobenzene	40.7	5	50	0	81.4	69.51	130.49	42.6	4.7	30	
1,4-Dichlorobenzene	40.4	5	50	0	80.7	69.51	130.49	42	4	30	
4-Isopropyltoluene	40.1	5	50	0	80.2	39.51	161.49	42.3	5.2	30	
1,2-Dichlorobenzene	41.3	5	50	0	82.7	69.51	130.49	43.1	4.1	30	
n-Butylbenzene	39.7	5	50	0	79.5	57.51	135.49	41.9	5.3	30	
1,2-Dibromo-3-chloropropane (DBCP)	281	15	250	0	112	62.51	131.49	286	2	30	
1,2,4-Trichlorobenzene	43.2	10	50	0	86.5	56.51	134.49	43.6	0.78	30	
Naphthalene	50.9	10	50	0	102	30.51	157.49	42.3	19	30	
1,2,3-Trichlorobenzene	53.6	10	50	0	107	51.51	138.49	46.3	15	30	
Surr: 1,2-Dichloroethane-d4	66		50		132	69.51	130.49	67.5	0	0	S
Surr: Toluene-d8	45.2		50		90.3	69.51	130.49	44.1	0	0	
Surr: 4-Bromofluorobenzene	47.2		50		94.4	69.51	130.49	45.2	0	0	

Sample ID: 1710053-02AMS	SampType: MS	TestCode: VOC_W	Units: µg/L
Client ID: GMW-38MS	Batch ID: A2382	TestNo: SW8260B	
Prep Date: 10/12/2017	RunNo: 1909	SeqNo: 46970	
Analysis Date: 10/12/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1710053

16-Oct-17

Client: CH2M Hill
Project: DFSP Norwalk

TestCode: VOC_W

Sample ID: 1710053-02AMS	SampType: MS	TestCode: VOC_W	Units: µg/L
Client ID: GMW-38MS	Batch ID: A2382	TestNo: SW8260B	
Prep Date: 10/12/2017	RunNo: 1909	SeqNo: 46970	
Analysis Date: 10/12/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	54.6	5	50	0	109	11.51	150.49				
Chloromethane	42.2	10	50	0	84.4	25.51	146.49				
Vinyl chloride	44.1	5	50	0	88.2	45.51	142.49				
Chloroethane	47.3	5	50	0	94.6	24.51	164.49				
Bromomethane	22.1	10	50	0	44.2	9.51	172.49				
Trichlorofluoromethane	72	5	50	0	144	31.51	164.49				
Acetone	923	50	1000	0	92.3	9.51	188.49				
1,1-Dichloroethene	51	5	50	0	102	61.51	133.49				
Tertiary Butyl Alcohol (TBA)	520	50	500	0	104	43.51	155.49				
Dichloromethane	48.9	10	50	0	97.8	68.51	130.49				
Freon-113	48.8	5	50	0	97.7	55.51	144.49				
trans-1,2-Dichloroethene	51.1	5	50	0	102	66.51	131.49				
Methyl tert-butyl ether (MTBE)	56.7	1.25	50	0	113	55.51	140.49				
1,1-Dichloroethane	53.1	5	50	0	106	66.51	130.49				
2-Butanone (MEK)	937	50	1000	0	93.7	25.51	183.49				
Di-isopropyl Ether (DIPE)	51.7	5	50	0	103	58.51	138.49				
cis-1,2-Dichloroethene	49.1	5	50	0	98.2	69.51	130.49				
Bromochloromethane	51.8	5	50	0	104	69.51	134.49				
Chloroform	53.1	5	50	0	106	68.51	130.49				
Ethyl Tertiary Butyl Ether (ETBE)	54.1	5	50	0	108	61.51	135.49				
2,2-Dichloropropane	67.2	5	50	0	134	43.51	149.49				
1,2-Dichloroethane	60	5	50	0	120	63.51	139.49				
1,1,1-Trichloroethane	61.7	5	50	0	123	64.51	139.49				
1,1-Dichloropropene	57.6	5	50	0	115	67.51	134.49				
Carbon tetrachloride	64.8	5	50	0	130	55.51	146.49				
Benzene	52.9	1.25	50	0	106	66.51	134.49				
Tertiary Amyl Methyl Ether (TAME)	58.9	5	50	0	118	63.51	135.49				
Dibromomethane	56	5	50	0	112	69.51	132.49				
1,2-Dichloropropane	49.5	5	50	0	99.1	68.51	134.49				
Trichloroethene	51.4	5	50	0	103	67.51	138.49				
Bromodichloromethane	59.9	5	50	0	120	57.51	147.49				
4-Methyl-2-pentanone (MIBK)	109	12.5	125	0	87.0	48.51	140.49				
cis-1,3-Dichloropropene	50.5	5	50	0	101	60.51	130.49				
trans-1,3-Dichloropropene	52.2	5	50	0	104	61.51	131.49				
1,1,2-Trichloroethane	53.7	5	50	0	107	69.51	131.49				
Toluene	42.8	1.25	50	0	85.6	37.51	130.49				
1,3-Dichloropropane	44.7	5	50	0	89.5	69.51	130.49				
2-Hexanone	443	25	500	0	88.5	24.51	157.49				
Dibromochloromethane	51.2	5	50	0	102	48.51	147.49				
1,2-Dibromoethane (EDB)	92.8	10	100	0	92.8	69.51	131.49				

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



Client: CH2M Hill
Project: DFSP Norwalk

TestCode: VOC_W

Sample ID: 1710053-02AMS	SampType: MS	TestCode: VOC_W	Units: µg/L
Client ID: GMW-38MS	Batch ID: A2382	TestNo: SW8260B	
Prep Date: 10/12/2017	RunNo: 1909	SeqNo: 46970	
Analysis Date: 10/12/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	45.2	5	50	0	90.3	62.51	134.49				
1,1,1,2-Tetrachloroethane	50.4	5	50	0	101	69.51	133.49				
Chlorobenzene	45.9	5	50	0	91.8	69.51	130.49				
Ethylbenzene	45.9	1.25	50	0	91.9	69.51	130.49				
m,p-Xylene	46.8	1.25	50	0	93.7	64.51	139.49				
Bromoform	58.1	5	50	0	116	59.51	144.49				
Xylenes, Total	94.3	1.25	100	0	94.3	69.51	130.49				
Styrene	50.1	5	50	0	100	52.51	144.49				
o-Xylene	47.4	1.25	50	0	94.8	68.51	130.49				
1,1,2,2-Tetrachloroethane	49.6	5	50	0	99.2	66.51	134.49				
1,2,3-Trichloropropane	107	10	100	0	107	69.51	130.49				
Isopropylbenzene	40.4	5	50	0	80.7	63.51	136.49				
Bromobenzene	42	5	50	0	84.0	68.51	130.49				
n-Propylbenzene	40.7	5	50	0	81.4	64.51	132.49				
4-Chlorotoluene	40.6	5	50	0	81.1	68.51	132.49				
2-Chlorotoluene	41.4	5	50	0	82.9	68.51	130.49				
1,3,5-Trimethylbenzene	41.9	5	50	0	83.9	63.51	135.49				
tert-Butylbenzene	41.3	5	50	0	82.6	62.51	139.49				
1,2,4-Trimethylbenzene	42.4	5	50	0	84.9	61.51	135.49				
sec-Butylbenzene	41.1	5	50	0	82.2	67.51	132.49				
1,3-Dichlorobenzene	42.6	5	50	0	85.3	69.51	130.49				
1,4-Dichlorobenzene	42	5	50	0	84.1	69.51	130.49				
4-Isopropyltoluene	42.3	5	50	0	84.5	39.51	161.49				
1,2-Dichlorobenzene	43.1	5	50	0	86.2	69.51	130.49				
n-Butylbenzene	41.9	5	50	0	83.8	57.51	135.49				
1,2-Dibromo-3-chloropropane (DBCP)	286	15	250	0	115	62.51	131.49				
1,2,4-Trichlorobenzene	43.6	10	50	0	87.2	56.51	134.49				
Naphthalene	42.3	10	50	0	84.5	30.51	157.49				
1,2,3-Trichlorobenzene	46.3	10	50	0	92.5	51.51	138.49				
Surr: 1,2-Dichloroethane-d4	67.5		50		135	69.51	130.49				S
Surr: Toluene-d8	44.1		50		88.1	69.51	130.49				
Surr: 4-Bromofluorobenzene	45.2		50		90.4	69.51	130.49				

Sample ID: MB-2383	SampType: MBLK	TestCode: VOC_W	Units: µg/L
Client ID: PBW	Batch ID: A2383	TestNo: SW8260B	
Prep Date: 10/12/2017	RunNo: 1906	SeqNo: 46847	
Analysis Date: 10/12/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1710053
 16-Oct-17

Client: CH2M Hill
Project: DFSP Norwalk

TestCode: VOC_W

Sample ID: MB-2383	SampType: MBLK	TestCode: VOC_W	Units: µg/L
Client ID: PBW	Batch ID: A2383	TestNo: SW8260B	
Prep Date: 10/12/2017	RunNo: 1906	SeqNo: 46847	
Analysis Date: 10/12/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	1									
Chloromethane	ND	2									
Vinyl chloride	ND	1									
Chloroethane	ND	1									
Bromomethane	ND	2									
Trichlorofluoromethane	ND	1									
Acetone	ND	10									
1,1-Dichloroethene	ND	1									
Tertiary Butyl Alcohol (TBA)	ND	10									
Dichloromethane	ND	2									
Freon-113	ND	1									
Carbon disulfide	ND	2.5									
trans-1,2-Dichloroethene	ND	1									
Methyl tert-butyl ether (MTBE)	ND	0.25									
1,1-Dichloroethane	ND	1									
Vinyl acetate	ND	50									
2-Butanone (MEK)	ND	10									
Di-isopropyl Ether (DIPE)	ND	1									
cis-1,2-Dichloroethene	ND	1									
Bromochloromethane	ND	1									
Chloroform	ND	1									
Ethyl Tertiary Butyl Ether (ETBE)	ND	1									
2,2-Dichloropropane	ND	1									
1,2-Dichloroethane	ND	1									
1,1,1-Trichloroethane	ND	1									
1,1-Dichloropropene	ND	1									
Carbon tetrachloride	ND	1									
Benzene	ND	0.25									
Tertiary Amyl Methyl Ether (TAME)	ND	1									
Dibromomethane	ND	1									
1,2-Dichloropropane	ND	1									
Trichloroethene	ND	1									
Bromodichloromethane	ND	1									
4-Methyl-2-pentanone (MIBK)	ND	2.5									
cis-1,3-Dichloropropene	ND	1									
trans-1,3-Dichloropropene	ND	1									
1,1,2-Trichloroethane	ND	1									
Toluene	ND	0.25									
1,3-Dichloropropane	ND	1									
2-Hexanone	ND	5									

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



Client: CH2M Hill
Project: DFSP Norwalk

TestCode: VOC_W

Sample ID: MB-2383	SampType: MBLK	TestCode: VOC_W	Units: µg/L
Client ID: PBW	Batch ID: A2383	TestNo: SW8260B	
Prep Date: 10/12/2017	RunNo: 1906	SeqNo: 46847	
Analysis Date: 10/12/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloromethane	ND	1									
1,2-Dibromoethane (EDB)	ND	2									
Tetrachloroethene	ND	1									
1,1,1,2-Tetrachloroethane	ND	1									
Chlorobenzene	ND	1									
Ethylbenzene	ND	0.25									
m,p-Xylene	ND	0.25									
Bromoform	ND	1									
Xylenes, Total	ND	0.25									
Styrene	ND	1									
o-Xylene	ND	0.25									
1,1,2,2-Tetrachloroethane	ND	1									
1,2,3-Trichloropropane	ND	2									
Isopropylbenzene	ND	1									
Bromobenzene	ND	1									
n-Propylbenzene	ND	1									
4-Chlorotoluene	ND	1									
2-Chlorotoluene	ND	1									
1,3,5-Trimethylbenzene	ND	1									
tert-Butylbenzene	ND	1									
1,2,4-Trimethylbenzene	ND	1									
sec-Butylbenzene	ND	1									
1,3-Dichlorobenzene	ND	1									
1,4-Dichlorobenzene	ND	1									
4-Isopropyltoluene	ND	1									
1,2-Dichlorobenzene	ND	1									
n-Butylbenzene	ND	1									
1,2-Dibromo-3-chloropropane (DBCP)	ND	3									
1,2,4-Trichlorobenzene	ND	2									
Naphthalene	ND	2									
1,2,3-Trichlorobenzene	ND	2									
Surr: 1,2-Dichloroethane-d4	9.9		10		98.6	69.51	130.49				
Surr: Toluene-d8	11		10		108	69.51	130.49				
Surr: 4-Bromofluorobenzene	11		10		110	69.51	130.49				

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1710053

16-Oct-17

Client: CH2M Hill
Project: DFSP Norwalk

TestCode: VOC_W

Sample ID: LCS-2383	SampType: LCS	TestCode: VOC_W	Units: µg/L
Client ID: LCSW	Batch ID: A2383	TestNo: SW8260B	
Prep Date: 10/12/2017	RunNo: 1906	SeqNo: 46846	
Analysis Date: 10/12/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	12.3	1	10	0	123	68.51	130.49				
Chloromethane	11	2	10	0	110	39.51	145.49				
Vinyl chloride	9.51	1	10	0	95.1	41.51	157.49				
Chloroethane	16.7	1	10	0	167	69.51	130.49				S
Bromomethane	10.3	2	10	0	103	13.51	162.49				
Trichlorofluoromethane	10.2	1	10	0	102	45.51	154.49				
Acetone	172	10	200	0	86.1	21.51	188.49				
1,1-Dichloroethene	8.77	1	10	0	87.7	69.51	130.49				
Tertiary Butyl Alcohol (TBA)	81.5	10	100	0	81.5	69.51	130.49				
Dichloromethane	8.55	2	10	0	85.5	65.51	135.49				
Freon-113	10.7	1	10	0	107	69.51	131.49				
trans-1,2-Dichloroethene	9.21	1	10	0	92.1	69.51	131.49				
Methyl tert-butyl ether (MTBE)	8.41	0.25	10	0	84.1	68.51	134.49				
1,1-Dichloroethane	9	1	10	0	90.0	69.51	130.49				
2-Butanone (MEK)	146	10	200	0	73.0	25.51	183.49				
Di-isopropyl Ether (DIPE)	8.17	1	10	0	81.7	48.51	147.49				
cis-1,2-Dichloroethene	8.37	1	10	0	83.7	69.51	130.49				
Bromochloromethane	9.38	1	10	0	93.8	57.51	147.49				
Chloroform	8.31	1	10	0	83.1	39.51	145.49				
Ethyl Tertiary Butyl Ether (ETBE)	8.76	1	10	0	87.6	69.51	130.49				
2,2-Dichloropropane	11.4	1	10	0	114	25.51	183.49				
1,2-Dichloroethane	8.91	1	10	0	89.1	69.51	130.49				
1,1,1-Trichloroethane	9.91	1	10	0	99.1	69.51	130.49				
1,1-Dichloropropene	8.39	1	10	0	83.9	53.51	135.49				
Carbon tetrachloride	9.18	1	10	0	91.8	69.51	130.49				
Benzene	9.11	0.25	10	0	91.1	69.51	130.49				
Tertiary Amyl Methyl Ether (TAME)	8.94	1	10	0	89.4	47.51	148.49				
Dibromomethane	8.81	1	10	0	88.1	31.51	145.49				
1,2-Dichloropropane	9.26	1	10	0	92.6	69.51	134.49				
Trichloroethene	8.45	1	10	0	84.5	45.51	154.49				
Bromodichloromethane	8.22	1	10	0	82.2	59.51	144.49				
4-Methyl-2-pentanone (MIBK)	18.6	2.5	25	0	74.3	21.51	188.49				
cis-1,3-Dichloropropene	8.45	1	10	0	84.5	68.51	133.49				
trans-1,3-Dichloropropene	10.3	1	10	0	103	69.51	131.49				
1,1,2-Trichloroethane	9.62	1	10	0	96.2	69.51	130.49				
Toluene	8.97	0.25	10	0	89.7	69.51	132.49				
1,3-Dichloropropane	10.1	1	10	0	101	69.51	130.49				
2-Hexanone	87.7	5	100	0	87.7	69.51	132.49				
Dibromochloromethane	9.94	1	10	0	99.4	69.51	130.49				
1,2-Dibromoethane (EDB)	20.5	2	20	0	102	69.51	131.49				

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1710053

16-Oct-17

Client: CH2M Hill
Project: DFSP Norwalk

TestCode: VOC_W

Sample ID: LCS-2383	SampType: LCS	TestCode: VOC_W	Units: µg/L
Client ID: LCSW	Batch ID: A2383	TestNo: SW8260B	
Prep Date: 10/12/2017	RunNo: 1906	SeqNo: 46846	
Analysis Date: 10/12/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	8.12	1	10	0	81.2	69.51	130.49				
1,1,1,2-Tetrachloroethane	10.7	1	10	0	107	69.51	135.49				
Chlorobenzene	9.31	1	10	0	93.1	37.51	156.49				
Ethylbenzene	10.3	0.25	10	0	102	69.51	136.49				
m,p-Xylene	9.85	0.25	10	0	98.5	62.51	137.49				
Bromoform	8.92	1	10	0	89.2	13.51	162.49				
Xylenes, Total	18.4	0.25	20	0	92.2	49.51	200.49				
Styrene	8.26	1	10	0	82.6	54.51	144.49				
o-Xylene	8.59	0.25	10	0	85.9	69.51	132.49				
1,1,2,2-Tetrachloroethane	10.2	1	10	0	102	69.51	130.49				
1,2,3-Trichloropropane	20.4	2	20	0	102	61.51	131.49				
Isopropylbenzene	8.63	1	10	0	86.3	64.51	139.49				
Bromobenzene	9.35	1	10	0	93.5	69.51	133.49				
n-Propylbenzene	10.6	1	10	0	106	38.51	149.49				
4-Chlorotoluene	10.9	1	10	0	109	39.51	161.49				
2-Chlorotoluene	10.7	1	10	0	107	47.51	157.49				
1,3,5-Trimethylbenzene	10.9	1	10	0	109	69.51	130.49				
tert-Butylbenzene	10.6	1	10	0	106	62.51	139.49				
1,2,4-Trimethylbenzene	11.1	1	10	0	111	66.51	130.49				
sec-Butylbenzene	10.1	1	10	0	101	54.51	144.49				
1,3-Dichlorobenzene	10.5	1	10	0	105	69.51	130.49				
1,4-Dichlorobenzene	10.5	1	10	0	105	69.51	130.49				
4-Isopropyltoluene	10.5	1	10	0	105	58.51	140.49				
1,2-Dichlorobenzene	9.89	1	10	0	98.9	69.51	133.49				
n-Butylbenzene	9.98	1	10	0	99.8	68.51	134.49				
1,2-Dibromo-3-chloropropane (DBCP)	46.7	3	50	0	93.5	69.51	131.49				
1,2,4-Trichlorobenzene	9.17	2	10	0	91.7	69.51	133.49				
Naphthalene	8.84	2	10	0	88.4	69.51	130.49				
1,2,3-Trichlorobenzene	8.98	2	10	0	89.8	69.51	130.49				
Surr: 1,2-Dichloroethane-d4	9.33		10		93.3	69.51	130.49				
Surr: Toluene-d8	10.8		10		108	69.51	130.49				
Surr: 4-Bromofluorobenzene	10.8		10		108	69.51	130.49				

Sample ID: 1710060-02AMSD	SampType: MSD	TestCode: VOC_W	Units: µg/L
Client ID: BatchQC	Batch ID: A2383	TestNo: SW8260B	
Prep Date: 10/12/2017	RunNo: 1906	SeqNo: 46845	
Analysis Date: 10/12/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



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Sparks, Nevada 89431

TEL: (775) 355-1044 FAX: (775) 355-0406
Website: www.alpha-analytical.com

QC SUMMARY REPORT

WO#: 1710053

16-Oct-17

Client: CH2M Hill
Project: DFSP Norwalk

TestCode: VOC_W

Sample ID: 1710060-02AMSD	SampType: MSD	TestCode: VOC_W	Units: µg/L
Client ID: BatchQC	Batch ID: A2383	TestNo: SW8260B	
Prep Date: 10/12/2017	RunNo: 1906	SeqNo: 46845	
Analysis Date: 10/12/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	30.1	5	50	0	60.2	11.51	150.49	31.5	4.4	30	
Chloromethane	28.9	10	50	0	57.7	25.51	146.49	24.8	15	30	
Vinyl chloride	31.8	5	50	0	63.6	45.51	142.49	30.9	2.9	30	
Chloroethane	65.8	5	50	0	132	24.51	164.49	68.9	4.6	30	
Bromomethane	16.9	10	50	0	33.7	9.51	172.49	9.25	58	30	R
Trichlorofluoromethane	44	5	50	0	88.1	31.51	164.49	42.9	2.7	30	
Acetone	916	50	1000	0	91.6	9.51	188.49	839	8.8	30	
1,1-Dichloroethene	38.4	5	50	0	76.7	61.51	133.49	36.3	5.6	30	
Tertiary Butyl Alcohol (TBA)	486	50	500	0	97.2	43.51	155.49	429	12	30	
Dichloromethane	42	10	50	0	83.9	68.51	130.49	39.6	5.7	30	
Freon-113	43.2	5	50	0	86.4	55.51	144.49	41.7	3.6	30	
trans-1,2-Dichloroethene	43.5	5	50	0	86.9	66.51	131.49	40.7	6.6	30	
Methyl tert-butyl ether (MTBE)	43.2	1.25	50	0	86.5	55.51	140.49	40.4	6.8	30	
1,1-Dichloroethane	46.3	5	50	0	92.7	66.51	130.49	43.4	6.5	30	
2-Butanone (MEK)	781	50	1000	0	78.1	25.51	183.49	727	7.2	30	
Di-isopropyl Ether (DIPE)	44.1	5	50	0	88.2	58.51	138.49	41.6	6	30	
cis-1,2-Dichloroethene	41.3	5	50	0	82.6	69.51	130.49	38.9	5.9	30	
Bromochloromethane	45.4	5	50	0	90.8	69.51	134.49	41.7	8.6	30	
Chloroform	43.7	5	50	0	87.3	68.51	130.49	41.4	5.2	30	
Ethyl Tertiary Butyl Ether (ETBE)	46.2	5	50	0	92.4	61.51	135.49	43.1	6.8	30	
2,2-Dichloropropane	43.8	5	50	0	87.7	43.51	149.49	42.3	3.6	30	
1,2-Dichloroethane	49.3	5	50	0	98.6	63.51	139.49	47	4.8	30	
1,1,1-Trichloroethane	50.5	5	50	0	101	64.51	139.49	48.1	4.9	30	
1,1-Dichloropropene	41.8	5	50	0	83.5	67.51	134.49	39.5	5.5	30	
Carbon tetrachloride	45.7	5	50	0	91.4	55.51	146.49	43	6	30	
Benzene	45.3	1.25	50	0	90.6	66.51	134.49	42.8	5.7	30	
Tertiary Amyl Methyl Ether (TAME)	46.4	5	50	0	92.9	63.51	135.49	43.5	6.6	30	
Dibromomethane	45.7	5	50	0	91.4	69.51	132.49	42.6	7.1	30	
1,2-Dichloropropane	49.5	5	50	0	98.9	68.51	134.49	46.2	6.8	30	
Trichloroethene	41	5	50	0	82.0	67.51	138.49	38.6	6.1	30	
Bromodichloromethane	43.9	5	50	0	87.7	57.51	147.49	41.6	5.3	30	
4-Methyl-2-pentanone (MIBK)	104	12.5	125	0	82.8	48.51	140.49	95.5	8.1	30	
cis-1,3-Dichloropropene	40.4	5	50	0	80.8	60.51	130.49	37.9	6.3	30	
trans-1,3-Dichloropropene	51.2	5	50	0	102	61.51	131.49	47	8.4	30	
1,1,2-Trichloroethane	50.5	5	50	0	101	69.51	131.49	46.3	8.7	30	
Toluene	45.3	1.25	50	0	90.5	37.51	130.49	42.6	6.1	30	
1,3-Dichloropropane	52.2	5	50	0	104	69.51	130.49	48	8.4	30	
2-Hexanone	493	25	500	0	98.6	24.51	157.49	449	9.2	30	
Dibromochloromethane	50.4	5	50	0	101	48.51	147.49	46.6	7.7	30	
1,2-Dibromoethane (EDB)	104	10	100	0	104	69.51	131.49	94.3	9.8	30	

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



QC SUMMARY REPORT

WO#: 1710053

16-Oct-17

Client: CH2M Hill
Project: DFSP Norwalk

TestCode: VOC_W

Sample ID: 1710060-02AMSD	SampType: MSD		TestCode: VOC_W	Units: µg/L							
Client ID: BatchQC	Batch ID: A2383		TestNo: SW8260B								
Prep Date: 10/12/2017	RunNo: 1906		SeqNo: 46845								
Analysis Date: 10/12/2017											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	37.9	5	50	0	75.8	62.51	134.49	35.2	7.3	30	
1,1,1,2-Tetrachloroethane	54.4	5	50	0	109	69.51	133.49	50.4	7.7	30	
Chlorobenzene	47.8	5	50	0	95.6	69.51	130.49	44.1	8.1	30	
Ethylbenzene	52.6	1.25	50	0	105	69.51	130.49	48.5	8.1	30	
m,p-Xylene	50.4	1.25	50	0	101	64.51	139.49	46.5	7.9	30	
Bromoform	44.5	5	50	0	89.1	59.51	144.49	40.4	9.7	30	
Xylenes, Total	94.1	1.25	100	0	94.1	69.51	130.49	86.8	8.2	30	
Styrene	42.1	5	50	0	84.2	52.51	144.49	38.6	8.6	30	
o-Xylene	43.8	1.25	50	0	87.5	68.51	130.49	40.2	8.4	30	
1,1,2,2-Tetrachloroethane	56.5	5	50	0	113	66.51	134.49	52.3	7.8	30	
1,2,3-Trichloropropane	115	10	100	0	115	69.51	130.49	106	8.3	30	
Isopropylbenzene	44.7	5	50	0	89.3	63.51	136.49	40.7	9.3	30	
Bromobenzene	46.6	5	50	0	93.2	68.51	130.49	42.2	10	30	
n-Propylbenzene	56.5	5	50	0	113	64.51	132.49	51.3	9.7	30	
4-Chlorotoluene	57.8	5	50	0	116	68.51	132.49	52.3	10	30	
2-Chlorotoluene	57	5	50	0	114	68.51	130.49	52.4	8.4	30	
1,3,5-Trimethylbenzene	60.4	5	50	0	121	63.51	135.49	54.6	10	30	
tert-Butylbenzene	58.9	5	50	0	118	62.51	139.49	53.4	9.7	30	
1,2,4-Trimethylbenzene	61.2	5	50	0	122	61.51	135.49	55.5	9.9	30	
sec-Butylbenzene	56.1	5	50	0	112	67.51	132.49	49.9	12	30	
1,3-Dichlorobenzene	56	5	50	0	112	69.51	130.49	49.6	12	30	
1,4-Dichlorobenzene	54.8	5	50	0	110	69.51	130.49	49.4	10	30	
4-Isopropyltoluene	58.7	5	50	0	117	39.51	161.49	52.5	11	30	
1,2-Dichlorobenzene	53.1	5	50	0	106	69.51	130.49	47.6	11	30	
n-Butylbenzene	56.7	5	50	0	113	57.51	135.49	49.5	13	30	
1,2-Dibromo-3-chloropropane (DBCP)	264	15	250	0	106	62.51	131.49	230	14	30	
1,2,4-Trichlorobenzene	53.9	10	50	0	108	56.51	134.49	40.1	29	30	
Naphthalene	59.3	10	50	0	119	30.51	157.49	42.2	34	30	R
1,2,3-Trichlorobenzene	62.2	10	50	0	124	51.51	138.49	35.3	55	30	R
Surr: 1,2-Dichloroethane-d4	50.8		50		102	69.51	130.49	50.9	0	0	
Surr: Toluene-d8	52.5		50		105	69.51	130.49	51.9	0	0	
Surr: 4-Bromofluorobenzene	56.5		50		113	69.51	130.49	56.5	0	0	

Sample ID: 1710060-02AMS	SampType: MS		TestCode: VOC_W	Units: µg/L							
Client ID: BatchQC	Batch ID: A2383		TestNo: SW8260B								
Prep Date: 10/12/2017	RunNo: 1906		SeqNo: 46844								
Analysis Date: 10/12/2017											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1710053

16-Oct-17

Client: CH2M Hill
Project: DFSP Norwalk

TestCode: VOC_W

Sample ID: 1710060-02AMS	SampType: MS	TestCode: VOC_W	Units: µg/L
Client ID: BatchQC	Batch ID: A2383	TestNo: SW8260B	
Prep Date: 10/12/2017	RunNo: 1906	SeqNo: 46844	
Analysis Date: 10/12/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	31.5	5	50	0	63.0	11.51	150.49				
Chloromethane	24.8	10	50	0	49.6	25.51	146.49				
Vinyl chloride	30.9	5	50	0	61.8	45.51	142.49				
Chloroethane	68.9	5	50	0	138	24.51	164.49				
Bromomethane	9.25	10	50	0	18.5	9.51	172.49				
Trichlorofluoromethane	42.9	5	50	0	85.7	31.51	164.49				
Acetone	839	50	1000	0	83.9	9.51	188.49				
1,1-Dichloroethene	36.3	5	50	0	72.5	61.51	133.49				
Tertiary Butyl Alcohol (TBA)	429	50	500	0	85.9	43.51	155.49				
Dichloromethane	39.6	10	50	0	79.3	68.51	130.49				
Freon-113	41.7	5	50	0	83.4	55.51	144.49				
trans-1,2-Dichloroethene	40.7	5	50	0	81.4	66.51	131.49				
Methyl tert-butyl ether (MTBE)	40.4	1.25	50	0	80.8	55.51	140.49				
1,1-Dichloroethane	43.4	5	50	0	86.8	66.51	130.49				
2-Butanone (MEK)	727	50	1000	0	72.7	25.51	183.49				
Di-isopropyl Ether (DIPE)	41.6	5	50	0	83.1	58.51	138.49				
cis-1,2-Dichloroethene	38.9	5	50	0	77.8	69.51	130.49				
Bromochloromethane	41.7	5	50	0	83.3	69.51	134.49				
Chloroform	41.4	5	50	0	82.9	68.51	130.49				
Ethyl Tertiary Butyl Ether (ETBE)	43.1	5	50	0	86.3	61.51	135.49				
2,2-Dichloropropane	42.3	5	50	0	84.5	43.51	149.49				
1,2-Dichloroethane	47	5	50	0	94.0	63.51	139.49				
1,1,1-Trichloroethane	48.1	5	50	0	96.2	64.51	139.49				
1,1-Dichloropropene	39.5	5	50	0	79.0	67.51	134.49				
Carbon tetrachloride	43	5	50	0	86.1	55.51	146.49				
Benzene	42.8	1.25	50	0	85.6	66.51	134.49				
Tertiary Amyl Methyl Ether (TAME)	43.5	5	50	0	87.0	63.51	135.49				
Dibromomethane	42.6	5	50	0	85.2	69.51	132.49				
1,2-Dichloropropane	46.2	5	50	0	92.4	68.51	134.49				
Trichloroethene	38.6	5	50	0	77.2	67.51	138.49				
Bromodichloromethane	41.6	5	50	0	83.2	57.51	147.49				
4-Methyl-2-pentanone (MIBK)	95.5	12.5	125	0	76.4	48.51	140.49				
cis-1,3-Dichloropropene	37.9	5	50	0	75.8	60.51	130.49				
trans-1,3-Dichloropropene	47	5	50	0	94.1	61.51	131.49				
1,1,2-Trichloroethane	46.3	5	50	0	92.6	69.51	131.49				
Toluene	42.6	1.25	50	0	85.2	37.51	130.49				
1,3-Dichloropropane	48	5	50	0	96.0	69.51	130.49				
2-Hexanone	449	25	500	0	89.9	24.51	157.49				
Dibromochloromethane	46.6	5	50	0	93.3	48.51	147.49				
1,2-Dibromoethane (EDB)	94.3	10	100	0	94.3	69.51	131.49				

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1710053

16-Oct-17

Client: CH2M Hill
Project: DFSP Norwalk

TestCode: VOC_W

Sample ID: 1710060-02AMS	SampType: MS	TestCode: VOC_W	Units: µg/L
Client ID: BatchQC	Batch ID: A2383	TestNo: SW8260B	
Prep Date: 10/12/2017	RunNo: 1906	SeqNo: 46844	
Analysis Date: 10/12/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	35.2	5	50	0	70.5	62.51	134.49				
1,1,1,2-Tetrachloroethane	50.4	5	50	0	101	69.51	133.49				
Chlorobenzene	44.1	5	50	0	88.2	69.51	130.49				
Ethylbenzene	48.5	1.25	50	0	97.0	69.51	130.49				
m,p-Xylene	46.5	1.25	50	0	93.0	64.51	139.49				
Bromoform	40.4	5	50	0	80.8	59.51	144.49				
Xylenes, Total	86.8	1.25	100	0	86.8	69.51	130.49				
Styrene	38.6	5	50	0	77.3	52.51	144.49				
o-Xylene	40.2	1.25	50	0	80.5	68.51	130.49				
1,1,2,2-Tetrachloroethane	52.3	5	50	0	105	66.51	134.49				
1,2,3-Trichloropropane	106	10	100	0	106	69.51	130.49				
Isopropylbenzene	40.7	5	50	0	81.4	63.51	136.49				
Bromobenzene	42.2	5	50	0	84.4	68.51	130.49				
n-Propylbenzene	51.3	5	50	0	102	64.51	132.49				
4-Chlorotoluene	52.3	5	50	0	105	68.51	132.49				
2-Chlorotoluene	52.4	5	50	0	105	68.51	130.49				
1,3,5-Trimethylbenzene	54.6	5	50	0	109	63.51	135.49				
tert-Butylbenzene	53.4	5	50	0	107	62.51	139.49				
1,2,4-Trimethylbenzene	55.5	5	50	0	111	61.51	135.49				
sec-Butylbenzene	49.9	5	50	0	99.9	67.51	132.49				
1,3-Dichlorobenzene	49.6	5	50	0	99.2	69.51	130.49				
1,4-Dichlorobenzene	49.4	5	50	0	98.8	69.51	130.49				
4-Isopropyltoluene	52.5	5	50	0	105	39.51	161.49				
1,2-Dichlorobenzene	47.6	5	50	0	95.1	69.51	130.49				
n-Butylbenzene	49.5	5	50	0	99.0	57.51	135.49				
1,2-Dibromo-3-chloropropane (DBCP)	230	15	250	0	91.9	62.51	131.49				
1,2,4-Trichlorobenzene	40.1	10	50	0	80.2	56.51	134.49				
Naphthalene	42.2	10	50	0	84.4	30.51	157.49				
1,2,3-Trichlorobenzene	35.3	10	50	0	70.5	51.51	138.49				
Surr: 1,2-Dichloroethane-d4	50.9		50		102	69.51	130.49				
Surr: Toluene-d8	51.9		50		104	69.51	130.49				
Surr: 4-Bromofluorobenzene	56.5		50		113	69.51	130.49				

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



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Definition Only

WO#: 1710053

Date:

Definitions:

ND = Not Detected

C = Reported concentration includes additional compounds uncharacteristic of common fuels and lubricants.

D = Reporting Limits were increased due to high concentrations of non-target analytes.

H = Reporting Limits were increased due to the hydrocarbons present in the sample.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

K = DRO concentration may include contributions from lighter-end hydrocarbons (e.g. gasoline) that elute in the DRO range.

L = DRO concentration may include contributions from heavier-end hydrocarbons (e.g. motor oil) that elute in the DRO range.

O = Reporting Limits were increased due to sample foaming.

V = Reporting Limits were increased due to high concentrations of target analytes.

X = Reporting Limits were increased due to sample matrix interferences.

Z = DRO concentration may include contributions from lighter-end (e.g. gasoline) and heavier-end (e.g. motor oil) hydrocarbons that elute in the DRO range.

S50 = The analysis of the sample required a dilution such that the surrogate concentration was diluted below the laboratory acceptance criteria. The laboratory control sample was acceptable.

S51 = Surrogate recovery could not be determined due to the presence of co-eluting hydrocarbons.

S53 = Surrogate recovery was below laboratory acceptance limits. Probable matrix effect.

S54 = Surrogate recovery was below laboratory acceptance limits.

S55 = Surrogate recovery was above laboratory acceptance limits.



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Definition Only

WO#: 1710053

Date:

Definitions:

Report CC's Benny Pataray
 Daniel Jablonski
 Eric Davis
 Krystle Remmen
 Vladimir Carino

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Ave, #21 Sparks, Nevada 89431
 TEL: (775) 355-1044 FAX: (775) 355-0406

CA

WorkOrder: CHH1710053
 Report Due By: 16-Oct-17
 EDD Required: YES

Report Attention: Daniel Jablonski

Client:

CH2M Hill
 1000 Wilshire Boulevard
 Los Angeles, CA 90017

TEL: 2132288271
 FAX: 7144242135
 ProjectNo: DFSP Norwalk

Date Received: 05-Oct-17

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles			Requested Tests						Sample Remarks		
				Alpha	Sub	TAT	TPH/E_W	TPH/P_W	VOC_W						
CHH1710053-01	TB-1	AQ	10/3/2017 7:00:00 AM	2	0	7			A - Partial						Reno TB 08/01/17
CHH1710053-02	GMW-38	AQ	10/3/2017 4:28:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710053-03	MW-19 (Mid)	AQ	10/3/2017 3:13:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710053-04	MW-21 (Mid)	AQ	10/3/2017 3:43:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710053-05	PW-3	AQ	10/3/2017 2:19:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710053-06	WCW-2	AQ	10/3/2017 9:24:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710053-07	WCW-3	AQ	10/3/2017 10:16:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710053-08	WCW-4	AQ	10/3/2017 11:19:00 AM	5	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710053-09	WCW-12	AQ	10/3/2017 12:03:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710053-10	WCW-13	AQ	10/3/2017 12:46:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						

Comments: Samples kept cold and secure until login 10/06/2017. Received one voas broken to each sample -08, & -17. Samples -15 through -24 are dated 10/03/17. logged in per voas. Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values.

Signature	Print Name	Company	Date/Time
<i>Elisabet Hernandez</i>	Elisabet Hernandez	Alpha Analytical, Inc.	10/05/17 09:38

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles			Requested Tests						Sample Remarks	
				Alpha	Sub	TAT	TPH/E_W	TPH/P_W	VOC_W					
CHH1710053-11	WCW-14	AQ	10/3/2017 1:28:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710053-12	DUP-1	AQ	10/3/2017	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710053-13	EB-1	AQ	10/3/2017 4:45:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710053-14	EXP-2	AQ	10/3/2017 2:20:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710053-15	EXP-4	AQ	10/3/2017 9:42:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710053-16	EXP-5	AQ	10/3/2017 10:38:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710053-17	WCW-5	AQ	10/3/2017 11:30:00 AM	5	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710053-18	WCW-6	AQ	10/3/2017 12:04:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710053-19	WCW-8	AQ	10/3/2017 1:10:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710053-20	MW-6	AQ	10/3/2017 2:06:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710053-21	MW-7	AQ	10/3/2017 2:52:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710053-22	MW-20 (Mid)	AQ	10/3/2017 3:45:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710053-23	GMW-37	AQ	10/3/2017 4:31:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710053-24	EB-2	AQ	10/3/2017 4:45:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					

Comments: Samples kept cold and secure until login 10/06/2017. Received one voas broken to each sample -08, & -17. Samples -15 through - 24 are dated 10/03/17. logged in per voas. Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values.

Signature	Print Name	Company	Date/Time
Elisabet Hernandez	Elisabet Hernandez	Alpha Analytical, Inc.	10/06/17 09:38

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB

Alpha Analytical COC 1 of 3

Billing Information:
 Kinder Morgan
 1100 Town and Country Rd.
 Orange CA 95112

Kinder Morgan Norwalk
 Report to:
 Dan Jablonski
 CH2MHILL
 1000 Wilshire Blvd 21st floor
 Los Angeles, CA 90017

CHAIN OF CUSTODY

CLIENT Kinder Morgan

SITE DFSP Norwalk

15306 Norwalk Blvd, Norwalk

SAMPLE I.D.	DATE	TIME	MATRIX AQ= Water	CONTAINERS			TPHg, TPHd (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)							ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
				#	Preservation	Type												
TB-1	10/3/17	0700	AQ	2	HCl	VOA		X										CHH1710053-01
EMW-38	10/3/17	1628	AQ	6	HCl	VOA	X	X										02
MW-19 (min)	10/3/17	1513	AQ	6	HCl	VOA	X	X										03
MW-21 (min)	10/3/17	1543	AQ	6	HCl	VOA	X	X										04
PW-3	10/3/17	1419	AQ	6	HCl	VOA	X	X										05
WCCW-2	10/3/17	0924	AQ	6	HCl	VOA	X	X										06
WCCW-3	10/3/17	1016	AQ	6	HCl	VOA	X	X										07
WCCW-4	10/3/17	1119	AQ	6	HCl	VOA	X	X										08
WCCW-12	10/3/17	1203	AQ	6	HCl	VOA	X	X										09
WCCW-13	10/3/17	1246	AQ	6	HCl	VOA	X	X										10

SAMPLING COMPLETED DATE 10/3/17 TIME 1645 SAMPLING PERFORMED BY Jimmy Rice

RESULTS NEEDED NO LATER THAN Standard

RELEASED BY TIME 1730 RECEIVED BY DATE 10/3/17 TIME 1730

RELEASED BY TIME 1100 RECEIVED BY DATE 10-4-17 TIME 1100

RELEASED BY TIME 1130 RECEIVED BY DATE 10/04/17 TIME 09:38

SHIPPED VIA TIME SENT COOLER #

BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB

Alpha Analytical COC 2 of 3

Billing Information:
 Kinder Morgan
 1100 Town and Country Rd.
 Orange CA 95112

Kinder Morgan Norwalk
 Report to:
 Dan Jablonski
 CH2MHILL
 1000 Wilshire Blvd 21st floor
 Los Angeles, CA 90017

CHAIN OF CUSTODY

CLIENT Kinder Morgan

SITE DFSP Norwalk

15306 Norwalk Blvd, Norwalk

SAMPLE I.D.	DATE	TIME	MATRIX AQ= Water	CONTAINERS			TPHg, TPHd (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)							ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
				#	Preservation	Type												
WCS-14	10/3/17	1328	AQ	6	Hel	VOA	X	X										CHH1710053-11
DUP-1	10/3/17	—	AQ	6	Hel	VOA	X	X										↓ 12
FB-1	10/3/17	1645	AQ	6	Hel	VOA	X	X										13
EXP-2	10/3/17	1420	AQ	6	HCL	VOA	X	X										14

SAMPLING COMPLETED DATE 10/3/17 TIME 1645 SAMPLING PERFORMED BY *Danny Dece* RESULTS NEEDED NO LATER THAN Standard

RELEASED BY *[Signature]* TIME 1730 RECEIVED BY *Nicole* DATE 10/3/17 TIME 1730

RELEASED BY *Nicole* TIME 1100 RECEIVED BY *[Signature]* DATE 10/4/17 TIME 1100

RELEASED BY *[Signature]* TIME 1130 RECEIVED BY *Elicia Hernandez* DATE 10/06/17 TIME 09:38

SHIPPED VIA TIME SENT COOLER #

BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB

Alpha Analytical COC 3 of 3

Billing Information:
 Kinder Morgan
 1100 Town and Country Rd.
 Orange CA 95112

Kinder Morgan Norwalk
 Report to:
 Dan Jablonski
 CH2MHILL
 1000 Wilshire Blvd 21st floor
 Los Angeles, CA 90017

CHAIN OF CUSTODY

CLIENT Kinder Morgan

SITE DFSP Norwalk

15306 Norwalk Blvd, Norwalk

SAMPLE I.D.	DATE	TIME	MATRIX AQ= Water	CONTAINERS			TPHg, TPHd (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)							ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
				#	Preservation	Type												
EXP-4	9/3	0942	AQ	6	HCL	VOA'S	✓	✓										CHH1710053-11
EXP-5		1038					✓	✓										12
WCW-5		1130					✓	✓										13
WCW-6		1204					✓	✓										14
WCW-8		1310					✓	✓										15
MW-6		1406					✓	✓										16
MW-7		1452					✓	✓										17
MW-20(MID)		1545					✓	✓										18
GMW-37		1631					✓	✓										19
EB-2		1645					✓	✓										20

SAMPLING COMPLETED DATE 9/3/2017 TIME 1700 SAMPLING PERFORMED BY Patrice Ho RESULTS NEEDED NO LATER THAN Standard

RELEASED BY [Signature] TIME 1745 RECEIVED BY [Signature] DATE 10/3/17 TIME 1745

RELEASED BY [Signature] TIME 1100 RECEIVED BY [Signature] DATE 10/2/17 TIME 1100

RELEASED BY [Signature] TIME 1130 RECEIVED BY Edna Hernandez DATE 10/2/17 TIME 0938

SHIPPED VIA TIME SENT COOLER #



Alpha Analytical, Inc
255 Glendale Ave, #21
Sparks, Nevada 89431
TEL: (775) 355-1044 FAX: (775) 355-0406
Website: www.alpha-analytical.com

October 17, 2017

Eric Davis
CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
TEL: (213) 228-8271
FAX (714) 424-2135

RE: DSFP Norwalk

Dear Eric Davis:

Order No.: CHH1710060

There were no problems with the analytical events associated with this report unless noted.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink that reads "Roger Scholl". The signature is written in a cursive, flowing style.

Roger Scholl
Laboratory Director
255 Glendale Ave, #21
Sparks, Nevada 89431



Alpha Analytical, Inc.

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710060

Report Date: 10/17/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710060-01
Client Sample ID TB-2

Collection Date: 10/4/2017 8:00:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710060

Report Date: 10/17/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710060-01
Client Sample ID TB-2

Collection Date: 10/4/2017 8:00:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	108	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710060

Report Date: 10/17/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710060-02
Client Sample ID GMW-O-3

Collection Date: 10/4/2017 8:36:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/9/2017	TPH-E by EPA 8015C
Surr: Nonane	105	35-151		%Rec	10/9/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/12/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	99	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	109	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710060

Report Date: 10/17/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710060-02
Client Sample ID GMW-O-3

Collection Date: 10/4/2017 8:36:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	99	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	109	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710060

Report Date: 10/17/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710060-03
Client Sample ID GMW-O-2

Collection Date: 10/4/2017 9:40:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/9/2017	TPH-E by EPA 8015C
Surr: Nonane	109	35-151		%Rec	10/9/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/12/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	109	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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Analytical Report

WO#: CHH1710060

Report Date: 10/17/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710060-03
Client Sample ID GMW-O-2

Collection Date: 10/4/2017 9:40:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	109	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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Analytical Report

WO#: CHH1710060

Report Date: 10/17/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710060-04
Client Sample ID GMW-O-4

Collection Date: 10/4/2017 10:38:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/9/2017	TPH-E by EPA 8015C
Surr: Nonane	111	35-151		%Rec	10/9/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/12/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	108	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710060

Report Date: 10/17/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710060-04
Client Sample ID GMW-O-4

Collection Date: 10/4/2017 10:38:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	108	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710060

Report Date: 10/17/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710060-05
Client Sample ID GMW-O-5

Collection Date: 10/4/2017 11:23:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/9/2017	TPH-E by EPA 8015C
Surr: Nonane	107	35-151		%Rec	10/9/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/12/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	108	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B



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Analytical Report

WO#: CHH1710060

Report Date: 10/17/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710060-05
Client Sample ID GMW-O-5

Collection Date: 10/4/2017 11:23:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	108	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



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Analytical Report

WO#: CHH1710060

Report Date: 10/17/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710060-06
Client Sample ID GMW-O-17

Collection Date: 10/4/2017 12:05:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/9/2017	TPH-E by EPA 8015C
Surr: Nonane	107	35-151		%Rec	10/9/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/12/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	107	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B



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Analytical Report

WO#: CHH1710060

Report Date: 10/17/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710060-06
Client Sample ID GMW-O-17

Collection Date: 10/4/2017 12:05:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	107	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: **CHH1710060**

Report Date: **10/17/2017**

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710060-07
Client Sample ID EXP-1

Collection Date: 10/4/2017 11:30:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	0.22	0.050	C	mg/L	10/9/2017	TPH-E by EPA 8015C
Surr: Nonane	107	35-151		%Rec	10/9/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/12/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	108	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B



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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710060

Report Date: 10/17/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710060-07
Client Sample ID EXP-1

Collection Date: 10/4/2017 11:30:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	108	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: **CHH1710060**

Report Date: **10/17/2017**

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710060-08
Client Sample ID EXP-3

Collection Date: 10/4/2017 12:10:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	0.10	0.050	C	mg/L	10/9/2017	TPH-E by EPA 8015C
Surr: Nonane	121	35-151		%Rec	10/9/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/12/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	106	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710060

Report Date: 10/17/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710060-08
Client Sample ID EXP-3

Collection Date: 10/4/2017 12:10:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	106	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



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Analytical Report

WO#: CHH1710060

Report Date: 10/17/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710060-09
Client Sample ID GMW-13

Collection Date: 10/4/2017 1:13:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/9/2017	TPH-E by EPA 8015C
Surr: Nonane	110	35-151		%Rec	10/9/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/12/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	109	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B



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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710060

Report Date: 10/17/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710060-09
Client Sample ID GMW-13

Collection Date: 10/4/2017 1:13:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	109	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710060

Report Date: 10/17/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710060-10
Client Sample ID GMW-SF-7

Collection Date: 10/4/2017 2:00:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/9/2017	TPH-E by EPA 8015C
Surr: Nonane	105	35-151		%Rec	10/9/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/12/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	106	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710060

Report Date: 10/17/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710060-10
Client Sample ID GMW-SF-7

Collection Date: 10/4/2017 2:00:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	106	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



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Analytical Report

WO#: CHH1710060

Report Date: 10/17/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710060-11
Client Sample ID MW-8

Collection Date: 10/4/2017 2:38:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/9/2017	TPH-E by EPA 8015C
Surr: Nonane	112	35-151		%Rec	10/9/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/12/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	107	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B



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Analytical Report

WO#: CHH1710060

Report Date: 10/17/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710060-11
Client Sample ID MW-8

Collection Date: 10/4/2017 2:38:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	107	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710060

Report Date: 10/17/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710060-12
Client Sample ID MW-12

Collection Date: 10/4/2017 3:25:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/13/2017	TPH-E by EPA 8015C
Surr: Nonane	104	35-151		%Rec	10/13/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/12/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	108	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B



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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710060

Report Date: 10/17/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710060-12
Client Sample ID MW-12

Collection Date: 10/4/2017 3:25:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	108	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710060

Report Date: 10/17/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710060-13
Client Sample ID EB-3

Collection Date: 10/4/2017 3:35:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/9/2017	TPH-E by EPA 8015C
Surr: Nonane	107	35-151		%Rec	10/9/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/12/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	107	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B



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Analytical Report

WO#: CHH1710060

Report Date: 10/17/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710060-13
Client Sample ID EB-3

Collection Date: 10/4/2017 3:35:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	107	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



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Analytical Report

WO#: CHH1710060

Report Date: 10/17/2017

CLIENT: CH2M Hill **Collection Date:** 10/4/2017 9:53:00 AM
Project: DSFP Norwalk
Lab ID: 1710060-14 **Matrix:** AQUEOUS
Client Sample ID GMW-O-9

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/9/2017	TPH-E by EPA 8015C
Surr: Nonane	109	35-151		%Rec	10/9/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/12/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	106	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710060

Report Date: 10/17/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710060-14
Client Sample ID GMW-O-9

Collection Date: 10/4/2017 9:53:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	2.2	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	3.3	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	1.2	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	1.3	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	3.9	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	106	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710060

Report Date: 10/17/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710060-15
Client Sample ID GMW-O-10

Collection Date: 10/4/2017 10:37:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/9/2017	TPH-E by EPA 8015C
Surr: Nonane	109	35-151		%Rec	10/9/2017	TPH-E by EPA 8015C
TPH-P (GRO)	0.073	0.050		mg/L	10/12/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	108	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	10/12/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloroethane	2.1	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/12/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloroethane	6.3	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Benzene	28	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B



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Analytical Report

WO#: CHH1710060

Report Date: 10/17/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710060-15
Client Sample ID GMW-O-10

Collection Date: 10/4/2017 10:37:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/12/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/12/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/12/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: Toluene-d8	108	70-130		%Rec	10/12/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	10/12/2017	VOCs by EPA 8260B



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Analytical Report

WO#: CHH1710060

Report Date: 10/17/2017

CLIENT: CH2M Hill **Collection Date:** 10/4/2017 11:39:00 AM
Project: DSFP Norwalk
Lab ID: 1710060-16 **Matrix:** AQUEOUS
Client Sample ID: GMW-O-1

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/9/2017	TPH-E by EPA 8015C
Surr: Nonane	109	35-151		%Rec	10/9/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/13/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	89	70-130		%Rec	10/13/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	112	70-130		%Rec	10/13/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	10/13/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/13/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/13/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/13/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/13/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B



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Analytical Report

WO#: **CHH1710060**

Report Date: **10/17/2017**

CLIENT:	CH2M Hill	Collection Date:	10/4/2017 11:39:00 AM
Project:	DSFP Norwalk		
Lab ID:	1710060-16	Matrix:	AQUEOUS
Client Sample ID	GMW-O-1		

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	89	70-130		%Rec	10/13/2017	VOCs by EPA 8260B
Surr: Toluene-d8	112	70-130		%Rec	10/13/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	10/13/2017	VOCs by EPA 8260B



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Analytical Report

WO#: CHH1710060

Report Date: 10/17/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710060-17
Client Sample ID GMW-O-24

Collection Date: 10/4/2017 12:33:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/9/2017	TPH-E by EPA 8015C
Surr: Nonane	112	35-151		%Rec	10/9/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/13/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	93	70-130		%Rec	10/13/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	109	70-130		%Rec	10/13/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	10/13/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/13/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/13/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/13/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/13/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B



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Analytical Report

WO#: **CHH1710060**

Report Date: **10/17/2017**

CLIENT: CH2M Hill **Collection Date:** 10/4/2017 12:33:00 PM
Project: DSFP Norwalk
Lab ID: 1710060-17 **Matrix:** AQUEOUS
Client Sample ID GMW-O-24

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	93	70-130		%Rec	10/13/2017	VOCs by EPA 8260B
Surr: Toluene-d8	109	70-130		%Rec	10/13/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	10/13/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710060

Report Date: 10/17/2017

CLIENT: CH2M Hill **Collection Date:** 10/4/2017 1:18:00 PM
Project: DSFP Norwalk
Lab ID: 1710060-18 **Matrix:** AQUEOUS
Client Sample ID: GMW-39

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/9/2017	TPH-E by EPA 8015C
Surr: Nonane	106	35-151		%Rec	10/9/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/13/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	95	70-130		%Rec	10/13/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	108	70-130		%Rec	10/13/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	116	70-130		%Rec	10/13/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/13/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/13/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/13/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/13/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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Analytical Report

WO#: CHH1710060

Report Date: 10/17/2017

CLIENT: CH2M Hill **Collection Date:** 10/4/2017 1:18:00 PM
Project: DSFP Norwalk
Lab ID: 1710060-18 **Matrix:** AQUEOUS
Client Sample ID: GMW-39

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	95	70-130		%Rec	10/13/2017	VOCs by EPA 8260B
Surr: Toluene-d8	108	70-130		%Rec	10/13/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	116	70-130		%Rec	10/13/2017	VOCs by EPA 8260B



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 225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: **CHH1710060**

Report Date: **10/17/2017**

CLIENT: CH2M Hill **Collection Date:** 10/4/2017 1:57:00 PM
Project: DSFP Norwalk
Lab ID: 1710060-19 **Matrix:** AQUEOUS
Client Sample ID GMW-SF-8

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/9/2017	TPH-E by EPA 8015C
Surr: Nonane	105	35-151		%Rec	10/9/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/13/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	95	70-130		%Rec	10/13/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	110	70-130		%Rec	10/13/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	116	70-130		%Rec	10/13/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/13/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/13/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/13/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/13/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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 225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710060

Report Date: 10/17/2017

CLIENT: CH2M Hill **Collection Date:** 10/4/2017 1:57:00 PM
Project: DSFP Norwalk
Lab ID: 1710060-19 **Matrix:** AQUEOUS
Client Sample ID GMW-SF-8

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	95	70-130		%Rec	10/13/2017	VOCs by EPA 8260B
Surr: Toluene-d8	110	70-130		%Rec	10/13/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	116	70-130		%Rec	10/13/2017	VOCs by EPA 8260B



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Analytical Report

WO#: CHH1710060

Report Date: 10/17/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710060-20
Client Sample ID GMW-O-19

Collection Date: 10/4/2017 2:38:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/9/2017	TPH-E by EPA 8015C
Surr: Nonane	107	35-151		%Rec	10/9/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/13/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	96	70-130		%Rec	10/13/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	110	70-130		%Rec	10/13/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	10/13/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/13/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/13/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/13/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/13/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B



Alpha Analytical, Inc.

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Analytical Report

WO#: CHH1710060

Report Date: 10/17/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710060-20
Client Sample ID GMW-O-19

Collection Date: 10/4/2017 2:38:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	96	70-130		%Rec	10/13/2017	VOCs by EPA 8260B
Surr: Toluene-d8	110	70-130		%Rec	10/13/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	10/13/2017	VOCs by EPA 8260B



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Analytical Report

WO#: **CHH1710060**

Report Date: **10/17/2017**

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710060-21
Client Sample ID GMW-O-16

Collection Date: 10/4/2017 3:17:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/9/2017	TPH-E by EPA 8015C
Surr: Nonane	106	35-151		%Rec	10/9/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/13/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	96	70-130		%Rec	10/13/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	108	70-130		%Rec	10/13/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	10/13/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/13/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/13/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/13/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/13/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B



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Analytical Report

WO#: **CHH1710060**

Report Date: **10/17/2017**

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710060-21
Client Sample ID GMW-O-16

Collection Date: 10/4/2017 3:17:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	96	70-130		%Rec	10/13/2017	VOCs by EPA 8260B
Surr: Toluene-d8	108	70-130		%Rec	10/13/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	10/13/2017	VOCs by EPA 8260B



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Analytical Report

WO#: CHH1710060

Report Date: 10/17/2017

CLIENT: CH2M Hill **Collection Date:** 10/4/2017 3:30:00 PM
Project: DSFP Norwalk
Lab ID: 1710060-22 **Matrix:** AQUEOUS
Client Sample ID EB-4

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/9/2017	TPH-E by EPA 8015C
Surr: Nonane	99	35-151		%Rec	10/9/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/13/2017	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	10/13/2017	TPH-P by EPA 8015C
Surr: Toluene-d8	108	70-130		%Rec	10/13/2017	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	10/13/2017	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/13/2017	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/13/2017	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/13/2017	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/13/2017	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B



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Analytical Report

WO#: **CHH1710060**

Report Date: **10/17/2017**

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710060-22
Client Sample ID EB-4

Collection Date: 10/4/2017 3:30:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/13/2017	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/13/2017	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/13/2017	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/13/2017	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	10/13/2017	VOCs by EPA 8260B
Surr: Toluene-d8	108	70-130		%Rec	10/13/2017	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	10/13/2017	VOCs by EPA 8260B



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QC SUMMARY REPORT

WO#: 1710060

17-Oct-17

Client: CH2M Hill
Project: DSFP Norwalk

TestCode: TPH/E_W

Sample ID: MB-2347	SampType: MBLK	TestCode: TPH/E_W	Units: mg/L								
Client ID: PBW	Batch ID: 2347	TestNo: SW8015	SW8015								
Prep Date: 10/6/2017	RunNo: 1875	SeqNo: 46109									
Analysis Date: 10/8/2017											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	ND	0.05									
Surr: Nonane	0.14		0.15		90.0	34.51	151.49				

Sample ID: LCS-2347	SampType: LCS	TestCode: TPH/E_W	Units: mg/L								
Client ID: LCSW	Batch ID: 2347	TestNo: SW8015	SW8015								
Prep Date: 10/6/2017	RunNo: 1875	SeqNo: 46110									
Analysis Date: 10/8/2017											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	2.24	0.05	2.5	0	89.8	72.51	151.49				
Surr: Nonane	0.137		0.15		91.3	34.51	151.49				

Sample ID: 1710053-24AMSD	SampType: MSD	TestCode: TPH/E_W	Units: mg/L								
Client ID: BatchQC	Batch ID: 2347	TestNo: SW8015	SW8015								
Prep Date: 10/6/2017	RunNo: 1875	SeqNo: 46113									
Analysis Date: 10/8/2017											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	2.25	0.1	2.5	0	89.8	63.51	161.49	2.35	4.5	40	
Surr: Nonane	0.284		0.3		94.7	32.51	162.49	0.294	0	0	

Sample ID: 1710053-24AMS	SampType: MS	TestCode: TPH/E_W	Units: mg/L								
Client ID: BatchQC	Batch ID: 2347	TestNo: SW8015	SW8015								
Prep Date: 10/6/2017	RunNo: 1875	SeqNo: 46112									
Analysis Date: 10/8/2017											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	2.35	0.1	2.5	0	94.0	63.51	161.49				
Surr: Nonane	0.294		0.3		98.0	32.51	162.49				

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - ND Not Detected at the Reporting Limit
 - R RPD outside accepted recovery limits
 - S Spike Recovery outside accepted recovery limits



Client: CH2M Hill
Project: DSFP Norwalk

TestCode: TPH/E_W

Sample ID: MB-2351	SampType: MBLK	TestCode: TPH/E_W	Units: mg/L
Client ID: PBW	Batch ID: 2351	TestNo: SW8015	SW8015
Prep Date: 10/6/2017	RunNo: 1878	SeqNo: 46203	
Analysis Date: 10/9/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	ND	0.05									
Surr: Nonane	0.16		0.15		110	34.51	151.49				B

Sample ID: LCS-2351	SampType: LCS	TestCode: TPH/E_W	Units: mg/L
Client ID: LCSW	Batch ID: 2351	TestNo: SW8015	SW8015
Prep Date: 10/6/2017	RunNo: 1878	SeqNo: 46204	
Analysis Date: 10/9/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	2.4	0.05	2.5	0	96.1	72.51	151.49				
Surr: Nonane	0.158		0.15		105	34.51	151.49				

Sample ID: 1710060-02AMSD	SampType: MSD	TestCode: TPH/E_W	Units: mg/L
Client ID: GMW-O-3MSD	Batch ID: 2351	TestNo: SW8015	SW8015
Prep Date: 10/6/2017	RunNo: 1878	SeqNo: 46207	
Analysis Date: 10/9/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	2.51	0.1	2.5	0	99.4	63.51	161.49	2.53	0.75	40	
Surr: Nonane	0.346		0.3		115	32.51	162.49	0.327	0	0	

Sample ID: 1710060-02AMS	SampType: MS	TestCode: TPH/E_W	Units: mg/L
Client ID: GMW-O-3MS	Batch ID: 2351	TestNo: SW8015	SW8015
Prep Date: 10/6/2017	RunNo: 1878	SeqNo: 46206	
Analysis Date: 10/9/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	2.53	0.1	2.5	0	100	63.51	161.49				
Surr: Nonane	0.327		0.3		109	32.51	162.49				

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - ND Not Detected at the Reporting Limit
 - R RPD outside accepted recovery limits
 - S Spike Recovery outside accepted recovery limits



Client: CH2M Hill
Project: DSFP Norwalk

TestCode: TPH/P_W

Sample ID: MB-2383	SampType: MBLK	TestCode: TPH/P_W	Units: mg/L								
Client ID: PBW	Batch ID: A2383B	TestNo: SW8015									
Prep Date: 10/12/2017	RunNo: 1906	SeqNo: 46850									
Analysis Date: 10/12/2017											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	ND	0.05									
Surr: 1,2-Dichloroethane-d4	0.0099		0.01		98.6	69.51	130.49				
Surr: Toluene-d8	0.011		0.01		108	69.51	130.49				
Surr: 4-Bromofluorobenzene	0.011		0.01		110	69.51	130.49				

Sample ID: GLCS-2383	SampType: GLCS	TestCode: TPH/P_W	Units: mg/L								
Client ID: BatchQC	Batch ID: A2383B	TestNo: SW8015									
Prep Date: 10/12/2017	RunNo: 1906	SeqNo: 46851									
Analysis Date: 10/12/2017											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	0.375	0.05	0.4	0	93.7	69.51	130.49				
Surr: 1,2-Dichloroethane-d4	0.00971		0.01		97.1	69.51	130.49				
Surr: Toluene-d8	0.0109		0.01		109	69.51	130.49				
Surr: 4-Bromofluorobenzene	0.0104		0.01		104	69.51	130.49				

Sample ID: 1710060-02AGSD	SampType: GSD	TestCode: TPH/P_W	Units: mg/L								
Client ID: GMW-O-3	Batch ID: A2383B	TestNo: SW8015									
Prep Date: 10/12/2017	RunNo: 1906	SeqNo: 46871									
Analysis Date: 10/12/2017											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	1.48	0.25	2	0	74.1	53.51	143.49	1.35	9.4	23	
Surr: 1,2-Dichloroethane-d4	0.0504		0.05		101	69.51	130.49	0.0512	0	0	
Surr: Toluene-d8	0.0535		0.05		107	69.51	130.49	0.0543	0	0	
Surr: 4-Bromofluorobenzene	0.0561		0.05		112	69.51	130.49	0.0564	0	0	

Sample ID: 1710060-02AGS	SampType: GS	TestCode: TPH/P_W	Units: mg/L								
Client ID: GMW-O-3	Batch ID: A2383B	TestNo: SW8015									
Prep Date: 10/12/2017	RunNo: 1906	SeqNo: 46870									
Analysis Date: 10/12/2017											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	1.35	0.25	2	0	67.5	53.51	143.49				
Surr: 1,2-Dichloroethane-d4	0.0512		0.05		102	69.51	130.49				
Surr: Toluene-d8	0.0543		0.05		109	69.51	130.49				
Surr: 4-Bromofluorobenzene	0.0564		0.05		113	69.51	130.49				

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



Client: CH2M Hill
Project: DSFP Norwalk

TestCode: TPH/P_W

Sample ID: 1710060-02AGS	SampType: GS	TestCode: TPH/P_W	Units: mg/L								
Client ID: GMW-O-3	Batch ID: A2383B	TestNo: SW8015									
Prep Date: 10/12/2017	RunNo: 1906	SeqNo: 46870									
Analysis Date: 10/12/2017											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: MB-2392	SampType: MBLK	TestCode: TPH/P_W	Units: mg/L								
Client ID: PBW	Batch ID: A2392B	TestNo: SW8015									
Prep Date: 10/13/2017	RunNo: 1911	SeqNo: 47017									
Analysis Date: 10/13/2017											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	ND	0.05									
Surr: 1,2-Dichloroethane-d4	0.01		0.01		101	69.51	130.49				
Surr: Toluene-d8	0.011		0.01		106	69.51	130.49				
Surr: 4-Bromofluorobenzene	0.012		0.01		120	69.51	130.49				

Sample ID: GLCS-2392	SampType: GLCS	TestCode: TPH/P_W	Units: mg/L								
Client ID: BatchQC	Batch ID: A2392B	TestNo: SW8015									
Prep Date: 10/13/2017	RunNo: 1911	SeqNo: 47016									
Analysis Date: 10/13/2017											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	0.374	0.05	0.4	0	93.4	69.51	130.49				
Surr: 1,2-Dichloroethane-d4	0.0092		0.01		92.0	69.51	130.49				
Surr: Toluene-d8	0.011		0.01		110	69.51	130.49				
Surr: 4-Bromofluorobenzene	0.0119		0.01		119	69.51	130.49				

Sample ID: 1710060-16AGSD	SampType: GSD	TestCode: TPH/P_W	Units: mg/L								
Client ID: GMW-O-1	Batch ID: A2392B	TestNo: SW8015									
Prep Date: 10/13/2017	RunNo: 1911	SeqNo: 47051									
Analysis Date: 10/13/2017											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	2.21	0.25	2	0	110	53.51	143.49	2.15	2.6	23	
Surr: 1,2-Dichloroethane-d4	0.0485		0.05		97.0	69.51	130.49	0.0492	0	0	
Surr: Toluene-d8	0.0545		0.05		109	69.51	130.49	0.0543	0	0	
Surr: 4-Bromofluorobenzene	0.055		0.05		110	69.51	130.49	0.0561	0	0	

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1710060
 17-Oct-17

Client: CH2M Hill
Project: DSFP Norwalk

TestCode: TPH/P_W

Sample ID: 1710060-16AGS	SampType: GS	TestCode: TPH/P_W	Units: mg/L
Client ID: GMW-O-1	Batch ID: A2392B	TestNo: SW8015	
Prep Date: 10/13/2017	RunNo: 1911	SeqNo: 47050	
Analysis Date: 10/13/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	2.15	0.25	2	0	107	53.51	143.49				
Surr: 1,2-Dichloroethane-d4	0.0492		0.05		98.4	69.51	130.49				
Surr: Toluene-d8	0.0543		0.05		109	69.51	130.49				
Surr: 4-Bromofluorobenzene	0.0561		0.05		112	69.51	130.49				

Qualifiers:
 B Analyte detected in the associated Method Blank
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QC SUMMARY REPORT

WO#: 1710060

17-Oct-17

Client: CH2M Hill
Project: DSFP Norwalk

TestCode: VOC_W

Sample ID: MB-2383	SampType: MBLK	TestCode: VOC_W	Units: µg/L
Client ID: PBW	Batch ID: A2383	TestNo: SW8260B	
Prep Date: 10/12/2017	RunNo: 1906	SeqNo: 46847	
Analysis Date: 10/12/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	1									
Chloromethane	ND	2									
Vinyl chloride	ND	1									
Chloroethane	ND	1									
Bromomethane	ND	2									
Trichlorofluoromethane	ND	1									
Acetone	ND	10									
1,1-Dichloroethene	ND	1									
Tertiary Butyl Alcohol (TBA)	ND	10									
Dichloromethane	ND	2									
Freon-113	ND	1									
Carbon disulfide	ND	2.5									
trans-1,2-Dichloroethene	ND	1									
Methyl tert-butyl ether (MTBE)	ND	0.25									
1,1-Dichloroethane	ND	1									
Vinyl acetate	ND	50									
2-Butanone (MEK)	ND	10									
Di-isopropyl Ether (DIPE)	ND	1									
cis-1,2-Dichloroethene	ND	1									
Bromochloromethane	ND	1									
Chloroform	ND	1									
Ethyl Tertiary Butyl Ether (ETBE)	ND	1									
2,2-Dichloropropane	ND	1									
1,2-Dichloroethane	ND	1									
1,1,1-Trichloroethane	ND	1									
1,1-Dichloropropene	ND	1									
Carbon tetrachloride	ND	1									
Benzene	ND	0.25									
Tertiary Amyl Methyl Ether (TAME)	ND	1									
Dibromomethane	ND	1									
1,2-Dichloropropane	ND	1									
Trichloroethene	ND	1									
Bromodichloromethane	ND	1									
4-Methyl-2-pentanone (MIBK)	ND	2.5									
cis-1,3-Dichloropropene	ND	1									
trans-1,3-Dichloropropene	ND	1									
1,1,2-Trichloroethane	ND	1									
Toluene	ND	0.25									
1,3-Dichloropropane	ND	1									
2-Hexanone	ND	5									

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



Client: CH2M Hill
Project: DSFP Norwalk

TestCode: VOC_W

Sample ID: MB-2383	SampType: MBLK	TestCode: VOC_W	Units: µg/L
Client ID: PBW	Batch ID: A2383	TestNo: SW8260B	
Prep Date: 10/12/2017	RunNo: 1906	SeqNo: 46847	
Analysis Date: 10/12/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloromethane	ND	1									
1,2-Dibromoethane (EDB)	ND	2									
Tetrachloroethene	ND	1									
1,1,1,2-Tetrachloroethane	ND	1									
Chlorobenzene	ND	1									
Ethylbenzene	ND	0.25									
m,p-Xylene	ND	0.25									
Bromoform	ND	1									
Xylenes, Total	ND	0.25									
Styrene	ND	1									
o-Xylene	ND	0.25									
1,1,2,2-Tetrachloroethane	ND	1									
1,2,3-Trichloropropane	ND	2									
Isopropylbenzene	ND	1									
Bromobenzene	ND	1									
n-Propylbenzene	ND	1									
4-Chlorotoluene	ND	1									
2-Chlorotoluene	ND	1									
1,3,5-Trimethylbenzene	ND	1									
tert-Butylbenzene	ND	1									
1,2,4-Trimethylbenzene	ND	1									
sec-Butylbenzene	ND	1									
1,3-Dichlorobenzene	ND	1									
1,4-Dichlorobenzene	ND	1									
4-Isopropyltoluene	ND	1									
1,2-Dichlorobenzene	ND	1									
n-Butylbenzene	ND	1									
1,2-Dibromo-3-chloropropane (DBCP)	ND	3									
1,2,4-Trichlorobenzene	ND	2									
Naphthalene	ND	2									
1,2,3-Trichlorobenzene	ND	2									
Surr: 1,2-Dichloroethane-d4	9.9		10		98.6	69.51	130.49				
Surr: Toluene-d8	11		10		108	69.51	130.49				
Surr: 4-Bromofluorobenzene	11		10		110	69.51	130.49				

Qualifiers:
 B Analyte detected in the associated Method Blank
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QC SUMMARY REPORT

WO#: 1710060
17-Oct-17

Client: CH2M Hill
Project: DSFP Norwalk

TestCode: VOC_W

Sample ID: LCS-2383	SampType: LCS	TestCode: VOC_W	Units: µg/L
Client ID: LCSW	Batch ID: A2383	TestNo: SW8260B	
Prep Date: 10/12/2017	RunNo: 1906	SeqNo: 46846	
Analysis Date: 10/12/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	12.3	1	10	0	123	68.51	130.49				
Chloromethane	11	2	10	0	110	39.51	145.49				
Vinyl chloride	9.51	1	10	0	95.1	41.51	157.49				
Chloroethane	16.7	1	10	0	167	69.51	130.49				S
Bromomethane	10.3	2	10	0	103	13.51	162.49				
Trichlorofluoromethane	10.2	1	10	0	102	45.51	154.49				
Acetone	172	10	200	0	86.1	21.51	188.49				
1,1-Dichloroethene	8.77	1	10	0	87.7	69.51	130.49				
Tertiary Butyl Alcohol (TBA)	81.5	10	100	0	81.5	69.51	130.49				
Dichloromethane	8.55	2	10	0	85.5	65.51	135.49				
Freon-113	10.7	1	10	0	107	69.51	131.49				
trans-1,2-Dichloroethene	9.21	1	10	0	92.1	69.51	131.49				
Methyl tert-butyl ether (MTBE)	8.41	0.25	10	0	84.1	68.51	134.49				
1,1-Dichloroethane	9	1	10	0	90.0	69.51	130.49				
2-Butanone (MEK)	146	10	200	0	73.0	25.51	183.49				
Di-isopropyl Ether (DIPE)	8.17	1	10	0	81.7	48.51	147.49				
cis-1,2-Dichloroethene	8.37	1	10	0	83.7	69.51	130.49				
Bromochloromethane	9.38	1	10	0	93.8	57.51	147.49				
Chloroform	8.31	1	10	0	83.1	39.51	145.49				
Ethyl Tertiary Butyl Ether (ETBE)	8.76	1	10	0	87.6	69.51	130.49				
2,2-Dichloropropane	11.4	1	10	0	114	25.51	183.49				
1,2-Dichloroethane	8.91	1	10	0	89.1	69.51	130.49				
1,1,1-Trichloroethane	9.91	1	10	0	99.1	69.51	130.49				
1,1-Dichloropropene	8.39	1	10	0	83.9	53.51	135.49				
Carbon tetrachloride	9.18	1	10	0	91.8	69.51	130.49				
Benzene	9.11	0.25	10	0	91.1	69.51	130.49				
Tertiary Amyl Methyl Ether (TAME)	8.94	1	10	0	89.4	47.51	148.49				
Dibromomethane	8.81	1	10	0	88.1	31.51	145.49				
1,2-Dichloropropane	9.26	1	10	0	92.6	69.51	134.49				
Trichloroethene	8.45	1	10	0	84.5	45.51	154.49				
Bromodichloromethane	8.22	1	10	0	82.2	59.51	144.49				
4-Methyl-2-pentanone (MIBK)	18.6	2.5	25	0	74.3	21.51	188.49				
cis-1,3-Dichloropropene	8.45	1	10	0	84.5	68.51	133.49				
trans-1,3-Dichloropropene	10.3	1	10	0	103	69.51	131.49				
1,1,2-Trichloroethane	9.62	1	10	0	96.2	69.51	130.49				
Toluene	8.97	0.25	10	0	89.7	69.51	132.49				
1,3-Dichloropropane	10.1	1	10	0	101	69.51	130.49				
2-Hexanone	87.7	5	100	0	87.7	69.51	132.49				
Dibromochloromethane	9.94	1	10	0	99.4	69.51	130.49				
1,2-Dibromoethane (EDB)	20.5	2	20	0	102	69.51	131.49				

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1710060

17-Oct-17

Client: CH2M Hill
Project: DSFP Norwalk

TestCode: VOC_W

Sample ID: LCS-2383	SampType: LCS	TestCode: VOC_W	Units: µg/L
Client ID: LCSW	Batch ID: A2383	TestNo: SW8260B	
Prep Date: 10/12/2017	RunNo: 1906	SeqNo: 46846	
Analysis Date: 10/12/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	8.12	1	10	0	81.2	69.51	130.49				
1,1,1,2-Tetrachloroethane	10.7	1	10	0	107	69.51	135.49				
Chlorobenzene	9.31	1	10	0	93.1	37.51	156.49				
Ethylbenzene	10.3	0.25	10	0	102	69.51	136.49				
m,p-Xylene	9.85	0.25	10	0	98.5	62.51	137.49				
Bromoform	8.92	1	10	0	89.2	13.51	162.49				
Xylenes, Total	18.4	0.25	20	0	92.2	49.51	200.49				
Styrene	8.26	1	10	0	82.6	54.51	144.49				
o-Xylene	8.59	0.25	10	0	85.9	69.51	132.49				
1,1,2,2-Tetrachloroethane	10.2	1	10	0	102	69.51	130.49				
1,2,3-Trichloropropane	20.4	2	20	0	102	61.51	131.49				
Isopropylbenzene	8.63	1	10	0	86.3	64.51	139.49				
Bromobenzene	9.35	1	10	0	93.5	69.51	133.49				
n-Propylbenzene	10.6	1	10	0	106	38.51	149.49				
4-Chlorotoluene	10.9	1	10	0	109	39.51	161.49				
2-Chlorotoluene	10.7	1	10	0	107	47.51	157.49				
1,3,5-Trimethylbenzene	10.9	1	10	0	109	69.51	130.49				
tert-Butylbenzene	10.6	1	10	0	106	62.51	139.49				
1,2,4-Trimethylbenzene	11.1	1	10	0	111	66.51	130.49				
sec-Butylbenzene	10.1	1	10	0	101	54.51	144.49				
1,3-Dichlorobenzene	10.5	1	10	0	105	69.51	130.49				
1,4-Dichlorobenzene	10.5	1	10	0	105	69.51	130.49				
4-Isopropyltoluene	10.5	1	10	0	105	58.51	140.49				
1,2-Dichlorobenzene	9.89	1	10	0	98.9	69.51	133.49				
n-Butylbenzene	9.98	1	10	0	99.8	68.51	134.49				
1,2-Dibromo-3-chloropropane (DBCP)	46.7	3	50	0	93.5	69.51	131.49				
1,2,4-Trichlorobenzene	9.17	2	10	0	91.7	69.51	133.49				
Naphthalene	8.84	2	10	0	88.4	69.51	130.49				
1,2,3-Trichlorobenzene	8.98	2	10	0	89.8	69.51	130.49				
Surr: 1,2-Dichloroethane-d4	9.33		10		93.3	69.51	130.49				
Surr: Toluene-d8	10.8		10		108	69.51	130.49				
Surr: 4-Bromofluorobenzene	10.8		10		108	69.51	130.49				

Sample ID: 1710060-02AMSD	SampType: MSD	TestCode: VOC_W	Units: µg/L
Client ID: GMW-O-3MSD	Batch ID: A2383	TestNo: SW8260B	
Prep Date: 10/12/2017	RunNo: 1906	SeqNo: 46845	
Analysis Date: 10/12/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



Client: CH2M Hill
Project: DSFP Norwalk

TestCode: VOC_W

Sample ID: 1710060-02AMSD	SampType: MSD	TestCode: VOC_W	Units: µg/L
Client ID: GMW-O-3MSD	Batch ID: A2383	TestNo: SW8260B	
Prep Date: 10/12/2017	RunNo: 1906	SeqNo: 46845	
Analysis Date: 10/12/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	30.1	5	50	0	60.2	11.51	150.49	31.5	4.4	30	
Chloromethane	28.9	10	50	0	57.7	25.51	146.49	24.8	15	30	
Vinyl chloride	31.8	5	50	0	63.6	45.51	142.49	30.9	2.9	30	
Chloroethane	65.8	5	50	0	132	24.51	164.49	68.9	4.6	30	
Bromomethane	16.9	10	50	0	33.7	9.51	172.49	9.25	58	30	R
Trichlorofluoromethane	44	5	50	0	88.1	31.51	164.49	42.9	2.7	30	
Acetone	916	50	1000	0	91.6	9.51	188.49	839	8.8	30	
1,1-Dichloroethene	38.4	5	50	0	76.7	61.51	133.49	36.3	5.6	30	
Tertiary Butyl Alcohol (TBA)	486	50	500	0	97.2	43.51	155.49	429	12	30	
Dichloromethane	42	10	50	0	83.9	68.51	130.49	39.6	5.7	30	
Freon-113	43.2	5	50	0	86.4	55.51	144.49	41.7	3.6	30	
trans-1,2-Dichloroethene	43.5	5	50	0	86.9	66.51	131.49	40.7	6.6	30	
Methyl tert-butyl ether (MTBE)	43.2	1.25	50	0	86.5	55.51	140.49	40.4	6.8	30	
1,1-Dichloroethane	46.3	5	50	0	92.7	66.51	130.49	43.4	6.5	30	
2-Butanone (MEK)	781	50	1000	0	78.1	25.51	183.49	727	7.2	30	
Di-isopropyl Ether (DIPE)	44.1	5	50	0	88.2	58.51	138.49	41.6	6	30	
cis-1,2-Dichloroethene	41.3	5	50	0	82.6	69.51	130.49	38.9	5.9	30	
Bromochloromethane	45.4	5	50	0	90.8	69.51	134.49	41.7	8.6	30	
Chloroform	43.7	5	50	0	87.3	68.51	130.49	41.4	5.2	30	
Ethyl Tertiary Butyl Ether (ETBE)	46.2	5	50	0	92.4	61.51	135.49	43.1	6.8	30	
2,2-Dichloropropane	43.8	5	50	0	87.7	43.51	149.49	42.3	3.6	30	
1,2-Dichloroethane	49.3	5	50	0	98.6	63.51	139.49	47	4.8	30	
1,1,1-Trichloroethane	50.5	5	50	0	101	64.51	139.49	48.1	4.9	30	
1,1-Dichloropropene	41.8	5	50	0	83.5	67.51	134.49	39.5	5.5	30	
Carbon tetrachloride	45.7	5	50	0	91.4	55.51	146.49	43	6	30	
Benzene	45.3	1.25	50	0	90.6	66.51	134.49	42.8	5.7	30	
Tertiary Amyl Methyl Ether (TAME)	46.4	5	50	0	92.9	63.51	135.49	43.5	6.6	30	
Dibromomethane	45.7	5	50	0	91.4	69.51	132.49	42.6	7.1	30	
1,2-Dichloropropane	49.5	5	50	0	98.9	68.51	134.49	46.2	6.8	30	
Trichloroethene	41	5	50	0	82.0	67.51	138.49	38.6	6.1	30	
Bromodichloromethane	43.9	5	50	0	87.7	57.51	147.49	41.6	5.3	30	
4-Methyl-2-pentanone (MIBK)	104	12.5	125	0	82.8	48.51	140.49	95.5	8.1	30	
cis-1,3-Dichloropropene	40.4	5	50	0	80.8	60.51	130.49	37.9	6.3	30	
trans-1,3-Dichloropropene	51.2	5	50	0	102	61.51	131.49	47	8.4	30	
1,1,2-Trichloroethane	50.5	5	50	0	101	69.51	131.49	46.3	8.7	30	
Toluene	45.3	1.25	50	0	90.5	37.51	130.49	42.6	6.1	30	
1,3-Dichloropropane	52.2	5	50	0	104	69.51	130.49	48	8.4	30	
2-Hexanone	493	25	500	0	98.6	24.51	157.49	449	9.2	30	
Dibromochloromethane	50.4	5	50	0	101	48.51	147.49	46.6	7.7	30	
1,2-Dibromoethane (EDB)	104	10	100	0	104	69.51	131.49	94.3	9.8	30	

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1710060

17-Oct-17

Client: CH2M Hill
Project: DSFP Norwalk

TestCode: VOC_W

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sample ID: 1710060-02AMSD	SampType: MSD		TestCode: VOC_W		Units: µg/L						
Client ID: GMW-O-3MSD	Batch ID: A2383		TestNo: SW8260B								
Prep Date: 10/12/2017	RunNo: 1906		SeqNo: 46845								
Analysis Date: 10/12/2017											
Tetrachloroethene	37.9	5	50	0	75.8	62.51	134.49	35.2	7.3	30	
1,1,1,2-Tetrachloroethane	54.4	5	50	0	109	69.51	133.49	50.4	7.7	30	
Chlorobenzene	47.8	5	50	0	95.6	69.51	130.49	44.1	8.1	30	
Ethylbenzene	52.6	1.25	50	0	105	69.51	130.49	48.5	8.1	30	
m,p-Xylene	50.4	1.25	50	0	101	64.51	139.49	46.5	7.9	30	
Bromoform	44.5	5	50	0	89.1	59.51	144.49	40.4	9.7	30	
Xylenes, Total	94.1	1.25	100	0	94.1	69.51	130.49	86.8	8.2	30	
Styrene	42.1	5	50	0	84.2	52.51	144.49	38.6	8.6	30	
o-Xylene	43.8	1.25	50	0	87.5	68.51	130.49	40.2	8.4	30	
1,1,2,2-Tetrachloroethane	56.5	5	50	0	113	66.51	134.49	52.3	7.8	30	
1,2,3-Trichloropropane	115	10	100	0	115	69.51	130.49	106	8.3	30	
Isopropylbenzene	44.7	5	50	0	89.3	63.51	136.49	40.7	9.3	30	
Bromobenzene	46.6	5	50	0	93.2	68.51	130.49	42.2	10	30	
n-Propylbenzene	56.5	5	50	0	113	64.51	132.49	51.3	9.7	30	
4-Chlorotoluene	57.8	5	50	0	116	68.51	132.49	52.3	10	30	
2-Chlorotoluene	57	5	50	0	114	68.51	130.49	52.4	8.4	30	
1,3,5-Trimethylbenzene	60.4	5	50	0	121	63.51	135.49	54.6	10	30	
tert-Butylbenzene	58.9	5	50	0	118	62.51	139.49	53.4	9.7	30	
1,2,4-Trimethylbenzene	61.2	5	50	0	122	61.51	135.49	55.5	9.9	30	
sec-Butylbenzene	56.1	5	50	0	112	67.51	132.49	49.9	12	30	
1,3-Dichlorobenzene	56	5	50	0	112	69.51	130.49	49.6	12	30	
1,4-Dichlorobenzene	54.8	5	50	0	110	69.51	130.49	49.4	10	30	
4-Isopropyltoluene	58.7	5	50	0	117	39.51	161.49	52.5	11	30	
1,2-Dichlorobenzene	53.1	5	50	0	106	69.51	130.49	47.6	11	30	
n-Butylbenzene	56.7	5	50	0	113	57.51	135.49	49.5	13	30	
1,2-Dibromo-3-chloropropane (DBCP)	264	15	250	0	106	62.51	131.49	230	14	30	
1,2,4-Trichlorobenzene	53.9	10	50	0	108	56.51	134.49	40.1	29	30	
Naphthalene	59.3	10	50	0	119	30.51	157.49	42.2	34	30	R
1,2,3-Trichlorobenzene	62.2	10	50	0	124	51.51	138.49	35.3	55	30	R
Surr: 1,2-Dichloroethane-d4	50.8		50		102	69.51	130.49	50.9	0	0	
Surr: Toluene-d8	52.5		50		105	69.51	130.49	51.9	0	0	
Surr: 4-Bromofluorobenzene	56.5		50		113	69.51	130.49	56.5	0	0	

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sample ID: 1710060-02AMS	SampType: MS		TestCode: VOC_W		Units: µg/L						
Client ID: GMW-O-3MS	Batch ID: A2383		TestNo: SW8260B								
Prep Date: 10/12/2017	RunNo: 1906		SeqNo: 46844								
Analysis Date: 10/12/2017											

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1710060

17-Oct-17

Client: CH2M Hill
Project: DSFP Norwalk

TestCode: VOC_W

Sample ID: 1710060-02AMS	SampType: MS	TestCode: VOC_W	Units: µg/L
Client ID: GMW-O-3MS	Batch ID: A2383	TestNo: SW8260B	
Prep Date: 10/12/2017	RunNo: 1906	SeqNo: 46844	
Analysis Date: 10/12/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	31.5	5	50	0	63.0	11.51	150.49				
Chloromethane	24.8	10	50	0	49.6	25.51	146.49				
Vinyl chloride	30.9	5	50	0	61.8	45.51	142.49				
Chloroethane	68.9	5	50	0	138	24.51	164.49				
Bromomethane	9.25	10	50	0	18.5	9.51	172.49				
Trichlorofluoromethane	42.9	5	50	0	85.7	31.51	164.49				
Acetone	839	50	1000	0	83.9	9.51	188.49				
1,1-Dichloroethene	36.3	5	50	0	72.5	61.51	133.49				
Tertiary Butyl Alcohol (TBA)	429	50	500	0	85.9	43.51	155.49				
Dichloromethane	39.6	10	50	0	79.3	68.51	130.49				
Freon-113	41.7	5	50	0	83.4	55.51	144.49				
trans-1,2-Dichloroethene	40.7	5	50	0	81.4	66.51	131.49				
Methyl tert-butyl ether (MTBE)	40.4	1.25	50	0	80.8	55.51	140.49				
1,1-Dichloroethane	43.4	5	50	0	86.8	66.51	130.49				
2-Butanone (MEK)	727	50	1000	0	72.7	25.51	183.49				
Di-isopropyl Ether (DIPE)	41.6	5	50	0	83.1	58.51	138.49				
cis-1,2-Dichloroethene	38.9	5	50	0	77.8	69.51	130.49				
Bromochloromethane	41.7	5	50	0	83.3	69.51	134.49				
Chloroform	41.4	5	50	0	82.9	68.51	130.49				
Ethyl Tertiary Butyl Ether (ETBE)	43.1	5	50	0	86.3	61.51	135.49				
2,2-Dichloropropane	42.3	5	50	0	84.5	43.51	149.49				
1,2-Dichloroethane	47	5	50	0	94.0	63.51	139.49				
1,1,1-Trichloroethane	48.1	5	50	0	96.2	64.51	139.49				
1,1-Dichloropropene	39.5	5	50	0	79.0	67.51	134.49				
Carbon tetrachloride	43	5	50	0	86.1	55.51	146.49				
Benzene	42.8	1.25	50	0	85.6	66.51	134.49				
Tertiary Amyl Methyl Ether (TAME)	43.5	5	50	0	87.0	63.51	135.49				
Dibromomethane	42.6	5	50	0	85.2	69.51	132.49				
1,2-Dichloropropane	46.2	5	50	0	92.4	68.51	134.49				
Trichloroethene	38.6	5	50	0	77.2	67.51	138.49				
Bromodichloromethane	41.6	5	50	0	83.2	57.51	147.49				
4-Methyl-2-pentanone (MIBK)	95.5	12.5	125	0	76.4	48.51	140.49				
cis-1,3-Dichloropropene	37.9	5	50	0	75.8	60.51	130.49				
trans-1,3-Dichloropropene	47	5	50	0	94.1	61.51	131.49				
1,1,2-Trichloroethane	46.3	5	50	0	92.6	69.51	131.49				
Toluene	42.6	1.25	50	0	85.2	37.51	130.49				
1,3-Dichloropropane	48	5	50	0	96.0	69.51	130.49				
2-Hexanone	449	25	500	0	89.9	24.51	157.49				
Dibromochloromethane	46.6	5	50	0	93.3	48.51	147.49				
1,2-Dibromoethane (EDB)	94.3	10	100	0	94.3	69.51	131.49				

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



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Website: www.alpha-analytical.com

QC SUMMARY REPORT

WO#: 1710060

17-Oct-17

Client: CH2M Hill
Project: DSFP Norwalk

TestCode: VOC_W

Sample ID: 1710060-02AMS	SampType: MS	TestCode: VOC_W	Units: µg/L
Client ID: GMW-O-3MS	Batch ID: A2383	TestNo: SW8260B	
Prep Date: 10/12/2017	RunNo: 1906	SeqNo: 46844	
Analysis Date: 10/12/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	35.2	5	50	0	70.5	62.51	134.49				
1,1,1,2-Tetrachloroethane	50.4	5	50	0	101	69.51	133.49				
Chlorobenzene	44.1	5	50	0	88.2	69.51	130.49				
Ethylbenzene	48.5	1.25	50	0	97.0	69.51	130.49				
m,p-Xylene	46.5	1.25	50	0	93.0	64.51	139.49				
Bromoform	40.4	5	50	0	80.8	59.51	144.49				
Xylenes, Total	86.8	1.25	100	0	86.8	69.51	130.49				
Styrene	38.6	5	50	0	77.3	52.51	144.49				
o-Xylene	40.2	1.25	50	0	80.5	68.51	130.49				
1,1,2,2-Tetrachloroethane	52.3	5	50	0	105	66.51	134.49				
1,2,3-Trichloropropane	106	10	100	0	106	69.51	130.49				
Isopropylbenzene	40.7	5	50	0	81.4	63.51	136.49				
Bromobenzene	42.2	5	50	0	84.4	68.51	130.49				
n-Propylbenzene	51.3	5	50	0	102	64.51	132.49				
4-Chlorotoluene	52.3	5	50	0	105	68.51	132.49				
2-Chlorotoluene	52.4	5	50	0	105	68.51	130.49				
1,3,5-Trimethylbenzene	54.6	5	50	0	109	63.51	135.49				
tert-Butylbenzene	53.4	5	50	0	107	62.51	139.49				
1,2,4-Trimethylbenzene	55.5	5	50	0	111	61.51	135.49				
sec-Butylbenzene	49.9	5	50	0	99.9	67.51	132.49				
1,3-Dichlorobenzene	49.6	5	50	0	99.2	69.51	130.49				
1,4-Dichlorobenzene	49.4	5	50	0	98.8	69.51	130.49				
4-Isopropyltoluene	52.5	5	50	0	105	39.51	161.49				
1,2-Dichlorobenzene	47.6	5	50	0	95.1	69.51	130.49				
n-Butylbenzene	49.5	5	50	0	99.0	57.51	135.49				
1,2-Dibromo-3-chloropropane (DBCP)	230	15	250	0	91.9	62.51	131.49				
1,2,4-Trichlorobenzene	40.1	10	50	0	80.2	56.51	134.49				
Naphthalene	42.2	10	50	0	84.4	30.51	157.49				
1,2,3-Trichlorobenzene	35.3	10	50	0	70.5	51.51	138.49				
Surr: 1,2-Dichloroethane-d4	50.9		50		102	69.51	130.49				
Surr: Toluene-d8	51.9		50		104	69.51	130.49				
Surr: 4-Bromofluorobenzene	56.5		50		113	69.51	130.49				

Sample ID: MB-2392	SampType: MBLK	TestCode: VOC_W	Units: µg/L
Client ID: PBW	Batch ID: A2392	TestNo: SW8260B	
Prep Date: 10/13/2017	RunNo: 1911	SeqNo: 47013	
Analysis Date: 10/13/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1710060
 17-Oct-17

Client: CH2M Hill
Project: DSFP Norwalk

TestCode: VOC_W

Sample ID: MB-2392	SampType: MBLK	TestCode: VOC_W	Units: µg/L
Client ID: PBW	Batch ID: A2392	TestNo: SW8260B	
Prep Date: 10/13/2017	RunNo: 1911	SeqNo: 47013	
Analysis Date: 10/13/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	1									
Chloromethane	ND	2									
Vinyl chloride	ND	1									
Chloroethane	ND	1									
Bromomethane	ND	2									
Trichlorofluoromethane	ND	1									
Acetone	ND	10									
1,1-Dichloroethene	ND	1									
Tertiary Butyl Alcohol (TBA)	ND	10									
Dichloromethane	ND	2									
Freon-113	ND	1									
Carbon disulfide	ND	2.5									
trans-1,2-Dichloroethene	ND	1									
Methyl tert-butyl ether (MTBE)	ND	0.25									
1,1-Dichloroethane	ND	1									
Vinyl acetate	ND	50									
2-Butanone (MEK)	ND	10									
Di-isopropyl Ether (DIPE)	ND	1									
cis-1,2-Dichloroethene	ND	1									
Bromochloromethane	ND	1									
Chloroform	ND	1									
Ethyl Tertiary Butyl Ether (ETBE)	ND	1									
2,2-Dichloropropane	ND	1									
1,2-Dichloroethane	ND	1									
1,1,1-Trichloroethane	ND	1									
1,1-Dichloropropene	ND	1									
Carbon tetrachloride	ND	1									
Benzene	ND	0.25									
Tertiary Amyl Methyl Ether (TAME)	ND	1									
Dibromomethane	ND	1									
1,2-Dichloropropane	ND	1									
Trichloroethene	ND	1									
Bromodichloromethane	ND	1									
4-Methyl-2-pentanone (MIBK)	ND	2.5									
cis-1,3-Dichloropropene	ND	1									
trans-1,3-Dichloropropene	ND	1									
1,1,2-Trichloroethane	ND	1									
Toluene	ND	0.25									
1,3-Dichloropropane	ND	1									
2-Hexanone	ND	5									

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



Client: CH2M Hill
Project: DSFP Norwalk

TestCode: VOC_W

Sample ID: MB-2392	SampType: MBLK	TestCode: VOC_W	Units: µg/L
Client ID: PBW	Batch ID: A2392	TestNo: SW8260B	
Prep Date: 10/13/2017	RunNo: 1911	SeqNo: 47013	
Analysis Date: 10/13/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloromethane	ND	1									
1,2-Dibromoethane (EDB)	ND	2									
Tetrachloroethene	ND	1									
1,1,1,2-Tetrachloroethane	ND	1									
Chlorobenzene	ND	1									
Ethylbenzene	ND	0.25									
m,p-Xylene	ND	0.25									
Bromoform	ND	1									
Xylenes, Total	ND	0.25									
Styrene	ND	1									
o-Xylene	ND	0.25									
1,1,2,2-Tetrachloroethane	ND	1									
1,2,3-Trichloropropane	ND	2									
Isopropylbenzene	ND	1									
Bromobenzene	ND	1									
n-Propylbenzene	ND	1									
4-Chlorotoluene	ND	1									
2-Chlorotoluene	ND	1									
1,3,5-Trimethylbenzene	ND	1									
tert-Butylbenzene	ND	1									
1,2,4-Trimethylbenzene	ND	1									
sec-Butylbenzene	ND	1									
1,3-Dichlorobenzene	ND	1									
1,4-Dichlorobenzene	ND	1									
4-Isopropyltoluene	ND	1									
1,2-Dichlorobenzene	ND	1									
n-Butylbenzene	ND	1									
1,2-Dibromo-3-chloropropane (DBCP)	ND	3									
1,2,4-Trichlorobenzene	ND	2									
Naphthalene	ND	2									
1,2,3-Trichlorobenzene	ND	2									
Surr: 1,2-Dichloroethane-d4	10		10		101	69.51	130.49				
Surr: Toluene-d8	11		10		106	69.51	130.49				
Surr: 4-Bromofluorobenzene	12		10		120	69.51	130.49				

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1710060

17-Oct-17

Client: CH2M Hill
Project: DSFP Norwalk

TestCode: VOC_W

Sample ID: LCS-2392	SampType: LCS	TestCode: VOC_W	Units: µg/L
Client ID: LCSW	Batch ID: A2392	TestNo: SW8260B	
Prep Date: 10/13/2017	RunNo: 1911	SeqNo: 47012	
Analysis Date: 10/13/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	11.5	1	10	0	115	68.51	130.49				
Chloromethane	8.84	2	10	0	88.4	39.51	145.49				
Vinyl chloride	8.86	1	10	0	88.6	41.51	157.49				
Chloroethane	16.5	1	10	0	165	69.51	130.49				S
Bromomethane	7.84	2	10	0	78.4	13.51	162.49				
Trichlorofluoromethane	10.5	1	10	0	105	45.51	154.49				
Acetone	179	10	200	0	89.7	21.51	188.49				
1,1-Dichloroethene	8.61	1	10	0	86.1	69.51	130.49				
Tertiary Butyl Alcohol (TBA)	87.3	10	100	0	87.3	69.51	130.49				
Dichloromethane	8.67	2	10	0	86.7	65.51	135.49				
Freon-113	10.5	1	10	0	105	69.51	131.49				
trans-1,2-Dichloroethene	9.33	1	10	0	93.3	69.51	131.49				
Methyl tert-butyl ether (MTBE)	8.66	0.25	10	0	86.6	68.51	134.49				
1,1-Dichloroethane	9.37	1	10	0	93.7	69.51	130.49				
2-Butanone (MEK)	153	10	200	0	76.5	25.51	183.49				
Di-isopropyl Ether (DIPE)	8.67	1	10	0	86.7	48.51	147.49				
cis-1,2-Dichloroethene	8.44	1	10	0	84.4	69.51	130.49				
Bromochloromethane	9.12	1	10	0	91.2	57.51	147.49				
Chloroform	8.57	1	10	0	85.7	39.51	145.49				
Ethyl Tertiary Butyl Ether (ETBE)	9.1	1	10	0	91.0	69.51	130.49				
2,2-Dichloropropane	11.9	1	10	0	119	25.51	183.49				
1,2-Dichloroethane	9.7	1	10	0	97.0	69.51	130.49				
1,1,1-Trichloroethane	10.3	1	10	0	102	69.51	130.49				
1,1-Dichloropropene	8.64	1	10	0	86.4	53.51	135.49				
Carbon tetrachloride	9.31	1	10	0	93.1	69.51	130.49				
Benzene	9.18	0.25	10	0	91.8	69.51	130.49				
Tertiary Amyl Methyl Ether (TAME)	9.13	1	10	0	91.3	47.51	148.49				
Dibromomethane	9.11	1	10	0	91.1	31.51	145.49				
1,2-Dichloropropane	9.59	1	10	0	95.9	69.51	134.49				
Trichloroethene	8.33	1	10	0	83.3	45.51	154.49				
Bromodichloromethane	8.45	1	10	0	84.5	59.51	144.49				
4-Methyl-2-pentanone (MIBK)	19.8	2.5	25	0	79.2	21.51	188.49				
cis-1,3-Dichloropropene	8.8	1	10	0	88.0	68.51	133.49				
trans-1,3-Dichloropropene	10.6	1	10	0	106	69.51	131.49				
1,1,2-Trichloroethane	9.7	1	10	0	97.0	69.51	130.49				
Toluene	9.03	0.25	10	0	90.3	69.51	132.49				
1,3-Dichloropropane	10.2	1	10	0	102	69.51	130.49				
2-Hexanone	93.2	5	100	0	93.2	69.51	132.49				
Dibromochloromethane	9.96	1	10	0	99.6	69.51	130.49				
1,2-Dibromoethane (EDB)	20.7	2	20	0	103	69.51	131.49				

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1710060

17-Oct-17

Client: CH2M Hill
Project: DSFP Norwalk

TestCode: VOC_W

Sample ID: LCS-2392	SampType: LCS	TestCode: VOC_W	Units: µg/L
Client ID: LCSW	Batch ID: A2392	TestNo: SW8260B	
Prep Date: 10/13/2017	RunNo: 1911	SeqNo: 47012	
Analysis Date: 10/13/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	7.88	1	10	0	78.8	69.51	130.49				
1,1,1,2-Tetrachloroethane	10.5	1	10	0	105	69.51	135.49				
Chlorobenzene	9.15	1	10	0	91.5	37.51	156.49				
Ethylbenzene	10.2	0.25	10	0	102	69.51	136.49				
m,p-Xylene	9.72	0.25	10	0	97.2	62.51	137.49				
Bromoform	8.67	1	10	0	86.7	13.51	162.49				
Xylenes, Total	18.2	0.25	20	0	91.0	49.51	200.49				
Styrene	8.28	1	10	0	82.8	54.51	144.49				
o-Xylene	8.48	0.25	10	0	84.8	69.51	132.49				
1,1,2,2-Tetrachloroethane	10.8	1	10	0	108	69.51	130.49				
1,2,3-Trichloropropane	21.7	2	20	0	108	61.51	131.49				
Isopropylbenzene	8.5	1	10	0	85.0	64.51	139.49				
Bromobenzene	9.09	1	10	0	90.9	69.51	133.49				
n-Propylbenzene	10.7	1	10	0	107	38.51	149.49				
4-Chlorotoluene	10.9	1	10	0	109	39.51	161.49				
2-Chlorotoluene	10.8	1	10	0	108	47.51	157.49				
1,3,5-Trimethylbenzene	11.3	1	10	0	113	69.51	130.49				
tert-Butylbenzene	10.7	1	10	0	107	62.51	139.49				
1,2,4-Trimethylbenzene	11.5	1	10	0	115	66.51	130.49				
sec-Butylbenzene	10.1	1	10	0	101	54.51	144.49				
1,3-Dichlorobenzene	10.6	1	10	0	106	69.51	130.49				
1,4-Dichlorobenzene	10.6	1	10	0	106	69.51	130.49				
4-Isopropyltoluene	10.8	1	10	0	108	58.51	140.49				
1,2-Dichlorobenzene	10.2	1	10	0	102	69.51	133.49				
n-Butylbenzene	10.3	1	10	0	104	68.51	134.49				
1,2-Dibromo-3-chloropropane (DBCP)	47.8	3	50	0	95.6	69.51	131.49				
1,2,4-Trichlorobenzene	9.43	2	10	0	94.3	69.51	133.49				
Naphthalene	9.43	2	10	0	94.3	69.51	130.49				
1,2,3-Trichlorobenzene	9.18	2	10	0	91.8	69.51	130.49				
Surr: 1,2-Dichloroethane-d4	10		10		100	69.51	130.49				
Surr: Toluene-d8	10.5		10		105	69.51	130.49				
Surr: 4-Bromofluorobenzene	11.2		10		112	69.51	130.49				

Sample ID: 1710060-16AMSD	SampType: MSD	TestCode: VOC_W	Units: µg/L
Client ID: GMW-O-1MSD	Batch ID: A2392	TestNo: SW8260B	
Prep Date: 10/13/2017	RunNo: 1911	SeqNo: 47047	
Analysis Date: 10/13/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1710060

17-Oct-17

Client: CH2M Hill
Project: DSFP Norwalk

TestCode: VOC_W

Sample ID: 1710060-16AMSD	SampType: MSD	TestCode: VOC_W	Units: µg/L
Client ID: GMW-O-1MSD	Batch ID: A2392	TestNo: SW8260B	
Prep Date: 10/13/2017	RunNo: 1911	SeqNo: 47047	
Analysis Date: 10/13/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	56.8	5	50	0	114	11.51	150.49	56.5	0.56	30	
Chloromethane	50.4	10	50	0	101	25.51	146.49	47.2	6.5	30	
Vinyl chloride	48.3	5	50	0	96.6	45.51	142.49	46.5	3.7	30	
Chloroethane	91.1	5	50	0	182	24.51	164.49	91.9	0.9	30	S
Bromomethane	50.8	10	50	0	102	9.51	172.49	38.7	27	30	
Trichlorofluoromethane	53.5	5	50	0	107	31.51	164.49	53.2	0.56	30	
Acetone	975	50	1000	0	97.5	9.51	188.49	950	2.5	30	
1,1-Dichloroethene	44.8	5	50	0	89.6	61.51	133.49	44.1	1.5	30	
Tertiary Butyl Alcohol (TBA)	486	50	500	0	97.3	43.51	155.49	468	3.9	30	
Dichloromethane	45.9	10	50	0	91.7	68.51	130.49	44.9	2	30	
Freon-113	53	5	50	0	106	55.51	144.49	52.8	0.38	30	
trans-1,2-Dichloroethene	49	5	50	0	97.9	66.51	131.49	47.6	2.8	30	
Methyl tert-butyl ether (MTBE)	46.7	1.25	50	0	93.3	55.51	140.49	45.2	3.1	30	
1,1-Dichloroethane	49.5	5	50	0	99.0	66.51	130.49	48.4	2.2	30	
2-Butanone (MEK)	816	50	1000	0	81.6	25.51	183.49	799	2.2	30	
Di-isopropyl Ether (DIPE)	45.9	5	50	0	91.7	58.51	138.49	44.9	2.2	30	
cis-1,2-Dichloroethene	44.1	5	50	0	88.3	69.51	130.49	43.3	2	30	
Bromochloromethane	48.6	5	50	0	97.1	69.51	134.49	47.5	2.3	30	
Chloroform	44.9	5	50	0	89.9	68.51	130.49	44.6	0.78	30	
Ethyl Tertiary Butyl Ether (ETBE)	48.3	5	50	0	96.7	61.51	135.49	47.6	1.6	30	
2,2-Dichloropropane	58.3	5	50	0	117	43.51	149.49	57.6	1.3	30	
1,2-Dichloroethane	50.1	5	50	0	100	63.51	139.49	49.5	1.1	30	
1,1,1-Trichloroethane	53.1	5	50	0	106	64.51	139.49	52.2	1.6	30	
1,1-Dichloropropene	45.3	5	50	0	90.5	67.51	134.49	44.4	1.9	30	
Carbon tetrachloride	49.1	5	50	0	98.2	55.51	146.49	48.1	2	30	
Benzene	48.5	1.25	50	0	97.1	66.51	134.49	47.3	2.6	30	
Tertiary Amyl Methyl Ether (TAME)	48.8	5	50	0	97.6	63.51	135.49	47.3	3.2	30	
Dibromomethane	48.2	5	50	0	96.4	69.51	132.49	47.2	2.1	30	
1,2-Dichloropropane	50	5	50	0	100	68.51	134.49	49.1	1.8	30	
Trichloroethene	43.9	5	50	0	87.9	67.51	138.49	43.3	1.6	30	
Bromodichloromethane	45	5	50	0	90.0	57.51	147.49	43.7	2.9	30	
4-Methyl-2-pentanone (MIBK)	106	12.5	125	0	84.6	48.51	140.49	104	2	30	
cis-1,3-Dichloropropene	43.4	5	50	0	86.8	60.51	130.49	42.7	1.7	30	
trans-1,3-Dichloropropene	55.7	5	50	0	111	61.51	131.49	53.6	3.9	30	
1,1,2-Trichloroethane	53.2	5	50	0	106	69.51	131.49	51.4	3.3	30	
Toluene	47.3	1.25	50	0	94.7	37.51	130.49	46.2	2.4	30	
1,3-Dichloropropane	55.2	5	50	0	110	69.51	130.49	53.3	3.6	30	
2-Hexanone	502	25	500	0	100	24.51	157.49	487	3.1	30	
Dibromochloromethane	53.2	5	50	0	106	48.51	147.49	51.7	2.9	30	
1,2-Dibromoethane (EDB)	111	10	100	0	111	69.51	131.49	107	3.3	30	

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: **1710060**

17-Oct-17

Client: CH2M Hill
Project: DSFP Norwalk

TestCode: VOC_W

Sample ID: 1710060-16AMSD	SampType: MSD		TestCode: VOC_W		Units: µg/L						
Client ID: GMW-O-1MSD	Batch ID: A2392		TestNo: SW8260B								
Prep Date: 10/13/2017	RunNo: 1911		SeqNo: 47047								
Analysis Date: 10/13/2017											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	41.7	5	50	0	83.3	62.51	134.49	40.5	2.9	30	
1,1,1,2-Tetrachloroethane	56.1	5	50	0	112	69.51	133.49	54.1	3.4	30	
Chlorobenzene	49.8	5	50	0	99.5	69.51	130.49	48	3.6	30	
Ethylbenzene	54.8	1.25	50	0	110	69.51	130.49	53.1	3.2	30	
m,p-Xylene	52.2	1.25	50	0	104	64.51	139.49	50.4	3.5	30	
Bromoform	47.1	5	50	0	94.1	59.51	144.49	44.4	5.8	30	
Xylenes, Total	97.8	1.25	100	0	97.8	69.51	130.49	93.9	4.1	30	
Styrene	44.4	5	50	0	88.8	52.51	144.49	42.7	3.9	30	
o-Xylene	45.6	1.25	50	0	91.2	68.51	130.49	43.5	4.8	30	
1,1,2,2-Tetrachloroethane	55.9	5	50	0	112	66.51	134.49	54.9	1.8	30	
1,2,3-Trichloropropane	112	10	100	0	112	69.51	130.49	111	0.42	30	
Isopropylbenzene	46.3	5	50	0	92.6	63.51	136.49	44.2	4.6	30	
Bromobenzene	49.3	5	50	0	98.7	68.51	130.49	47.3	4.2	30	
n-Propylbenzene	55.1	5	50	0	110	64.51	132.49	53.8	2.5	30	
4-Chlorotoluene	56.6	5	50	0	113	68.51	132.49	55.5	1.9	30	
2-Chlorotoluene	55.7	5	50	0	111	68.51	130.49	54.2	2.8	30	
1,3,5-Trimethylbenzene	58.2	5	50	0	116	63.51	135.49	56.9	2.2	30	
tert-Butylbenzene	56.3	5	50	0	113	62.51	139.49	54.5	3.3	30	
1,2,4-Trimethylbenzene	59.1	5	50	0	118	61.51	135.49	57.5	2.7	30	
sec-Butylbenzene	53.8	5	50	0	108	67.51	132.49	51.6	4	30	
1,3-Dichlorobenzene	54.8	5	50	0	110	69.51	130.49	53.1	3.2	30	
1,4-Dichlorobenzene	54.8	5	50	0	110	69.51	130.49	53.1	3.1	30	
4-Isopropyltoluene	55.5	5	50	0	111	39.51	161.49	54.1	2.5	30	
1,2-Dichlorobenzene	52.9	5	50	0	106	69.51	130.49	51.2	3.2	30	
n-Butylbenzene	53.4	5	50	0	107	57.51	135.49	51.5	3.7	30	
1,2-Dibromo-3-chloropropane (DBCP)	262	15	250	0	105	62.51	131.49	243	7.5	30	
1,2,4-Trichlorobenzene	55.8	10	50	0	112	56.51	134.49	45.6	20	30	
Naphthalene	61.8	10	50	0	124	30.51	157.49	44.5	33	30	R
1,2,3-Trichlorobenzene	64.5	10	50	0	129	51.51	138.49	40	47	30	R
Surr: 1,2-Dichloroethane-d4	48.8		50		97.6	69.51	130.49	49.8	0	0	
Surr: Toluene-d8	53.4		50		107	69.51	130.49	52.5	0	0	
Surr: 4-Bromofluorobenzene	54		50		108	69.51	130.49	54.6	0	0	

Sample ID: 1710060-16AMS	SampType: MS		TestCode: VOC_W		Units: µg/L						
Client ID: GMW-O-1MS	Batch ID: A2392		TestNo: SW8260B								
Prep Date: 10/13/2017	RunNo: 1911		SeqNo: 47046								
Analysis Date: 10/13/2017											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



Client: CH2M Hill
Project: DSFP Norwalk

TestCode: VOC_W

Sample ID: 1710060-16AMS	SampType: MS	TestCode: VOC_W	Units: µg/L
Client ID: GMW-O-1MS	Batch ID: A2392	TestNo: SW8260B	
Prep Date: 10/13/2017	RunNo: 1911	SeqNo: 47046	
Analysis Date: 10/13/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	56.5	5	50	0	113	11.51	150.49				
Chloromethane	47.2	10	50	0	94.3	25.51	146.49				
Vinyl chloride	46.5	5	50	0	93.1	45.51	142.49				
Chloroethane	91.9	5	50	0	184	24.51	164.49				S
Bromomethane	38.7	10	50	0	77.3	9.51	172.49				
Trichlorofluoromethane	53.2	5	50	0	106	31.51	164.49				
Acetone	950	50	1000	0	95.0	9.51	188.49				
1,1-Dichloroethene	44.1	5	50	0	88.2	61.51	133.49				
Tertiary Butyl Alcohol (TBA)	468	50	500	0	93.5	43.51	155.49				
Dichloromethane	44.9	10	50	0	89.9	68.51	130.49				
Freon-113	52.8	5	50	0	106	55.51	144.49				
trans-1,2-Dichloroethene	47.6	5	50	0	95.2	66.51	131.49				
Methyl tert-butyl ether (MTBE)	45.2	1.25	50	0	90.5	55.51	140.49				
1,1-Dichloroethane	48.4	5	50	0	96.9	66.51	130.49				
2-Butanone (MEK)	799	50	1000	0	79.9	25.51	183.49				
Di-isopropyl Ether (DIPE)	44.9	5	50	0	89.8	58.51	138.49				
cis-1,2-Dichloroethene	43.3	5	50	0	86.5	69.51	130.49				
Bromochloromethane	47.5	5	50	0	94.9	69.51	134.49				
Chloroform	44.6	5	50	0	89.2	68.51	130.49				
Ethyl Tertiary Butyl Ether (ETBE)	47.6	5	50	0	95.1	61.51	135.49				
2,2-Dichloropropane	57.6	5	50	0	115	43.51	149.49				
1,2-Dichloroethane	49.5	5	50	0	99.0	63.51	139.49				
1,1,1-Trichloroethane	52.2	5	50	0	104	64.51	139.49				
1,1-Dichloropropene	44.4	5	50	0	88.8	67.51	134.49				
Carbon tetrachloride	48.1	5	50	0	96.2	55.51	146.49				
Benzene	47.3	1.25	50	0	94.6	66.51	134.49				
Tertiary Amyl Methyl Ether (TAME)	47.3	5	50	0	94.5	63.51	135.49				
Dibromomethane	47.2	5	50	0	94.4	69.51	132.49				
1,2-Dichloropropane	49.1	5	50	0	98.2	68.51	134.49				
Trichloroethene	43.3	5	50	0	86.5	67.51	138.49				
Bromodichloromethane	43.7	5	50	0	87.4	57.51	147.49				
4-Methyl-2-pentanone (MIBK)	104	12.5	125	0	83.0	48.51	140.49				
cis-1,3-Dichloropropene	42.7	5	50	0	85.3	60.51	130.49				
trans-1,3-Dichloropropene	53.6	5	50	0	107	61.51	131.49				
1,1,2-Trichloroethane	51.4	5	50	0	103	69.51	131.49				
Toluene	46.2	1.25	50	0	92.4	37.51	130.49				
1,3-Dichloropropane	53.3	5	50	0	107	69.51	130.49				
2-Hexanone	487	25	500	0	97.4	24.51	157.49				
Dibromochloromethane	51.7	5	50	0	103	48.51	147.49				
1,2-Dibromoethane (EDB)	107	10	100	0	107	69.51	131.49				

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



Alpha Analytical, Inc
255 Glendale Ave, #21
Sparks, Nevada 89431

TEL: (775) 355-1044 FAX: (775) 355-0406
Website: www.alpha-analytical.com

QC SUMMARY REPORT

WO#: 1710060

17-Oct-17

Client: CH2M Hill
Project: DSFP Norwalk

TestCode: VOC_W

Sample ID: 1710060-16AMS	SampType: MS	TestCode: VOC_W	Units: µg/L
Client ID: GMW-O-1MS	Batch ID: A2392	TestNo: SW8260B	
Prep Date: 10/13/2017	RunNo: 1911	SeqNo: 47046	
Analysis Date: 10/13/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	40.5	5	50	0	80.9	62.51	134.49				
1,1,1,2-Tetrachloroethane	54.1	5	50	0	108	69.51	133.49				
Chlorobenzene	48	5	50	0	96.0	69.51	130.49				
Ethylbenzene	53.1	1.25	50	0	106	69.51	130.49				
m,p-Xylene	50.4	1.25	50	0	101	64.51	139.49				
Bromoform	44.4	5	50	0	88.8	59.51	144.49				
Xylenes, Total	93.9	1.25	100	0	93.9	69.51	130.49				
Styrene	42.7	5	50	0	85.4	52.51	144.49				
o-Xylene	43.5	1.25	50	0	86.9	68.51	130.49				
1,1,2,2-Tetrachloroethane	54.9	5	50	0	110	66.51	134.49				
1,2,3-Trichloropropane	111	10	100	0	111	69.51	130.49				
Isopropylbenzene	44.2	5	50	0	88.5	63.51	136.49				
Bromobenzene	47.3	5	50	0	94.6	68.51	130.49				
n-Propylbenzene	53.8	5	50	0	108	64.51	132.49				
4-Chlorotoluene	55.5	5	50	0	111	68.51	132.49				
2-Chlorotoluene	54.2	5	50	0	108	68.51	130.49				
1,3,5-Trimethylbenzene	56.9	5	50	0	114	63.51	135.49				
tert-Butylbenzene	54.5	5	50	0	109	62.51	139.49				
1,2,4-Trimethylbenzene	57.5	5	50	0	115	61.51	135.49				
sec-Butylbenzene	51.6	5	50	0	103	67.51	132.49				
1,3-Dichlorobenzene	53.1	5	50	0	106	69.51	130.49				
1,4-Dichlorobenzene	53.1	5	50	0	106	69.51	130.49				
4-Isopropyltoluene	54.1	5	50	0	108	39.51	161.49				
1,2-Dichlorobenzene	51.2	5	50	0	102	69.51	130.49				
n-Butylbenzene	51.5	5	50	0	103	57.51	135.49				
1,2-Dibromo-3-chloropropane (DBCP)	243	15	250	0	97.4	62.51	131.49				
1,2,4-Trichlorobenzene	45.6	10	50	0	91.2	56.51	134.49				
Naphthalene	44.5	10	50	0	89.0	30.51	157.49				
1,2,3-Trichlorobenzene	40	10	50	0	80.0	51.51	138.49				
Surr: 1,2-Dichloroethane-d4	49.8		50		99.7	69.51	130.49				
Surr: Toluene-d8	52.5		50		105	69.51	130.49				
Surr: 4-Bromofluorobenzene	54.6		50		109	69.51	130.49				

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



Alpha Analytical, Inc
255 Glendale Ave, #21
Sparks, Nevada 89431
TEL: (775) 355-1044 FAX: (775) 355-0406
Website: www.alpha-analytical.com

Definition Only

WO#: 1710060

Date:

Definitions:

ND = Not Detected

C = Reported concentration includes additional compounds uncharacteristic of common fuels and lubricants.

D = Reporting Limits were increased due to high concentrations of non-target analytes.

H = Reporting Limits were increased due to the hydrocarbons present in the sample.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

K = DRO concentration may include contributions from lighter-end hydrocarbons (e.g. gasoline) that elute in the DRO range.

L = DRO concentration may include contributions from heavier-end hydrocarbons (e.g. motor oil) that elute in the DRO range.

O = Reporting Limits were increased due to sample foaming.

V = Reporting Limits were increased due to high concentrations of target analytes.

X = Reporting Limits were increased due to sample matrix interferences.

Z = DRO concentration may include contributions from lighter-end (e.g. gasoline) and heavier-end (e.g. motor oil) hydrocarbons that elute in the DRO range.

S50 = The analysis of the sample required a dilution such that the surrogate concentration was diluted below the laboratory acceptance criteria. The laboratory control sample was acceptable.

S51 = Surrogate recovery could not be determined due to the presence of co-eluting hydrocarbons.

S52 = Surrogate recovery was above laboratory acceptance limits. Probable matrix effect.

S53 = Surrogate recovery was below laboratory acceptance limits. Probable matrix effect.

S54 = Surrogate recovery was below laboratory acceptance limits.

S55 = Surrogate recovery was above laboratory acceptance limits.



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Website: www.alpha-analytical.com

Definition Only

WO#: **1710060**

Date:

Definitions:

Report CC's Benny Pataray
 Daniel Jablonski
 Eric Davis
 Krystle Remmen
 Vladimir Carino

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Ave, #21 Sparks, Nevada 89431
 TEL: (775) 355-1044 FAX: (775) 355-0406

CA

WorkOrder: CHH1710060
 Report Due By: 17-Oct-17
 EDD Required: YES

Report Attention: Daniel Jablonski

Client:

CH2M Hill
 1000 Wilshire Boulevard
 Los Angeles, CA 90017

TEL: 2132288271
 FAX: 7144242135
 ProjectNo: DSFP Norwalk

Date Received: 06-Oct-17

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles			Requested Tests						Sample Remarks		
				Alpha	Sub	TAT	TPHE_W	TPH/P_W	VOC_W						
CHH1710060-01	TB-2	AQ	10/4/2017 8:00:00 AM	2	0	7			A - Partial						Reno TB 08/01/17
CHH1710060-02	GMW-O-3	AQ	10/4/2017 8:36:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710060-03	GMW-O-2	AQ	10/4/2017 9:40:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710060-04	GMW-O-4	AQ	10/4/2017 10:38:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710060-05	GMW-O-5	AQ	10/4/2017 11:23:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710060-06	GMW-O-17	AQ	10/4/2017 12:05:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710060-07	EXP-1	AQ	10/4/2017 11:30:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710060-08	EXP-3	AQ	10/4/2017 12:10:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710060-09	GMW-13	AQ	10/4/2017 1:13:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710060-10	GMW-SF-7	AQ	10/4/2017 2:00:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						

Comments: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values.

	Signature	Print Name	Company	Date/Time
Logged in by:	<i>Elisabet Hernandez</i>	Elisabet Hernandez	Alpha Analytical, Inc.	10/04/17 12:50

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles			Requested Tests						Sample Remarks	
				Alpha	Sub	TAT	TPHE_W	TPH/P_W	VOC_W					
CHH1710060-11	MW-8	AQ	10/4/2017 2:38:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710060-12	MW-12	AQ	10/4/2017 3:25:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710060-13	EB-3	AQ	10/4/2017 3:35:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710060-14	GMW-O-9	AQ	10/4/2017 9:53:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710060-15	GMW-O-10	AQ	10/4/2017 10:37:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710060-16	GMW-O-1	AQ	10/4/2017 11:39:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710060-17	GMW-O-24	AQ	10/4/2017 12:33:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710060-18	GMW-39	AQ	10/4/2017 1:18:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710060-19	GMW-SF-8	AQ	10/4/2017 1:57:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710060-20	GMW-O-19	AQ	10/4/2017 2:38:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710060-21	GMW-O-16	AQ	10/4/2017 3:17:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710060-22	EB-4	AQ	10/4/2017 3:30:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					

Comments: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values.

Logged in by:	<i>Elisabet Hernandez</i>	Signature	<i>Elisabet Hernandez</i>	Print Name	Alpha Analytical, Inc.	Company	10/04/17 12:52	Date/Time
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NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB

Alpha Analytical COC 1 of 3

Billing Information:
Kinder Morgan
1100 Town and Country Rd.
Orange CA 95112

Kinder Morgan Norwalk
Report to:
Dan Jablonski
CH2MHILL
1000 Wilshire Blvd 21st floor
Los Angeles, CA 90017

CHAIN OF CUSTODY

CLIENT: Kinder Morgan
SITE: DFSP Norwalk
15306 Norwalk Blvd, Norwalk

SAMPLE I.D.	DATE	TIME	MATRIX AQ= Water	CONTAINERS			TPHg, TPHd (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)							ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
				#	Preservation	Type												
TB-2	10/4/17	0800	AQ	2	HCl	VOA		X										CHH1710060-01
GMW-0-3	10/4/17	0836	AQ	6	HCl	VOA	X	X										02
GMW-0-2	10/4/17	0940	AQ	6	HCl	VOA	X	X										03
GMW-0-4	10/4/17	1038	AQ	6	HCl	VOA	X	X										04
GMW-0-5	10/4/17	1123	AQ	6	HCl	VOA	X	X										05
GMW-0-17	10/4/17	1205	AQ	6	HCl	VOA	X	X										06
EXP-1	10/4/17	1130	AQ	6	HCl	VOA	X	X										07
EXP-3	10/4/17	1210	AQ	6	HCl	VOA	X	X										08
GMW-13	10/4/17	1313	AQ	6	HCl	VOA	X	X										09
GMW-SF-7	10/4/17	1400	AQ	6	HCl	VOA	X	X										10

SAMPLING COMPLETED: DATE 10/4/17 TIME: SAMPLING PERFORMED BY: Danny Rice RESULTS NEEDED NO LATER THAN: Standard

RELEASED BY: [Signature] TIME: 1635 RECEIVED BY: [Signature] DATE: 10/4/17 TIME: 1635

RELEASED BY: [Signature] TIME: RECEIVED BY: [Signature] DATE: 10-5-17 TIME: 1700

RELEASED BY: [Signature] TIME: 1700 RECEIVED BY: Elisabet Hernandez DATE: 10/4/17 TIME: 18:58

SHIPPED VIA: TIME SENT: COOLER #: Page 71 of 73

BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB

Alpha Analytical COC 2 of 3

Billing Information:
 Kinder Morgan
 1100 Town and Country Rd.
 Orange CA 95112

Kinder Morgan Norwalk
 Report to:
 Dan Jablonski
 CH2MHILL
 1000 Wilshire Blvd 21st floor
 Los Angeles, CA 90017

CHAIN OF CUSTODY

CLIENT Kinder Morgan

SITE DFSP Norwalk

15306 Norwalk Blvd, Norwalk

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS			TPHg, TPHd (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)							ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
			AQ= Water	#	Preservation	Type												
mw-8	10/4/17	1438	AQ	6	HCl	WA	X	X										CHH1710060
mw-12	10/4/17	1525	AQ	6	HCl	WA	X	X										↓ 12
EB-3	10/4/17	1535	AQ	6	HCl	WA	X	X										13

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED	NO LATER THAN
	10/4/17	1535	Danny Roca	Standard	
RELEASED BY	TIME	RECEIVED BY	DATE	TIME	
	1635		10/4/17	1635	
RELEASED BY	TIME	RECEIVED BY	DATE	TIME	
			10-5-17	1700	
RELEASED BY	TIME	RECEIVED BY	DATE	TIME	
	1800	Elvira Hernandez	10/06/17	12:52	
SHIPPED VIA	TIME SENT	COOLER #			

BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB

Alpha Analytical COC 3 of 3

Billing Information:
 Kinder Morgan
 1100 Town and Country Rd.
 Orange CA 95112

Kinder Morgan Norwalk
 Report to:
 Dan Jablonski
 CH2MHILL
 1000 Wilshire Blvd 21st floor
 Los Angeles, CA 90017

CHAIN OF CUSTODY

CLIENT: Kinder Morgan
 SITE: DFSP Norwalk
 15306 Norwalk Blvd, Norwalk

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS			TPHg, TPHd (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)						ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
			AQ= Water	#	Preservation	Type											
GMW-0-9	10/4/17	0953	AQ	6	HCL	VOA'S	✓	✓									CHH710060-14
GMW-0-10	10/4/17	1037					X	X									15
GMW-0-1	10/4/17	1139					X	X									16
GMW-0-24	10/4/17	1233					X	X									17
GMW-39	10/4/17	1318					X	X									18
GMW-SF-8	10/4/17	1357					X	X									19
GMW-0-19	10/4/17	1438					X	X									20
GMW-0-16	10/4/17	1517					X	X									21
GMW-0-17																	
EB-4	10/4/17	1530	AQ	6	HCL	VOA'S	X	X									22

SAMPLING COMPLETED: 10/4/17 1635
 SAMPLING PERFORMED BY: Patrick Ho
 RESULTS NEEDED NO LATER THAN: Standard

RELEASED BY: [Signature] TIME: 1635 RECEIVED BY: [Signature] DATE: 10/4/17 TIME: 1635

RELEASED BY: [Signature] TIME: [Blank] RECEIVED BY: [Signature] DATE: 10-5-17 TIME: 1700

RELEASED BY: [Signature] TIME: 1800 RECEIVED BY: Elvira Hernandez DATE: 10/6/17 TIME: 12:52

SHIPPED VIA: [Blank] TIME SENT: [Blank] COOLER #: [Blank]



Alpha Analytical, Inc
255 Glendale Ave, #21
Sparks, Nevada 89431
TEL: (775) 355-1044 FAX: (775) 355-0406
Website: www.alpha-analytical.com

October 19, 2017

Eric Davis
CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
TEL: (213) 228-8271
FAX (714) 424-2135

RE: DSFP Norwalk

Dear Eric Davis:

Order No.: CHH1710059

There were no problems with the analytical events associated with this report unless noted.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink that reads "Roger Scholl". The signature is written in a cursive, flowing style.

Roger Scholl
Laboratory Director
255 Glendale Ave, #21
Sparks, Nevada 89431



Alpha Analytical, Inc.

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill **Collection Date:** 10/5/2017 8:00:00 AM
Project: DSFP Norwalk
Lab ID: 1710059-01 **Matrix:** AQUEOUS
Client Sample ID TB-3

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Dichlorodifluoromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/17/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Tetrachloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-01
Client Sample ID TB-3

Collection Date: 10/5/2017 8:00:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Styrene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	114	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: Toluene-d8	100	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	96	70-130		%Rec	10/17/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

Analytical Report

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-02
Client Sample ID HL-2

Collection Date: 10/5/2017 8:54:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	0.27	0.050		mg/L	10/8/2017	TPH-E by EPA 8015C
Surr: Nonane	100	35-151		%Rec	10/8/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/17/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	110	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: Toluene-d8	100	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	96	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Acetone	10	10		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/17/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-02
Client Sample ID HL-2

Collection Date: 10/5/2017 8:54:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	110	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: Toluene-d8	100	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	96	70-130		%Rec	10/17/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

Analytical Report

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-03
Client Sample ID GMW-26

Collection Date: 10/5/2017 9:36:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/8/2017	TPH-E by EPA 8015C
Surr: Nonane	107	35-151		%Rec	10/8/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/17/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	118	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: Toluene-d8	100	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	95	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	12	10		µg/L	10/17/201	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/17/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	2.6	1.0		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloroethane	1.4	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-03
Client Sample ID GMW-26

Collection Date: 10/5/2017 9:36:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	118	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: Toluene-d8	100	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	95	70-130		%Rec	10/17/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-04
Client Sample ID HL-3

Collection Date: 10/5/2017 10:20:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/8/2017	TPH-E by EPA 8015C
Surr: Nonane	91	35-151		%Rec	10/8/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/17/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	111	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: Toluene-d8	101	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/17/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-04
Client Sample ID HL-3

Collection Date: 10/5/2017 10:20:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	111	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: Toluene-d8	101	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	10/17/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-05
Client Sample ID GWR-1R

Collection Date: 10/5/2017 11:07:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/8/2017	TPH-E by EPA 8015C
Surr: Nonane	81	35-151		%Rec	10/8/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/17/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: Toluene-d8	101	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	99	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	76	10		µg/L	10/17/201	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/17/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	5.2	1.0		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloroethane	0.96	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-05
Client Sample ID GWR-1R

Collection Date: 10/5/2017 11:07:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: Toluene-d8	101	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	99	70-130		%Rec	10/17/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-06
Client Sample ID GMW-8

Collection Date: 10/5/2017 12:14:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	0.27	0.050	L	mg/L	10/8/2017	TPH-E by EPA 8015C
Surr: Nonane	103	35-151		%Rec	10/8/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/17/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: Toluene-d8	102	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	99	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/17/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-06
Client Sample ID GMW-8

Collection Date: 10/5/2017 12:14:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: Toluene-d8	102	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	99	70-130		%Rec	10/17/201	VOCs by EPA 8260B



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Analytical Report

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-07
Client Sample ID GMW-36

Collection Date: 10/5/2017 1:05:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	0.34	0.050		mg/L	10/8/2017	TPH-E by EPA 8015C
Surr: Nonane	101	35-151		%Rec	10/8/2017	TPH-E by EPA 8015C
TPH-P (GRO)	0.63	0.10		mg/L	10/17/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	112	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: Toluene-d8	99	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	94	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloromethane	ND	4.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl chloride	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromomethane	ND	4.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Acetone	ND	20		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	2,500	30	*	µg/L	10/18/201	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Carbon disulfide	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	27	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl acetate	ND	100		µg/L	10/17/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	20		µg/L	10/17/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloroethane	1.8	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Benzene	48	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	1.8	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Toluene	1.3	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Hexanone	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	4.0		µg/L	10/17/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-07
Client Sample ID GMW-36

Collection Date: 10/5/2017 1:05:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethylbenzene	25	0.50		µg/L	10/17/201	VOCs by EPA 8260B
m,p-Xylene	7.3	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Xylenes, Total	14	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
o-Xylene	6.8	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	4.0		µg/L	10/17/201	VOCs by EPA 8260B
Isopropylbenzene	4.0	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Propylbenzene	14	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	4.0	1.0		µg/L	10/17/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	25	1.0		µg/L	10/17/201	VOCs by EPA 8260B
sec-Butylbenzene	2.5	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Isopropyltoluene	1.1	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Butylbenzene	2.5	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	6.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	4.0		µg/L	10/17/201	VOCs by EPA 8260B
Naphthalene	17	10		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	4.0		µg/L	10/17/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	112	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: Toluene-d8	99	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	94	70-130		%Rec	10/17/201	VOCs by EPA 8260B

NOTES:

*This analyte was analyzed separately in order to achieve lower reporting limits for the other analytes.
Some Reporting Limits were increased due to sample foaming.



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-08
Client Sample ID MW-18 (Mid)

Collection Date: 10/5/2017 1:54:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	0.12	0.050		mg/L	10/8/2017	TPH-E by EPA 8015C
Surr: Nonane	107	35-151		%Rec	10/8/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/17/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: Toluene-d8	101	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	99	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	13	10		µg/L	10/17/201	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	0.94	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/17/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	1.7	1.0		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

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 225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-08
Client Sample ID MW-18 (Mid)

Collection Date: 10/5/2017 1:54:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: Toluene-d8	101	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	99	70-130		%Rec	10/17/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

Analytical Report

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-09
Client Sample ID P2-2

Collection Date: 10/5/2017 2:45:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	0.44	0.050		mg/L	10/8/2017	TPH-E by EPA 8015C
Surr: Nonane	103	35-151		%Rec	10/8/2017	TPH-E by EPA 8015C
TPH-P (GRO)	0.12	0.050		mg/L	10/17/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	112	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: Toluene-d8	97	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	97	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Acetone	12	10		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	1.1	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/17/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-09
Client Sample ID P2-2

Collection Date: 10/5/2017 2:45:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
m,p-Xylene	1.9	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Xylenes, Total	2.6	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
o-Xylene	0.71	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	4.7	1.0		µg/L	10/17/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	9.7	1.0		µg/L	10/17/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Butylbenzene	1.2	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	112	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: Toluene-d8	97	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	97	70-130		%Rec	10/17/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

Analytical Report

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-10
Client Sample ID DUP-2

Collection Date: 10/5/2017

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/8/2017	TPH-E by EPA 8015C
Surr: Nonane	108	35-151		%Rec	10/8/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/17/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	113	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: Toluene-d8	99	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	96	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	100	10		µg/L	10/17/201	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/17/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	5.6	1.0		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloroethane	1.0	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-10
Client Sample ID DUP-2

Collection Date: 10/5/2017

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	113	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: Toluene-d8	99	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	96	70-130		%Rec	10/17/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-11
Client Sample ID GMW-4R

Collection Date: 10/5/2017 8:48:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	0.070	0.050		mg/L	10/8/2017	TPH-E by EPA 8015C
Surr: Nonane	105	35-151		%Rec	10/8/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/17/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	112	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: Toluene-d8	99	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	95	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	0.56	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/17/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Benzene	1.3	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-11
Client Sample ID GMW-4R

Collection Date: 10/5/2017 8:48:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Isopropylbenzene	1.1	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	112	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: Toluene-d8	99	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	95	70-130		%Rec	10/17/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill **Collection Date:** 10/5/2017 9:33:00 AM
Project: DSFP Norwalk
Lab ID: 1710059-12 **Matrix:** AQUEOUS
Client Sample ID GMW-14R

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	0.071	0.050		mg/L	10/8/2017	TPH-E by EPA 8015C
Surr: Nonane	124	35-151		%Rec	10/8/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/17/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	112	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: Toluene-d8	100	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	96	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/17/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-12
Client Sample ID GMW-14R

Collection Date: 10/5/2017 9:33:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	112	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: Toluene-d8	100	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	96	70-130		%Rec	10/17/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-13
Client Sample ID MW-15R

Collection Date: 10/5/2017 10:15:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	0.079	0.050		mg/L	10/8/2017	TPH-E by EPA 8015C
Surr: Nonane	100	35-151		%Rec	10/8/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/17/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	112	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: Toluene-d8	100	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	98	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	0.56	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/17/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-13
Client Sample ID MW-15R

Collection Date: 10/5/2017 10:15:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	112	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: Toluene-d8	100	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	98	70-130		%Rec	10/17/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

Analytical Report

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-14
Client Sample ID MW-9

Collection Date: 10/5/2017 11:03:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	0.34	0.050		mg/L	10/8/2017	TPH-E by EPA 8015C
Surr: Nonane	101	35-151		%Rec	10/8/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.10	O	mg/L	10/17/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	112	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: Toluene-d8	99	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	93	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloromethane	ND	4.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl chloride	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromomethane	ND	4.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Acetone	ND	20		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	22	10		µg/L	10/17/201	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Carbon disulfide	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	2.6	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl acetate	ND	100		µg/L	10/17/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	20		µg/L	10/17/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Hexanone	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	4.0		µg/L	10/17/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-14
Client Sample ID MW-9

Collection Date: 10/5/2017 11:03:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	4.0		µg/L	10/17/201	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	6.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	4.0		µg/L	10/17/201	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	4.0		µg/L	10/17/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	112	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: Toluene-d8	99	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	93	70-130		%Rec	10/17/201	VOCs by EPA 8260B

NOTES:

Some Reporting Limits were increased due to sample foaming.



Alpha Analytical, Inc.

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-15
Client Sample ID PZ-5

Collection Date: 10/5/2017 12:03:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	0.27	0.050		mg/L	10/9/2017	TPH-E by EPA 8015C
Surr: Nonane	101	35-151		%Rec	10/9/2017	TPH-E by EPA 8015C
TPH-P (GRO)	0.91	0.20		mg/L	10/17/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: Toluene-d8	115	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	95	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloromethane	ND	8.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl chloride	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloroethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromomethane	ND	8.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Acetone	ND	40		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	30,000	400	*	µg/L	10/17/201	VOCs by EPA 8260B
Dichloromethane	ND	8.0		µg/L	10/17/201	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Carbon disulfide	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	23	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl acetate	ND	200		µg/L	10/17/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	40		µg/L	10/17/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromochloromethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloroform	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloroethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Benzene	1.7	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromomethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichloroethene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromodichloromethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Toluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Hexanone	ND	20		µg/L	10/17/201	VOCs by EPA 8260B
Dibromochloromethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	8.0		µg/L	10/17/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-15
Client Sample ID PZ-5

Collection Date: 10/5/2017 12:03:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Chlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethylbenzene	20	1.0		µg/L	10/17/201	VOCs by EPA 8260B
m,p-Xylene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromoform	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Xylenes, Total	1.6	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Styrene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
o-Xylene	1.6	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	8.0		µg/L	10/17/201	VOCs by EPA 8260B
Isopropylbenzene	3.0	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Propylbenzene	6.6	2.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	10	2.0		µg/L	10/17/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Butylbenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	12		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	8.0		µg/L	10/17/201	VOCs by EPA 8260B
Naphthalene	30	10		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	8.0		µg/L	10/17/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: Toluene-d8	115	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	95	70-130		%Rec	10/17/201	VOCs by EPA 8260B

NOTES:

*This analyte was analyzed separately in order to achieve lower reporting limits for the other analytes.
Reporting Limits were increased due to sample foaming.



Alpha Analytical, Inc.

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill **Collection Date:** 10/5/2017 1:03:00 PM
Project: DSFP Norwalk
Lab ID: 1710059-16 **Matrix:** AQUEOUS
Client Sample ID GMW-28

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/9/2017	TPH-E by EPA 8015C
Surr: Nonane	101	35-151		%Rec	10/9/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/17/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	112	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: Toluene-d8	99	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	93	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	110	10		µg/L	10/17/201	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	0.88	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/17/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	24	1.0		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

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 225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-16
Client Sample ID GMW-28

Collection Date: 10/5/2017 1:03:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	112	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: Toluene-d8	99	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	93	70-130		%Rec	10/17/201	VOCs by EPA 8260B



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Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill **Collection Date:** 10/5/2017 1:51:00 PM
Project: DSFP Norwalk
Lab ID: 1710059-17 **Matrix:** AQUEOUS
Client Sample ID GMW-9

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	0.10	0.050		mg/L	10/9/2017	TPH-E by EPA 8015C
Surr: Nonane	100	35-151		%Rec	10/9/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/17/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	114	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: Toluene-d8	98	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	93	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Acetone	12	10		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	83	10		µg/L	10/17/201	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	0.62	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/17/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	4.7	1.0		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloroethane	0.56	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B



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Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-17
Client Sample ID GMW-9

Collection Date: 10/5/2017 1:51:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	114	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: Toluene-d8	98	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	93	70-130		%Rec	10/17/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

Analytical Report

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WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-18
Client Sample ID DUP-5

Collection Date: 10/5/2017

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	0.27	0.050		mg/L	10/9/2017	TPH-E by EPA 8015C
Surr: Nonane	100	35-151		%Rec	10/9/2017	TPH-E by EPA 8015C
TPH-P (GRO)	0.76	0.20		mg/L	10/18/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	99	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Surr: Toluene-d8	118	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	94	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Chloromethane	ND	8.0		µg/L	10/18/201	VOCs by EPA 8260B
Vinyl chloride	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Chloroethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromomethane	ND	8.0		µg/L	10/18/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Acetone	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	25,000	2,000	*	µg/L	10/17/201	VOCs by EPA 8260B
Dichloromethane	ND	8.0		µg/L	10/18/201	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Carbon disulfide	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	21	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Vinyl acetate	ND	200		µg/L	10/18/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromochloromethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Chloroform	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichloroethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Benzene	1.7	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Dibromomethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Trichloroethene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromodichloromethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Toluene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
2-Hexanone	ND	20		µg/L	10/18/201	VOCs by EPA 8260B
Dibromochloromethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	8.0		µg/L	10/18/201	VOCs by EPA 8260B



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Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-18
Client Sample ID DUP-5

Collection Date: 10/5/2017

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Chlorobenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Ethylbenzene	19	1.0		µg/L	10/18/201	VOCs by EPA 8260B
m,p-Xylene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromoform	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Xylenes, Total	1.9	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Styrene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
o-Xylene	1.9	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	8.0		µg/L	10/18/201	VOCs by EPA 8260B
Isopropylbenzene	3.0	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromobenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
n-Propylbenzene	6.5	2.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	11	2.0		µg/L	10/18/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
n-Butylbenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	12		µg/L	10/18/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	8.0		µg/L	10/18/201	VOCs by EPA 8260B
Naphthalene	26	10		µg/L	10/18/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	8.0		µg/L	10/18/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	99	70-130		%Rec	10/18/201	VOCs by EPA 8260B
Surr: Toluene-d8	118	70-130		%Rec	10/18/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	94	70-130		%Rec	10/18/201	VOCs by EPA 8260B

NOTES:

*This analyte was analyzed separately in order to achieve lower reporting limits for the other analytes.
Reporting Limits were increased due to sample foaming.



Alpha Analytical, Inc.

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Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-19
Client Sample ID DUP-4

Collection Date: 10/5/2017

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	0.36	0.050		mg/L	10/9/2017	TPH-E by EPA 8015C
Surr: Nonane	104	35-151		%Rec	10/9/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.10	O	mg/L	10/17/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	110	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: Toluene-d8	100	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	94	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloromethane	ND	4.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl chloride	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromomethane	ND	4.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Acetone	ND	20		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	18	10		µg/L	10/17/201	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Carbon disulfide	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	2.6	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl acetate	ND	100		µg/L	10/17/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	20		µg/L	10/17/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Hexanone	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	4.0		µg/L	10/17/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-19
Client Sample ID DUP-4

Collection Date: 10/5/2017

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	4.0		µg/L	10/17/201	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	6.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	4.0		µg/L	10/17/201	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	4.0		µg/L	10/17/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	110	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: Toluene-d8	100	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	94	70-130		%Rec	10/17/201	VOCs by EPA 8260B

NOTES:

Some Reporting Limits were increased due to sample foaming.



Alpha Analytical, Inc.

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Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-20
Client Sample ID DUP-3

Collection Date: 10/5/2017

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	0.085	0.050		mg/L	10/9/2017	TPH-E by EPA 8015C
Surr: Nonane	105	35-151		%Rec	10/9/2017	TPH-E by EPA 8015C
TPH-P (GRO)	0.051	0.050		mg/L	10/17/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	114	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: Toluene-d8	99	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	94	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	0.66	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/17/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Benzene	1.3	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

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Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-20
Client Sample ID DUP-3

Collection Date: 10/5/2017

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Isopropylbenzene	1.1	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	114	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: Toluene-d8	99	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	94	70-130		%Rec	10/17/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

Analytical Report

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-21
Client Sample ID GMW-25

Collection Date: 10/5/2017 2:42:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	11	0.050		mg/L	10/9/2017	TPH-E by EPA 8015C
Surr: Nonane	117	35-151		%Rec	10/9/2017	TPH-E by EPA 8015C
TPH-P (GRO)	0.40	0.050		mg/L	10/17/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	96	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: Toluene-d8	103	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	23	10		µg/L	10/17/201	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	0.64	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/17/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	1.5	1.0		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloroethane	1.0	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-21
Client Sample ID GMW-25

Collection Date: 10/5/2017 2:42:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	2.1	1.0		µg/L	10/17/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	96	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: Toluene-d8	103	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	10/17/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

Analytical Report

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
 225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-22
Client Sample ID EB-6

Collection Date: 10/5/2017 3:05:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/9/2017	TPH-E by EPA 8015C
Surr: Nonane	96	35-151		%Rec	10/9/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/17/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: Toluene-d8	114	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	94	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/17/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-22
Client Sample ID EB-6

Collection Date: 10/5/2017 3:05:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: Toluene-d8	114	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	94	70-130		%Rec	10/17/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

Analytical Report

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

WO#: CHH1710059
Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-23
Client Sample ID DUP-6

Collection Date: 10/5/2017

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	0.50	0.050		mg/L	10/9/2017	TPH-E by EPA 8015C
Surr: Nonane	130	35-151		%Rec	10/9/2017	TPH-E by EPA 8015C
TPH-P (GRO)	0.33	0.050		mg/L	10/17/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: Toluene-d8	108	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	84	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	1.0	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/17/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-23
Client Sample ID DUP-6

Collection Date: 10/5/2017

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
m,p-Xylene	3.0	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Xylenes, Total	4.1	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
o-Xylene	1.1	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	7.9	1.0		µg/L	10/17/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	19	1.0		µg/L	10/17/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Butylbenzene	1.3	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: Toluene-d8	108	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	84	70-130		%Rec	10/17/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-24
Client Sample ID EB-5

Collection Date: 10/5/2017 3:00:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/9/2017	TPH-E by EPA 8015C
Surr: Nonane	97	35-151		%Rec	10/9/2017	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/17/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: Toluene-d8	109	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	95	70-130		%Rec	10/17/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/17/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B



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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710059

Report Date: 10/19/2017

CLIENT: CH2M Hill
Project: DSFP Norwalk
Lab ID: 1710059-24
Client Sample ID EB-5

Collection Date: 10/5/2017 3:00:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/17/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/17/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/17/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/17/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: Toluene-d8	109	70-130		%Rec	10/17/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	95	70-130		%Rec	10/17/201	VOCs by EPA 8260B



QC SUMMARY REPORT

WO#: 1710059

19-Oct-17

Client: CH2M Hill
Project: DSFP Norwalk

TestCode: TPH/E_W

Sample ID MB-2347	SampType: MBLK	TestCode: TPH/E_W	Units: mg/L
Client ID: PBW	Batch ID: 2347	TestNo: SW8015	SW8015
Prep Date: 10/6/2017	RunNo: 1875	SeqNo: 46109	
Analysis Date: 10/8/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	ND	0.05									
Surr: Nonane	0.14		0.15		90.0	34.51	151.49				

Sample ID LCS-2347	SampType: LCS	TestCode: TPH/E_W	Units: mg/L
Client ID: LCSW	Batch ID: 2347	TestNo: SW8015	SW8015
Prep Date: 10/6/2017	RunNo: 1875	SeqNo: 46110	
Analysis Date: 10/8/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	2.24	0.05	2.5	0	89.8	72.51	151.49				
Surr: Nonane	0.137		0.15		91.3	34.51	151.49				

Sample ID 1710053-24AMSD	SampType: MSD	TestCode: TPH/E_W	Units: mg/L
Client ID: BatchQC	Batch ID: 2347	TestNo: SW8015	SW8015
Prep Date: 10/6/2017	RunNo: 1875	SeqNo: 46113	
Analysis Date: 10/8/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	2.25	0.1	2.5	0	89.8	63.51	161.49	2.35	4.5	40	
Surr: Nonane	0.284		0.3		94.7	32.51	162.49	0.294	0	0	

Sample ID 1710053-24AMS	SampType: MS	TestCode: TPH/E_W	Units: mg/L
Client ID: BatchQC	Batch ID: 2347	TestNo: SW8015	SW8015
Prep Date: 10/6/2017	RunNo: 1875	SeqNo: 46112	
Analysis Date: 10/8/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	2.35	0.1	2.5	0	94.0	63.51	161.49				
Surr: Nonane	0.294		0.3		98.0	32.51	162.49				

Qualifiers: B Analyte detected in the associated Method Bla
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



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 Website: www.alpha-analytical.com

QC SUMMARY REPORT

WO#: 1710059

19-Oct-17

Client: CH2M Hill
Project: DSFP Norwalk

TestCode: TPH/E_W

Sample ID	MB-2350	SampType:	MBLK	TestCode:	TPH/E_W	Units:	mg/L
Client ID:	PBW	Batch ID:	2350	TestNo:	SW8015	SW8015	
Prep Date:	10/6/2017	RunNo:	1878	SeqNo:	46179		
Analysis Date:	10/8/2017						

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	ND	0.05									
Surr: Nonane	0.16		0.15		106	34.51	151.49				B

Sample ID	LCS-2350	SampType:	LCS	TestCode:	TPH/E_W	Units:	mg/L
Client ID:	LCSW	Batch ID:	2350	TestNo:	SW8015	SW8015	
Prep Date:	10/6/2017	RunNo:	1878	SeqNo:	46180		
Analysis Date:	10/8/2017						

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	2.34	0.05	2.5	0	93.7	72.51	151.49				
Surr: Nonane	0.161		0.15		107	34.51	151.49				

Sample ID	1710059-04AMSD	SampType:	MSD	TestCode:	TPH/E_W	Units:	mg/L
Client ID:	HL-3MSD	Batch ID:	2350	TestNo:	SW8015	SW8015	
Prep Date:	10/6/2017	RunNo:	1878	SeqNo:	46185		
Analysis Date:	10/8/2017						

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	2.32	0.1	2.5	0	92.8	63.51	161.49	2.3	0.95	40	
Surr: Nonane	0.318		0.3		106	32.51	162.49	0.315	0	0	

Sample ID	1710059-04AMS	SampType:	MS	TestCode:	TPH/E_W	Units:	mg/L
Client ID:	HL-3MS	Batch ID:	2350	TestNo:	SW8015	SW8015	
Prep Date:	10/6/2017	RunNo:	1878	SeqNo:	46184		
Analysis Date:	10/8/2017						

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	2.3	0.1	2.5	0	92.0	63.51	161.49				
Surr: Nonane	0.315		0.3		105	32.51	162.49				

Qualifiers: B Analyte detected in the associated Method Bla
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



Client: CH2M Hill
Project: DSFP Norwalk

TestCode: TPH/P_W

Sample ID MB-2407	SampType: MBLK	TestCode: TPH/P_W	Units: mg/L
Client ID: PBW	Batch ID: A2407B	TestNo: SW8015	
Prep Date: 10/17/2017	RunNo: 1933	SeqNo: 47599	
Analysis Date: 10/17/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	ND	0.05									
Surr: 1,2-Dichloroethane-d4	0.011		0.01		113	69.51	130.49				
Surr: Toluene-d8	0.011		0.01		109	69.51	130.49				
Surr: 4-Bromofluorobenzene	0.011		0.01		105	69.51	130.49				

Sample ID GLCS-2407	SampType: GLCS	TestCode: TPH/P_W	Units: mg/L
Client ID: BatchQC	Batch ID: A2407B	TestNo: SW8015	
Prep Date: 10/17/2017	RunNo: 1933	SeqNo: 47597	
Analysis Date: 10/17/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	0.378	0.05	0.4	0	94.4	69.51	130.49				
Surr: 1,2-Dichloroethane-d4	0.00957		0.01		95.7	69.51	130.49				
Surr: Toluene-d8	0.0101		0.01		101	69.51	130.49				
Surr: 4-Bromofluorobenzene	0.0112		0.01		112	69.51	130.49				

Sample ID 1710083-01AGSD	SampType: GSD	TestCode: TPH/P_W	Units: mg/L
Client ID: BatchQC	Batch ID: A2407B	TestNo: SW8015	
Prep Date: 10/17/2017	RunNo: 1933	SeqNo: 47595	
Analysis Date: 10/17/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	2.19	0.25	2	0	105	53.51	143.49	2.07	5.7	23	
Surr: 1,2-Dichloroethane-d4	0.0531		0.05		106	69.51	130.49	0.0514	0	0	
Surr: Toluene-d8	0.0521		0.05		104	69.51	130.49	0.051	0	0	
Surr: 4-Bromofluorobenzene	0.0532		0.05		106	69.51	130.49	0.0508	0	0	

Sample ID 1710083-01AGS	SampType: GS	TestCode: TPH/P_W	Units: mg/L
Client ID: BatchQC	Batch ID: A2407B	TestNo: SW8015	
Prep Date: 10/17/2017	RunNo: 1933	SeqNo: 47594	
Analysis Date: 10/17/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	2.07	0.25	2	0	103	53.51	143.49				
Surr: 1,2-Dichloroethane-d4	0.0514		0.05		103	69.51	130.49				
Surr: Toluene-d8	0.051		0.05		102	69.51	130.49				
Surr: 4-Bromofluorobenzene	0.0508		0.05		102	69.51	130.49				

Qualifiers: B Analyte detected in the associated Method Bla
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



QC SUMMARY REPORT

WO#: 1710059

19-Oct-17

Client: CH2M Hill
Project: DSFP Norwalk

TestCode: TPH/P_W

Sample ID	1710083-01AGS	SampType:	GS	TestCode:	TPH/P_W	Units:	mg/L				
Client ID:	BatchQC	Batch ID:	A2407B	TestNo:	SW8015						
Prep Date:	10/17/2017	RunNo:	1933	SeqNo:	47594						
Analysis Date:	10/17/2017										
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID	MB-2408	SampType:	MBLK	TestCode:	TPH/P_W	Units:	mg/L				
Client ID:	PBW	Batch ID:	A2408B	TestNo:	SW8015						
Prep Date:	10/17/2017	RunNo:	1940	SeqNo:	47790						
Analysis Date:	10/17/2017										
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	ND	0.05									
Surr: 1,2-Dichloroethane-d4	0.0097		0.01		96.9	69.51	130.49				
Surr: Toluene-d8	0.011		0.01		106	69.51	130.49				
Surr: 4-Bromofluorobenzene	0.011		0.01		109	69.51	130.49				

Sample ID	GLCS-2408	SampType:	GLCS	TestCode:	TPH/P_W	Units:	mg/L				
Client ID:	BatchQC	Batch ID:	A2408B	TestNo:	SW8015						
Prep Date:	10/17/2017	RunNo:	1940	SeqNo:	47789						
Analysis Date:	10/17/2017										
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	0.459	0.05	0.4	0	115	69.51	130.49				
Surr: 1,2-Dichloroethane-d4	0.0103		0.01		103	69.51	130.49				
Surr: Toluene-d8	0.0103		0.01		103	69.51	130.49				
Surr: 4-Bromofluorobenzene	0.0108		0.01		108	69.51	130.49				

Sample ID	1710059-02AGSD	SampType:	GSD	TestCode:	TPH/P_W	Units:	mg/L				
Client ID:	HL-2	Batch ID:	A2408B	TestNo:	SW8015						
Prep Date:	10/18/2017	RunNo:	1940	SeqNo:	47792						
Analysis Date:	10/18/2017										
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	2.32	0.25	2	0	116	53.51	143.49	2.47	6	23	
Surr: 1,2-Dichloroethane-d4	0.0531		0.05		106	69.51	130.49	0.0521	0	0	
Surr: Toluene-d8	0.0491		0.05		98.1	69.51	130.49	0.0502	0	0	
Surr: 4-Bromofluorobenzene	0.0493		0.05		98.6	69.51	130.49	0.0501	0	0	

Qualifiers: B Analyte detected in the associated Method Bla
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



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 Website: www.alpha-analytical.com

QC SUMMARY REPORT

WO#: 1710059
 19-Oct-17

Client: CH2M Hill
Project: DSFP Norwalk

TestCode: TPH/P_W

Sample ID: 1710059-02AGS	SampType: GS	TestCode: TPH/P_W	Units: mg/L
Client ID: HL-2	Batch ID: A2408B	TestNo: SW8015	
Prep Date: 10/18/2017	RunNo: 1940	SeqNo: 47791	
Analysis Date: 10/18/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	2.47	0.25	2	0	123	53.51	143.49				
Surr: 1,2-Dichloroethane-d4	0.0521		0.05		104	69.51	130.49				
Surr: Toluene-d8	0.0502		0.05		100	69.51	130.49				
Surr: 4-Bromofluorobenzene	0.0501		0.05		100	69.51	130.49				

Qualifiers:
 B Analyte detected in the associated Method Bla
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



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QC SUMMARY REPORT

WO#: 1710059

19-Oct-17

Client: CH2M Hill
Project: DSFP Norwalk

TestCode: VOC_W

Sample ID: MB-2407	SampType: MBLK	TestCode: VOC_W	Units: µg/L
Client ID: PBW	Batch ID: A2407	TestNo: SW8260B	
Prep Date: 10/17/2017	RunNo: 1933	SeqNo: 47598	
Analysis Date: 10/17/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	1									
Chloromethane	ND	2									
Vinyl chloride	ND	1									
Chloroethane	ND	1									
Bromomethane	ND	2									
Trichlorofluoromethane	ND	1									
Acetone	ND	10									
1,1-Dichloroethene	ND	1									
Tertiary Butyl Alcohol (TBA)	ND	10									
Dichloromethane	ND	2									
Freon-113	ND	1									
Carbon disulfide	ND	2.5									
trans-1,2-Dichloroethene	ND	1									
Methyl tert-butyl ether (MTBE)	ND	0.25									
1,1-Dichloroethane	ND	1									
Vinyl acetate	ND	50									
2-Butanone (MEK)	ND	10									
Di-isopropyl Ether (DIPE)	ND	1									
cis-1,2-Dichloroethene	ND	1									
Bromochloromethane	ND	1									
Chloroform	ND	1									
Ethyl Tertiary Butyl Ether (ETBE)	ND	1									
2,2-Dichloropropane	ND	1									
1,2-Dichloroethane	ND	1									
1,1,1-Trichloroethane	ND	1									
1,1-Dichloropropene	ND	1									
Carbon tetrachloride	ND	1									
Benzene	ND	0.25									
Tertiary Amyl Methyl Ether (TAME)	ND	1									
Dibromomethane	ND	1									
1,2-Dichloropropane	ND	1									
Trichloroethene	ND	1									
Bromodichloromethane	ND	1									
4-Methyl-2-pentanone (MIBK)	ND	2.5									
cis-1,3-Dichloropropene	ND	1									
trans-1,3-Dichloropropene	ND	1									
1,1,2-Trichloroethane	ND	1									
Toluene	ND	0.25									
1,3-Dichloropropane	ND	1									
2-Hexanone	ND	5									

Qualifiers:
 B Analyte detected in the associated Method Bla
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



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QC SUMMARY REPORT

WO#: 1710059

19-Oct-17

Client: CH2M Hill
Project: DSFP Norwalk

TestCode: VOC_W

Sample ID: MB-2407	SampType: MBLK	TestCode: VOC_W	Units: µg/L
Client ID: PBW	Batch ID: A2407	TestNo: SW8260B	
Prep Date: 10/17/2017	RunNo: 1933	SeqNo: 47598	
Analysis Date: 10/17/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloromethane	ND	1									
1,2-Dibromoethane (EDB)	ND	2									
Tetrachloroethene	ND	1									
1,1,1,2-Tetrachloroethane	ND	1									
Chlorobenzene	ND	1									
Ethylbenzene	ND	0.25									
m,p-Xylene	ND	0.25									
Bromoform	ND	1									
Xylenes, Total	ND	0.25									
Styrene	ND	1									
o-Xylene	ND	0.25									
1,1,2,2-Tetrachloroethane	ND	1									
1,2,3-Trichloropropane	ND	2									
Isopropylbenzene	ND	1									
Bromobenzene	ND	1									
n-Propylbenzene	ND	1									
4-Chlorotoluene	ND	1									
2-Chlorotoluene	ND	1									
1,3,5-Trimethylbenzene	ND	1									
tert-Butylbenzene	ND	1									
1,2,4-Trimethylbenzene	ND	1									
sec-Butylbenzene	ND	1									
1,3-Dichlorobenzene	ND	1									
1,4-Dichlorobenzene	ND	1									
4-Isopropyltoluene	ND	1									
1,2-Dichlorobenzene	ND	1									
n-Butylbenzene	ND	1									
1,2-Dibromo-3-chloropropane (DBCP)	ND	3									
1,2,4-Trichlorobenzene	ND	2									
Naphthalene	ND	2									
1,2,3-Trichlorobenzene	ND	2									
Surr: 1,2-Dichloroethane-d4	11		10		113	69.51	130.49				
Surr: Toluene-d8	11		10		109	69.51	130.49				
Surr: 4-Bromofluorobenzene	11		10		105	69.51	130.49				

Qualifiers:
 B Analyte detected in the associated Method Bla
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



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QC SUMMARY REPORT

WO#: 1710059

19-Oct-17

Client: CH2M Hill
Project: DSFP Norwalk

TestCode: VOC_W

Sample ID: LCS-2407	SampType: LCS	TestCode: VOC_W	Units: µg/L
Client ID: LCSW	Batch ID: A2407	TestNo: SW8260B	
Prep Date: 10/17/2017	RunNo: 1933	SeqNo: 47822	
Analysis Date: 10/17/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	9.39	1	10	0	93.9	68.51	130.49				
Chloromethane	8.01	2	10	0	80.1	39.51	145.49				
Vinyl chloride	10.1	1	10	0	101	41.51	157.49				
Chloroethane	11.3	1	10	0	113	69.51	130.49				
Bromomethane	7.02	2	10	0	70.2	13.51	162.49				
Trichlorofluoromethane	11.7	1	10	0	117	45.51	154.49				
Acetone	172	10	200	0	86.0	21.51	188.49				
1,1-Dichloroethene	10.8	1	10	0	108	69.51	130.49				
Tertiary Butyl Alcohol (TBA)	89	10	100	0	89.0	69.51	130.49				
Dichloromethane	11.3	2	10	0	113	65.51	135.49				
Freon-113	11.3	1	10	0	113	69.51	131.49				
trans-1,2-Dichloroethene	9.44	1	10	0	94.4	69.51	131.49				
Methyl tert-butyl ether (MTBE)	8.41	0.25	10	0	84.1	68.51	134.49				
1,1-Dichloroethane	10.8	1	10	0	108	69.51	130.49				
2-Butanone (MEK)	169	10	200	0	84.3	25.51	183.49				
Di-isopropyl Ether (DIPE)	9.19	1	10	0	91.9	48.51	147.49				
cis-1,2-Dichloroethene	9.73	1	10	0	97.3	69.51	130.49				
Bromochloromethane	8.62	1	10	0	86.2	57.51	147.49				
Chloroform	10.2	1	10	0	102	39.51	145.49				
Ethyl Tertiary Butyl Ether (ETBE)	9.12	1	10	0	91.2	69.51	130.49				
2,2-Dichloropropane	12.1	1	10	0	121	25.51	183.49				
1,2-Dichloroethane	10.3	1	10	0	103	69.51	130.49				
1,1,1-Trichloroethane	11.3	1	10	0	113	69.51	130.49				
1,1-Dichloropropene	10.8	1	10	0	108	53.51	135.49				
Carbon tetrachloride	11.2	1	10	0	112	69.51	130.49				
Benzene	9.5	0.25	10	0	95.0	69.51	130.49				
Tertiary Amyl Methyl Ether (TAME)	9.13	1	10	0	91.3	47.51	148.49				
Dibromomethane	9.14	1	10	0	91.4	31.51	145.49				
1,2-Dichloropropane	11.1	1	10	0	111	69.51	134.49				
Trichloroethene	9.64	1	10	0	96.4	45.51	154.49				
Bromodichloromethane	10.2	1	10	0	102	59.51	144.49				
4-Methyl-2-pentanone (MIBK)	19.9	2.5	25	0	79.6	21.51	188.49				
cis-1,3-Dichloropropene	9.57	1	10	0	95.7	68.51	133.49				
trans-1,3-Dichloropropene	9.06	1	10	0	90.6	69.51	131.49				
1,1,2-Trichloroethane	8.85	1	10	0	88.5	69.51	130.49				
Toluene	9.78	0.25	10	0	97.8	69.51	132.49				
1,3-Dichloropropane	9.4	1	10	0	94.0	69.51	130.49				
2-Hexanone	83.4	5	100	0	83.4	69.51	132.49				
Dibromochloromethane	9.14	1	10	0	91.4	69.51	130.49				
1,2-Dibromoethane (EDB)	19.4	2	20	0	97.3	69.51	131.49				

Qualifiers:
 B Analyte detected in the associated Method Bla
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



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QC SUMMARY REPORT

WO#: 1710059

19-Oct-17

Client: CH2M Hill
Project: DSFP Norwalk

TestCode: VOC_W

Sample ID	LCS-2407	SampType:	LCS	TestCode:	VOC_W	Units:	µg/L
Client ID:	LCSW	Batch ID:	A2407	TestNo:	SW8260B		
Prep Date:	10/17/2017	RunNo:	1933	SeqNo:	47822		
Analysis Date:	10/17/2017						

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	10.3	1	10	0	104	69.51	130.49				
1,1,1,2-Tetrachloroethane	10.3	1	10	0	103	69.51	135.49				
Chlorobenzene	9.23	1	10	0	92.3	37.51	156.49				
Ethylbenzene	9.7	0.25	10	0	97.0	69.51	136.49				
m,p-Xylene	9.4	0.25	10	0	94.0	62.51	137.49				
Bromoform	8.97	1	10	0	89.7	13.51	162.49				
Xylenes, Total	19	0.25	20	0	94.8	49.51	200.49				
Styrene	8.96	1	10	0	89.6	54.51	144.49				
o-Xylene	9.57	0.25	10	0	95.7	69.51	132.49				
1,1,2,2-Tetrachloroethane	8.57	1	10	0	85.7	69.51	130.49				
1,2,3-Trichloropropane	18.4	2	20	0	91.9	61.51	131.49				
Isopropylbenzene	9.98	1	10	0	99.8	64.51	139.49				
Bromobenzene	10.1	1	10	0	101	69.51	133.49				
n-Propylbenzene	9.65	1	10	0	96.5	38.51	149.49				
4-Chlorotoluene	9.84	1	10	0	98.4	39.51	161.49				
2-Chlorotoluene	9.86	1	10	0	98.6	47.51	157.49				
1,3,5-Trimethylbenzene	9.85	1	10	0	98.5	69.51	130.49				
tert-Butylbenzene	9.54	1	10	0	95.4	62.51	139.49				
1,2,4-Trimethylbenzene	9.41	1	10	0	94.1	66.51	130.49				
sec-Butylbenzene	9.13	1	10	0	91.3	54.51	144.49				
1,3-Dichlorobenzene	9.89	1	10	0	98.9	69.51	130.49				
1,4-Dichlorobenzene	10.5	1	10	0	105	69.51	130.49				
4-Isopropyltoluene	8.9	1	10	0	89.0	58.51	140.49				
1,2-Dichlorobenzene	9.54	1	10	0	95.4	69.51	133.49				
n-Butylbenzene	8.49	1	10	0	84.9	68.51	134.49				
1,2-Dibromo-3-chloropropane (DBCP)	40.9	3	50	0	81.8	69.51	131.49				
1,2,4-Trichlorobenzene	8.7	2	10	0	87.0	69.51	133.49				
Naphthalene	6.89	2	10	0	68.9	69.51	130.49				S
1,2,3-Trichlorobenzene	7.99	2	10	0	79.9	69.51	130.49				
Surr: 1,2-Dichloroethane-d4	10.4		10		104	69.51	130.49				
Surr: Toluene-d8	10.2		10		102	69.51	130.49				
Surr: 4-Bromofluorobenzene	10.9		10		109	69.51	130.49				

Sample ID	1710083-01AMSD	SampType:	MSD	TestCode:	VOC_W	Units:	µg/L
Client ID:	BatchQC	Batch ID:	A2407	TestNo:	SW8260B		
Prep Date:	10/17/2017	RunNo:	1933	SeqNo:	47574		
Analysis Date:	10/17/2017						

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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Qualifiers: B Analyte detected in the associated Method Bla
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



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QC SUMMARY REPORT

WO#: 1710059

19-Oct-17

Client: CH2M Hill
Project: DSFP Norwalk

TestCode: VOC_W

Sample ID: 1710083-01AMSD	SampType: MSD	TestCode: VOC_W	Units: µg/L
Client ID: BatchQC	Batch ID: A2407	TestNo: SW8260B	
Prep Date: 10/17/2017	RunNo: 1933	SeqNo: 47574	
Analysis Date: 10/17/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	46.5	5	50	0	92.9	11.51	150.49	43.7	6.2	30	
Chloromethane	45.6	10	50	0	91.3	25.51	146.49	43.8	4.2	30	
Vinyl chloride	54.2	5	50	0	108	45.51	142.49	53.5	1.2	30	
Chloroethane	66.5	5	50	0	133	24.51	164.49	64.4	3.2	30	
Bromomethane	35.7	10	50	0	71.3	9.51	172.49	24.6	37	30	R
Trichlorofluoromethane	63.8	5	50	0	128	31.51	164.49	63.3	0.9	30	
Acetone	1070	50	1000	0	107	9.51	188.49	1020	4.3	30	
1,1-Dichloroethene	62	5	50	0	124	61.51	133.49	59.1	4.7	30	
Tertiary Butyl Alcohol (TBA)	600	50	500	0	120	43.51	155.49	585	2.4	30	
Dichloromethane	62.7	10	50	0	125	68.51	130.49	58.7	6.6	30	
Freon-113	60.5	5	50	0	121	55.51	144.49	56.2	7.3	30	
trans-1,2-Dichloroethene	52.2	5	50	0	104	66.51	131.49	51	2.4	30	
Methyl tert-butyl ether (MTBE)	51.2	1.25	50	0	102	55.51	140.49	48.8	4.9	30	
1,1-Dichloroethane	60.6	5	50	0	121	66.51	130.49	58.2	4.1	30	
2-Butanone (MEK)	1040	50	1000	0	104	25.51	183.49	996	4.5	30	
Di-isopropyl Ether (DIPE)	54.3	5	50	0	109	58.51	138.49	51.2	5.9	30	
cis-1,2-Dichloroethene	53.6	5	50	0	107	69.51	130.49	50.8	5.3	30	
Bromochloromethane	49.5	5	50	0	98.9	69.51	134.49	47.3	4.5	30	
Chloroform	57.4	5	50	0	115	68.51	130.49	55.1	4.2	30	
Ethyl Tertiary Butyl Ether (ETBE)	53.2	5	50	0	106	61.51	135.49	51.8	2.8	30	
2,2-Dichloropropane	57.1	5	50	0	114	43.51	149.49	55.7	2.5	30	
1,2-Dichloroethane	63.6	5	50	0	127	63.51	139.49	59.7	6.3	30	
1,1,1-Trichloroethane	62.3	5	50	0	125	64.51	139.49	62	0.47	30	
1,1-Dichloropropene	55.8	5	50	0	112	67.51	134.49	54.4	2.5	30	
Carbon tetrachloride	58.4	5	50	0	117	55.51	146.49	57.7	1.2	30	
Benzene	53.3	1.25	50	0	107	66.51	134.49	51.2	3.9	30	
Tertiary Amyl Methyl Ether (TAME)	52.9	5	50	0	106	63.51	135.49	50.6	4.4	30	
Dibromomethane	56.6	5	50	0	113	69.51	132.49	54.3	4.2	30	
1,2-Dichloropropane	64.4	5	50	0	129	68.51	134.49	60.8	5.8	30	
Trichloroethene	51.7	5	50	0	103	67.51	138.49	49.8	3.7	30	
Bromodichloromethane	58.7	5	50	0	117	57.51	147.49	55.4	5.7	30	
4-Methyl-2-pentanone (MIBK)	121	12.5	125	0	96.4	48.51	140.49	117	2.6	30	
cis-1,3-Dichloropropene	44.8	5	50	0	89.7	60.51	130.49	43.7	2.6	30	
trans-1,3-Dichloropropene	51.2	5	50	0	102	61.51	131.49	50	2.5	30	
1,1,2-Trichloroethane	51.4	5	50	0	103	69.51	131.49	49.6	3.6	30	
Toluene	51.2	1.25	50	0	102	37.51	130.49	50.5	1.3	30	
1,3-Dichloropropane	55.3	5	50	0	110	69.51	130.49	54.3	1.8	30	
2-Hexanone	512	25	500	0	102	24.51	157.49	516	0.84	30	
Dibromochloromethane	53.7	5	50	0	107	48.51	147.49	52.9	1.5	30	
1,2-Dibromoethane (EDB)	114	10	100	0	114	69.51	131.49	110	3.6	30	

Qualifiers: B Analyte detected in the associated Method Bla
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



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QC SUMMARY REPORT

WO#: 1710059

19-Oct-17

Client: CH2M Hill
Project: DSFP Norwalk

TestCode: VOC_W

Sample ID: 1710083-01AMSD	SampType: MSD	TestCode: VOC_W	Units: µg/L
Client ID: BatchQC	Batch ID: A2407	TestNo: SW8260B	
Prep Date: 10/17/2017	RunNo: 1933	SeqNo: 47574	
Analysis Date: 10/17/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	51.3	5	50	0	103	62.51	134.49	50.8	1.1	30	
1,1,1,2-Tetrachloroethane	59.3	5	50	0	119	69.51	133.49	57.8	2.6	30	
Chlorobenzene	51.2	5	50	0	102	69.51	130.49	50	2.4	30	
Ethylbenzene	51.9	1.25	50	0	104	69.51	130.49	52	0.13	30	
m,p-Xylene	53	1.25	50	0	106	64.51	139.49	50.6	4.6	30	
Bromoform	51.1	5	50	0	102	59.51	144.49	50.2	1.8	30	
Xylenes, Total	105	1.25	100	0	105	69.51	130.49	102	3.6	30	
Styrene	49.2	5	50	0	98.4	52.51	144.49	49.1	0.28	30	
o-Xylene	52.4	1.25	50	0	105	68.51	130.49	51.1	2.6	30	
1,1,2,2-Tetrachloroethane	52.4	5	50	0	105	66.51	134.49	50.3	4.2	30	
1,2,3-Trichloropropane	114	10	100	0	114	69.51	130.49	115	0.59	30	
Isopropylbenzene	52.3	5	50	0	103	63.51	136.49	48.6	7.3	30	
Bromobenzene	54	5	50	0	108	68.51	130.49	51.9	4	30	
n-Propylbenzene	50.5	5	50	0	99.9	64.51	132.49	46.9	7.5	30	
4-Chlorotoluene	51.3	5	50	0	103	68.51	132.49	48.8	5.1	30	
2-Chlorotoluene	51.2	5	50	0	102	68.51	130.49	48.6	5.2	30	
1,3,5-Trimethylbenzene	50.6	5	50	0	101	63.51	135.49	47.7	5.8	30	
tert-Butylbenzene	47.8	5	50	0	95.5	62.51	139.49	45.7	4.4	30	
1,2,4-Trimethylbenzene	48.8	5	50	0	97.6	61.51	135.49	47.5	2.7	30	
sec-Butylbenzene	45.7	5	50	0	89.8	67.51	132.49	44.1	3.5	30	
1,3-Dichlorobenzene	52.1	5	50	0	104	69.51	130.49	49.2	5.7	30	
1,4-Dichlorobenzene	53.9	5	50	0	108	69.51	130.49	51.5	4.5	30	
4-Isopropyltoluene	43.8	5	50	0	86.5	39.51	161.49	41.1	6.3	30	
1,2-Dichlorobenzene	51.5	5	50	0	103	69.51	130.49	49.6	3.8	30	
n-Butylbenzene	43.3	5	50	0	86.5	57.51	135.49	39.3	9.7	30	
1,2-Dibromo-3-chloropropane (DBCP)	266	15	250	0	106	62.51	131.49	248	6.7	30	
1,2,4-Trichlorobenzene	58.4	10	50	0	117	56.51	134.49	51.4	13	30	
Naphthalene	49.7	10	50	0	99.5	30.51	157.49	44.1	12	30	
1,2,3-Trichlorobenzene	53.5	10	50	0	107	51.51	138.49	44.1	19	30	
Surr: 1,2-Dichloroethane-d4	58		50		116	69.51	130.49	56.7	0	0	
Surr: Toluene-d8	48.7		50		97.4	69.51	130.49	48.9	0	0	
Surr: 4-Bromofluorobenzene	52.2		50		104	69.51	130.49	52	0	0	

Sample ID: 1710083-01AMS	SampType: MS	TestCode: VOC_W	Units: µg/L
Client ID: BatchQC	Batch ID: A2407	TestNo: SW8260B	
Prep Date: 10/17/2017	RunNo: 1933	SeqNo: 47573	
Analysis Date: 10/17/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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Qualifiers: B Analyte detected in the associated Method Bla
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



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QC SUMMARY REPORT

WO#: 1710059

19-Oct-17

Client: CH2M Hill
Project: DSFP Norwalk

TestCode: VOC_W

Sample ID: 1710083-01AMS	SampType: MS	TestCode: VOC_W	Units: µg/L
Client ID: BatchQC	Batch ID: A2407	TestNo: SW8260B	
Prep Date: 10/17/2017	RunNo: 1933	SeqNo: 47573	
Analysis Date: 10/17/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	43.7	5	50	0	87.3	11.51	150.49				
Chloromethane	43.8	10	50	0	87.6	25.51	146.49				
Vinyl chloride	53.5	5	50	0	107	45.51	142.49				
Chloroethane	64.4	5	50	0	129	24.51	164.49				
Bromomethane	24.6	10	50	0	49.2	9.51	172.49				
Trichlorofluoromethane	63.3	5	50	0	127	31.51	164.49				
Acetone	1020	50	1000	0	102	9.51	188.49				
1,1-Dichloroethene	59.1	5	50	0	118	61.51	133.49				
Tertiary Butyl Alcohol (TBA)	585	50	500	0	117	43.51	155.49				
Dichloromethane	58.7	10	50	0	117	68.51	130.49				
Freon-113	56.2	5	50	0	112	55.51	144.49				
trans-1,2-Dichloroethene	51	5	50	0	102	66.51	131.49				
Methyl tert-butyl ether (MTBE)	48.8	1.25	50	0	97.6	55.51	140.49				
1,1-Dichloroethane	58.2	5	50	0	116	66.51	130.49				
2-Butanone (MEK)	996	50	1000	0	99.6	25.51	183.49				
Di-isopropyl Ether (DIPE)	51.2	5	50	0	102	58.51	138.49				
cis-1,2-Dichloroethene	50.8	5	50	0	102	69.51	130.49				
Bromochloromethane	47.3	5	50	0	94.6	69.51	134.49				
Chloroform	55.1	5	50	0	110	68.51	130.49				
Ethyl Tertiary Butyl Ether (ETBE)	51.8	5	50	0	104	61.51	135.49				
2,2-Dichloropropane	55.7	5	50	0	111	43.51	149.49				
1,2-Dichloroethane	59.7	5	50	0	119	63.51	139.49				
1,1,1-Trichloroethane	62	5	50	0	124	64.51	139.49				
1,1-Dichloropropene	54.4	5	50	0	109	67.51	134.49				
Carbon tetrachloride	57.7	5	50	0	115	55.51	146.49				
Benzene	51.2	1.25	50	0	102	66.51	134.49				
Tertiary Amyl Methyl Ether (TAME)	50.6	5	50	0	101	63.51	135.49				
Dibromomethane	54.3	5	50	0	109	69.51	132.49				
1,2-Dichloropropane	60.8	5	50	0	122	68.51	134.49				
Trichloroethene	49.8	5	50	0	99.6	67.51	138.49				
Bromodichloromethane	55.4	5	50	0	111	57.51	147.49				
4-Methyl-2-pentanone (MIBK)	117	12.5	125	0	93.9	48.51	140.49				
cis-1,3-Dichloropropene	43.7	5	50	0	87.4	60.51	130.49				
trans-1,3-Dichloropropene	50	5	50	0	99.9	61.51	131.49				
1,1,2-Trichloroethane	49.6	5	50	0	99.3	69.51	131.49				
Toluene	50.5	1.25	50	0	101	37.51	130.49				
1,3-Dichloropropane	54.3	5	50	0	109	69.51	130.49				
2-Hexanone	516	25	500	0	103	24.51	157.49				
Dibromochloromethane	52.9	5	50	0	106	48.51	147.49				
1,2-Dibromoethane (EDB)	110	10	100	0	110	69.51	131.49				

Qualifiers: B Analyte detected in the associated Method Bla
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



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QC SUMMARY REPORT

WO#: 1710059

19-Oct-17

Client: CH2M Hill
Project: DSFP Norwalk

TestCode: VOC_W

Sample ID	1710083-01AMS	SampType:	MS	TestCode:	VOC_W	Units:	µg/L
Client ID:	BatchQC	Batch ID:	A2407	TestNo:	SW8260B		
Prep Date:	10/17/2017	RunNo:	1933	SeqNo:	47573		
Analysis Date:	10/17/2017						

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	50.8	5	50	0	102	62.51	134.49				
1,1,1,2-Tetrachloroethane	57.8	5	50	0	116	69.51	133.49				
Chlorobenzene	50	5	50	0	100	69.51	130.49				
Ethylbenzene	52	1.25	50	0	104	69.51	130.49				
m,p-Xylene	50.6	1.25	50	0	101	64.51	139.49				
Bromoform	50.2	5	50	0	100	59.51	144.49				
Xylenes, Total	102	1.25	100	0	102	69.51	130.49				
Styrene	49.1	5	50	0	98.1	52.51	144.49				
o-Xylene	51.1	1.25	50	0	102	68.51	130.49				
1,1,2,2-Tetrachloroethane	50.3	5	50	0	101	66.51	134.49				
1,2,3-Trichloropropane	115	10	100	0	115	69.51	130.49				
Isopropylbenzene	48.6	5	50	0	95.6	63.51	136.49				
Bromobenzene	51.9	5	50	0	104	68.51	130.49				
n-Propylbenzene	46.9	5	50	0	92.6	64.51	132.49				
4-Chlorotoluene	48.8	5	50	0	97.6	68.51	132.49				
2-Chlorotoluene	48.6	5	50	0	97.2	68.51	130.49				
1,3,5-Trimethylbenzene	47.7	5	50	0	95.4	63.51	135.49				
tert-Butylbenzene	45.7	5	50	0	91.4	62.51	139.49				
1,2,4-Trimethylbenzene	47.5	5	50	0	95.1	61.51	135.49				
sec-Butylbenzene	44.1	5	50	0	86.6	67.51	132.49				
1,3-Dichlorobenzene	49.2	5	50	0	98.4	69.51	130.49				
1,4-Dichlorobenzene	51.5	5	50	0	103	69.51	130.49				
4-Isopropyltoluene	41.1	5	50	0	81.1	39.51	161.49				
1,2-Dichlorobenzene	49.6	5	50	0	99.1	69.51	130.49				
n-Butylbenzene	39.3	5	50	0	78.5	57.51	135.49				
1,2-Dibromo-3-chloropropane (DBCP)	248	15	250	0	99.3	62.51	131.49				
1,2,4-Trichlorobenzene	51.4	10	50	0	103	56.51	134.49				
Naphthalene	44.1	10	50	0	88.3	30.51	157.49				
1,2,3-Trichlorobenzene	44.1	10	50	0	88.2	51.51	138.49				
Surr: 1,2-Dichloroethane-d4	56.7		50		113	69.51	130.49				
Surr: Toluene-d8	48.9		50		97.8	69.51	130.49				
Surr: 4-Bromofluorobenzene	52		50		104	69.51	130.49				

Sample ID	MB-2408	SampType:	MBLK	TestCode:	VOC_W	Units:	µg/L
Client ID:	PBW	Batch ID:	A2408	TestNo:	SW8260B		
Prep Date:	10/17/2017	RunNo:	1940	SeqNo:	47786		
Analysis Date:	10/17/2017						

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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Qualifiers: B Analyte detected in the associated Method Bla
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



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QC SUMMARY REPORT

WO#: 1710059

19-Oct-17

Client: CH2M Hill
Project: DSFP Norwalk

TestCode: VOC_W

Sample ID: MB-2408	SampType: MBLK	TestCode: VOC_W	Units: µg/L
Client ID: PBW	Batch ID: A2408	TestNo: SW8260B	
Prep Date: 10/17/2017	RunNo: 1940	SeqNo: 47786	
Analysis Date: 10/17/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	1									
Chloromethane	ND	2									
Vinyl chloride	ND	1									
Chloroethane	ND	1									
Bromomethane	ND	2									
Trichlorofluoromethane	ND	1									
Acetone	ND	10									
1,1-Dichloroethene	ND	1									
Tertiary Butyl Alcohol (TBA)	ND	10									
Dichloromethane	ND	2									
Freon-113	ND	1									
Carbon disulfide	ND	2.5									
trans-1,2-Dichloroethene	ND	1									
Methyl tert-butyl ether (MTBE)	ND	0.25									
1,1-Dichloroethane	ND	1									
Vinyl acetate	ND	50									
2-Butanone (MEK)	ND	10									
Di-isopropyl Ether (DIPE)	ND	1									
cis-1,2-Dichloroethene	ND	1									
Bromochloromethane	ND	1									
Chloroform	ND	1									
Ethyl Tertiary Butyl Ether (ETBE)	ND	1									
2,2-Dichloropropane	ND	1									
1,2-Dichloroethane	ND	1									
1,1,1-Trichloroethane	ND	1									
1,1-Dichloropropene	ND	1									
Carbon tetrachloride	ND	1									
Benzene	ND	0.25									
Tertiary Amyl Methyl Ether (TAME)	ND	1									
Dibromomethane	ND	1									
1,2-Dichloropropane	ND	1									
Trichloroethene	ND	1									
Bromodichloromethane	ND	1									
4-Methyl-2-pentanone (MIBK)	ND	2.5									
cis-1,3-Dichloropropene	ND	1									
trans-1,3-Dichloropropene	ND	1									
1,1,2-Trichloroethane	ND	1									
Toluene	ND	0.25									
1,3-Dichloropropane	ND	1									
2-Hexanone	ND	5									

Qualifiers:
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 S Spike Recovery outside accepted recovery limit



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QC SUMMARY REPORT

WO#: 1710059

19-Oct-17

Client: CH2M Hill
Project: DSFP Norwalk

TestCode: VOC_W

Sample ID: MB-2408	SampType: MBLK	TestCode: VOC_W	Units: µg/L
Client ID: PBW	Batch ID: A2408	TestNo: SW8260B	
Prep Date: 10/17/2017	RunNo: 1940	SeqNo: 47786	
Analysis Date: 10/17/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloromethane	ND	1									
1,2-Dibromoethane (EDB)	ND	2									
Tetrachloroethene	ND	1									
1,1,1,2-Tetrachloroethane	ND	1									
Chlorobenzene	ND	1									
Ethylbenzene	ND	0.25									
m,p-Xylene	ND	0.25									
Bromoform	ND	1									
Xylenes, Total	ND	0.25									
Styrene	ND	1									
o-Xylene	ND	0.25									
1,1,2,2-Tetrachloroethane	ND	1									
1,2,3-Trichloropropane	ND	2									
Isopropylbenzene	ND	1									
Bromobenzene	ND	1									
n-Propylbenzene	ND	1									
4-Chlorotoluene	ND	1									
2-Chlorotoluene	ND	1									
1,3,5-Trimethylbenzene	ND	1									
tert-Butylbenzene	ND	1									
1,2,4-Trimethylbenzene	ND	1									
sec-Butylbenzene	ND	1									
1,3-Dichlorobenzene	ND	1									
1,4-Dichlorobenzene	ND	1									
4-Isopropyltoluene	ND	1									
1,2-Dichlorobenzene	ND	1									
n-Butylbenzene	ND	1									
1,2-Dibromo-3-chloropropane (DBCP)	ND	3									
1,2,4-Trichlorobenzene	ND	2									
Naphthalene	ND	2									
1,2,3-Trichlorobenzene	ND	2									
Surr: 1,2-Dichloroethane-d4	9.7		10		96.9	69.51	130.49				
Surr: Toluene-d8	11		10		106	69.51	130.49				
Surr: 4-Bromofluorobenzene	11		10		109	69.51	130.49				

Qualifiers:
 B Analyte detected in the associated Method Bla
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



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QC SUMMARY REPORT

WO#: 1710059

19-Oct-17

Client: CH2M Hill
Project: DSFP Norwalk

TestCode: VOC_W

Sample ID: LCS-2408	SampType: LCS	TestCode: VOC_W	Units: µg/L
Client ID: LCSW	Batch ID: A2408	TestNo: SW8260B	
Prep Date: 10/17/2017	RunNo: 1940	SeqNo: 47785	
Analysis Date: 10/17/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	15.4	1	10	0	154	68.51	130.49				S
Chloromethane	12.7	2	10	0	127	39.51	145.49				
Vinyl chloride	12	1	10	0	120	41.51	157.49				
Chloroethane	10.4	1	10	0	104	69.51	130.49				
Bromomethane	11.6	2	10	0	116	13.51	162.49				
Trichlorofluoromethane	13.2	1	10	0	132	45.51	154.49				
Acetone	184	10	200	0	92.1	21.51	188.49				
1,1-Dichloroethene	10.8	1	10	0	108	69.51	130.49				
Tertiary Butyl Alcohol (TBA)	87.2	10	100	0	87.2	69.51	130.49				
Dichloromethane	9.64	2	10	0	96.4	65.51	135.49				
Freon-113	10.3	1	10	0	104	69.51	131.49				
trans-1,2-Dichloroethene	9.99	1	10	0	99.9	69.51	131.49				
Methyl tert-butyl ether (MTBE)	11.1	0.25	10	0	111	68.51	134.49				
1,1-Dichloroethane	9.79	1	10	0	97.9	69.51	130.49				
2-Butanone (MEK)	179	10	200	0	89.2	25.51	183.49				
Di-isopropyl Ether (DIPE)	10.1	1	10	0	101	48.51	147.49				
cis-1,2-Dichloroethene	9.33	1	10	0	93.3	69.51	130.49				
Bromochloromethane	9.58	1	10	0	95.8	57.51	147.49				
Chloroform	9.34	1	10	0	93.4	39.51	145.49				
Ethyl Tertiary Butyl Ether (ETBE)	10.5	1	10	0	105	69.51	130.49				
2,2-Dichloropropane	12.9	1	10	0	129	25.51	183.49				
1,2-Dichloroethane	10.5	1	10	0	105	69.51	130.49				
1,1,1-Trichloroethane	10.3	1	10	0	103	69.51	130.49				
1,1-Dichloropropene	10.4	1	10	0	104	53.51	135.49				
Carbon tetrachloride	10.6	1	10	0	106	69.51	130.49				
Benzene	9.48	0.25	10	0	94.8	69.51	130.49				
Tertiary Amyl Methyl Ether (TAME)	10.9	1	10	0	110	47.51	148.49				
Dibromomethane	9.91	1	10	0	99.1	31.51	145.49				
1,2-Dichloropropane	9.19	1	10	0	91.9	69.51	134.49				
Trichloroethene	9.13	1	10	0	91.3	45.51	154.49				
Bromodichloromethane	10.2	1	10	0	102	59.51	144.49				
4-Methyl-2-pentanone (MIBK)	21.7	2.5	25	0	86.6	21.51	188.49				
cis-1,3-Dichloropropene	10.5	1	10	0	105	68.51	133.49				
trans-1,3-Dichloropropene	9.6	1	10	0	96.0	69.51	131.49				
1,1,2-Trichloroethane	9.55	1	10	0	95.5	69.51	130.49				
Toluene	8.71	0.25	10	0	87.1	69.51	132.49				
1,3-Dichloropropane	9.38	1	10	0	93.8	69.51	130.49				
2-Hexanone	94.4	5	100	0	94.4	69.51	132.49				
Dibromochloromethane	10.1	1	10	0	101	69.51	130.49				
1,2-Dibromoethane (EDB)	19.2	2	20	0	95.8	69.51	131.49				

Qualifiers:
 B Analyte detected in the associated Method Bla
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



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QC SUMMARY REPORT

WO#: 1710059

19-Oct-17

Client: CH2M Hill
Project: DSFP Norwalk

TestCode: VOC_W

Sample ID	LCS-2408	SampType:	LCS	TestCode:	VOC_W	Units:	µg/L
Client ID:	LCSW	Batch ID:	A2408	TestNo:	SW8260B		
Prep Date:	10/17/2017	RunNo:	1940	SeqNo:	47785		
Analysis Date:	10/17/2017						

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	9.35	1	10	0	93.5	69.51	130.49				
1,1,1,2-Tetrachloroethane	9.42	1	10	0	94.2	69.51	135.49				
Chlorobenzene	8.8	1	10	0	88.0	37.51	156.49				
Ethylbenzene	8.79	0.25	10	0	87.9	69.51	136.49				
m,p-Xylene	9.25	0.25	10	0	92.5	62.51	137.49				
Bromoform	11	1	10	0	110	13.51	162.49				
Xylenes, Total	18.4	0.25	20	0	92.0	49.51	200.49				
Styrene	9.59	1	10	0	95.9	54.51	144.49				
o-Xylene	9.14	0.25	10	0	91.4	69.51	132.49				
1,1,2,2-Tetrachloroethane	9.43	1	10	0	94.3	69.51	130.49				
1,2,3-Trichloropropane	19.9	2	20	0	99.4	61.51	131.49				
Isopropylbenzene	8.98	1	10	0	89.8	64.51	139.49				
Bromobenzene	9.31	1	10	0	93.1	69.51	133.49				
n-Propylbenzene	9.31	1	10	0	93.1	38.51	149.49				
4-Chlorotoluene	9.22	1	10	0	92.2	39.51	161.49				
2-Chlorotoluene	9.19	1	10	0	91.9	47.51	157.49				
1,3,5-Trimethylbenzene	9.4	1	10	0	94.0	69.51	130.49				
tert-Butylbenzene	9.19	1	10	0	91.9	62.51	139.49				
1,2,4-Trimethylbenzene	9.61	1	10	0	96.1	66.51	130.49				
sec-Butylbenzene	9.4	1	10	0	94.0	54.51	144.49				
1,3-Dichlorobenzene	9.56	1	10	0	95.6	69.51	130.49				
1,4-Dichlorobenzene	9.55	1	10	0	95.5	69.51	130.49				
4-Isopropyltoluene	9.68	1	10	0	96.8	58.51	140.49				
1,2-Dichlorobenzene	9.57	1	10	0	95.7	69.51	133.49				
n-Butylbenzene	10.2	1	10	0	102	68.51	134.49				
1,2-Dibromo-3-chloropropane (DBCP)	57	3	50	0	114	69.51	131.49				
1,2,4-Trichlorobenzene	9.86	2	10	0	98.6	69.51	133.49				
Naphthalene	8.75	2	10	0	87.5	69.51	130.49				
1,2,3-Trichlorobenzene	9.79	2	10	0	97.9	69.51	130.49				
Surr: 1,2-Dichloroethane-d4	11.5		10		115	69.51	130.49				
Surr: Toluene-d8	9.75		10		97.5	69.51	130.49				
Surr: 4-Bromofluorobenzene	10.1		10		101	69.51	130.49				

Sample ID	1710059-02AMSD	SampType:	MSD	TestCode:	VOC_W	Units:	µg/L
Client ID:	HL-2MSD	Batch ID:	A2408	TestNo:	SW8260B		
Prep Date:	10/18/2017	RunNo:	1940	SeqNo:	47788		
Analysis Date:	10/18/2017						

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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Qualifiers: B Analyte detected in the associated Method Bla
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



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QC SUMMARY REPORT

WO#: 1710059

19-Oct-17

Client: CH2M Hill
Project: DSFP Norwalk

TestCode: VOC_W

Sample ID: 1710059-02AMSD	SampType: MSD	TestCode: VOC_W	Units: µg/L
Client ID: HL-2MSD	Batch ID: A2408	TestNo: SW8260B	
Prep Date: 10/18/2017	RunNo: 1940	SeqNo: 47788	
Analysis Date: 10/18/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	67.3	5	50	0	135	11.51	150.49	72	6.8	30	
Chloromethane	68.2	10	50	0	136	25.51	146.49	75.4	10	30	
Vinyl chloride	64.6	5	50	0	129	45.51	142.49	71.5	10	30	
Chloroethane	53.6	5	50	0	107	24.51	164.49	61.2	13	30	
Bromomethane	79.4	10	50	0	159	9.51	172.49	88.5	11	30	
Trichlorofluoromethane	62	5	50	0	124	31.51	164.49	67.8	8.9	30	
Acetone	1050	50	1000	0	104	9.51	188.49	1090	4	30	
1,1-Dichloroethene	58.9	5	50	0	118	61.51	133.49	65.1	10	30	
Tertiary Butyl Alcohol (TBA)	520	50	500	0	104	43.51	155.49	513	1.4	30	
Dichloromethane	52.8	10	50	0	106	68.51	130.49	58.9	11	30	
Freon-113	53.7	5	50	0	107	55.51	144.49	57.6	6.9	30	
trans-1,2-Dichloroethene	56.1	5	50	0	112	66.51	131.49	62.2	10	30	
Methyl tert-butyl ether (MTBE)	61.5	1.25	50	0	123	55.51	140.49	65.7	6.6	30	
1,1-Dichloroethane	53.8	5	50	0	108	66.51	130.49	60	11	30	
2-Butanone (MEK)	1010	50	1000	0	101	25.51	183.49	1050	3.7	30	
Di-isopropyl Ether (DIPE)	57.3	5	50	0	115	58.51	138.49	62.5	8.7	30	
cis-1,2-Dichloroethene	53.5	5	50	0	107	69.51	130.49	59.6	11	30	
Bromochloromethane	53.3	5	50	0	107	69.51	134.49	58.1	8.5	30	
Chloroform	49	5	50	0	98.1	68.51	130.49	54.8	11	30	
Ethyl Tertiary Butyl Ether (ETBE)	58.7	5	50	0	117	61.51	135.49	63.3	7.5	30	
2,2-Dichloropropane	66.1	5	50	0	132	43.51	149.49	73.8	11	30	
1,2-Dichloroethane	53	5	50	0	106	63.51	139.49	57.4	7.8	30	
1,1,1-Trichloroethane	53.4	5	50	0	107	64.51	139.49	58.8	9.7	30	
1,1-Dichloropropene	56.9	5	50	0	114	67.51	134.49	61.9	8.4	30	
Carbon tetrachloride	53.2	5	50	0	106	55.51	146.49	58.8	10	30	
Benzene	53.1	1.25	50	0	106	66.51	134.49	58.8	10	30	
Tertiary Amyl Methyl Ether (TAME)	56.7	5	50	0	113	63.51	135.49	60	5.6	30	
Dibromomethane	52.8	5	50	0	106	69.51	132.49	57.5	8.5	30	
1,2-Dichloropropane	52.4	5	50	0	105	68.51	134.49	57.7	9.7	30	
Trichloroethene	51.1	5	50	0	102	67.51	138.49	56.6	10	30	
Bromodichloromethane	52.4	5	50	0	105	57.51	147.49	57.7	9.6	30	
4-Methyl-2-pentanone (MIBK)	124	12.5	125	0	99.0	48.51	140.49	128	3.5	30	
cis-1,3-Dichloropropene	56.7	5	50	0	113	60.51	130.49	62.3	9.4	30	
trans-1,3-Dichloropropene	50.3	5	50	0	101	61.51	131.49	53.9	6.9	30	
1,1,2-Trichloroethane	52.2	5	50	0	104	69.51	131.49	55.4	6	30	
Toluene	49.8	1.25	50	0	99.7	37.51	130.49	55.1	10	30	
1,3-Dichloropropane	54.7	5	50	0	109	69.51	130.49	58.2	6.1	30	
2-Hexanone	539	25	500	0	108	24.51	157.49	555	2.8	30	
Dibromochloromethane	55	5	50	0	110	48.51	147.49	58.9	6.8	30	
1,2-Dibromoethane (EDB)	110	10	100	0	110	69.51	131.49	116	5.6	30	

Qualifiers:
 B Analyte detected in the associated Method Bla
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



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QC SUMMARY REPORT

WO#: 1710059

19-Oct-17

Client: CH2M Hill
Project: DSFP Norwalk

TestCode: VOC_W

Sample ID	1710059-02AMSD	SampType:	MSD	TestCode:	VOC_W	Units:	µg/L
Client ID:	HL-2MSD	Batch ID:	A2408	TestNo:	SW8260B		
Prep Date:	10/18/2017	RunNo:	1940	SeqNo:	47788		
Analysis Date:	10/18/2017						

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	53.1	5	50	0	106	62.51	134.49	57.2	7.6	30	
1,1,1,2-Tetrachloroethane	51.7	5	50	0	103	69.51	133.49	55.5	7.1	30	
Chlorobenzene	50.5	5	50	0	101	69.51	130.49	54.6	7.7	30	
Ethylbenzene	50.1	1.25	50	0	100	69.51	130.49	54.3	8	30	
m,p-Xylene	52.2	1.25	50	0	104	64.51	139.49	56.6	8	30	
Bromoform	56.5	5	50	0	113	59.51	144.49	58.8	3.9	30	
Xylenes, Total	105	1.25	100	0	105	69.51	130.49	113	7.6	30	
Styrene	54.8	5	50	0	110	52.51	144.49	58.8	7	30	
o-Xylene	52.8	1.25	50	0	106	68.51	130.49	56.7	7.1	30	
1,1,2,2-Tetrachloroethane	53.2	5	50	0	106	66.51	134.49	54.6	2.6	30	
1,2,3-Trichloropropane	108	10	100	0	108	69.51	130.49	112	3.7	30	
Isopropylbenzene	50	5	50	0	100	63.51	136.49	53.7	7.2	30	
Bromobenzene	50.6	5	50	0	101	68.51	130.49	53.9	6.3	30	
n-Propylbenzene	51.4	5	50	0	103	64.51	132.49	54	5	30	
4-Chlorotoluene	51.6	5	50	0	103	68.51	132.49	53.5	3.5	30	
2-Chlorotoluene	50.7	5	50	0	101	68.51	130.49	54	6.3	30	
1,3,5-Trimethylbenzene	51	5	50	0	102	63.51	135.49	53.1	4.1	30	
tert-Butylbenzene	49.9	5	50	0	99.8	62.51	139.49	51.5	3.1	30	
1,2,4-Trimethylbenzene	51.7	5	50	0	103	61.51	135.49	53.5	3.4	30	
sec-Butylbenzene	51.1	5	50	0	102	67.51	132.49	51.7	1.3	30	
1,3-Dichlorobenzene	51.5	5	50	0	103	69.51	130.49	52.6	2.1	30	
1,4-Dichlorobenzene	52.1	5	50	0	104	69.51	130.49	53	1.8	30	
4-Isopropyltoluene	52.6	5	50	0	105	39.51	161.49	52.6	0.019	30	
1,2-Dichlorobenzene	51.4	5	50	0	103	69.51	130.49	51.7	0.56	30	
n-Butylbenzene	55.2	5	50	0	110	57.51	135.49	52.9	4.2	30	
1,2-Dibromo-3-chloropropane (DBCP)	315	15	250	0	126	62.51	131.49	314	0.17	30	
1,2,4-Trichlorobenzene	61.8	10	50	0	124	56.51	134.49	53.2	15	30	
Naphthalene	72.8	10	50	0	146	30.51	157.49	63.9	13	30	
1,2,3-Trichlorobenzene	71.1	10	50	0	142	51.51	138.49	57.7	21	30	S
Surr: 1,2-Dichloroethane-d4	55.8		50		112	69.51	130.49	51.5	0	0	
Surr: Toluene-d8	50.2		50		100	69.51	130.49	50.3	0	0	
Surr: 4-Bromofluorobenzene	50.8		50		102	69.51	130.49	50.8	0	0	

Sample ID	1710059-02AMS	SampType:	MS	TestCode:	VOC_W	Units:	µg/L
Client ID:	HL-2MS	Batch ID:	A2408	TestNo:	SW8260B		
Prep Date:	10/18/2017	RunNo:	1940	SeqNo:	47787		
Analysis Date:	10/18/2017						

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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Qualifiers: B Analyte detected in the associated Method Bla
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



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QC SUMMARY REPORT

WO#: 1710059

19-Oct-17

Client: CH2M Hill
Project: DSFP Norwalk

TestCode: VOC_W

Sample ID: 1710059-02AMS	SampType: MS	TestCode: VOC_W	Units: µg/L
Client ID: HL-2MS	Batch ID: A2408	TestNo: SW8260B	
Prep Date: 10/18/2017	RunNo: 1940	SeqNo: 47787	
Analysis Date: 10/18/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	72	5	50	0	144	11.51	150.49				
Chloromethane	75.4	10	50	0	151	25.51	146.49				S
Vinyl chloride	71.5	5	50	0	143	45.51	142.49				S
Chloroethane	61.2	5	50	0	122	24.51	164.49				
Bromomethane	88.5	10	50	0	177	9.51	172.49				S
Trichlorofluoromethane	67.8	5	50	0	136	31.51	164.49				
Acetone	1090	50	1000	0	108	9.51	188.49				
1,1-Dichloroethene	65.1	5	50	0	130	61.51	133.49				
Tertiary Butyl Alcohol (TBA)	513	50	500	0	103	43.51	155.49				
Dichloromethane	58.9	10	50	0	118	68.51	130.49				
Freon-113	57.6	5	50	0	115	55.51	144.49				
trans-1,2-Dichloroethene	62.2	5	50	0	124	66.51	131.49				
Methyl tert-butyl ether (MTBE)	65.7	1.25	50	0	131	55.51	140.49				
1,1-Dichloroethane	60	5	50	0	120	66.51	130.49				
2-Butanone (MEK)	1050	50	1000	0	105	25.51	183.49				
Di-isopropyl Ether (DIPE)	62.5	5	50	0	125	58.51	138.49				
cis-1,2-Dichloroethene	59.6	5	50	0	119	69.51	130.49				
Bromochloromethane	58.1	5	50	0	116	69.51	134.49				
Chloroform	54.8	5	50	0	110	68.51	130.49				
Ethyl Tertiary Butyl Ether (ETBE)	63.3	5	50	0	127	61.51	135.49				
2,2-Dichloropropane	73.8	5	50	0	148	43.51	149.49				
1,2-Dichloroethane	57.4	5	50	0	115	63.51	139.49				
1,1,1-Trichloroethane	58.8	5	50	0	118	64.51	139.49				
1,1-Dichloropropene	61.9	5	50	0	124	67.51	134.49				
Carbon tetrachloride	58.8	5	50	0	118	55.51	146.49				
Benzene	58.8	1.25	50	0	118	66.51	134.49				
Tertiary Amyl Methyl Ether (TAME)	60	5	50	0	120	63.51	135.49				
Dibromomethane	57.5	5	50	0	115	69.51	132.49				
1,2-Dichloropropane	57.7	5	50	0	115	68.51	134.49				
Trichloroethene	56.6	5	50	0	113	67.51	138.49				
Bromodichloromethane	57.7	5	50	0	115	57.51	147.49				
4-Methyl-2-pentanone (MIBK)	128	12.5	125	0	102	48.51	140.49				
cis-1,3-Dichloropropene	62.3	5	50	0	125	60.51	130.49				
trans-1,3-Dichloropropene	53.9	5	50	0	108	61.51	131.49				
1,1,2-Trichloroethane	55.4	5	50	0	111	69.51	131.49				
Toluene	55.1	1.25	50	0	110	37.51	130.49				
1,3-Dichloropropane	58.2	5	50	0	116	69.51	130.49				
2-Hexanone	555	25	500	0	111	24.51	157.49				
Dibromochloromethane	58.9	5	50	0	118	48.51	147.49				
1,2-Dibromoethane (EDB)	116	10	100	0	116	69.51	131.49				

Qualifiers:
 B Analyte detected in the associated Method Bla
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



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QC SUMMARY REPORT

WO#: 1710059

19-Oct-17

Client: CH2M Hill
Project: DSFP Norwalk

TestCode: VOC_W

Sample ID: 1710059-02AMS	SampType: MS	TestCode: VOC_W	Units: µg/L
Client ID: HL-2MS	Batch ID: A2408	TestNo: SW8260B	
Prep Date: 10/18/2017	RunNo: 1940	SeqNo: 47787	
Analysis Date: 10/18/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	57.2	5	50	0	114	62.51	134.49				
1,1,1,2-Tetrachloroethane	55.5	5	50	0	111	69.51	133.49				
Chlorobenzene	54.6	5	50	0	109	69.51	130.49				
Ethylbenzene	54.3	1.25	50	0	109	69.51	130.49				
m,p-Xylene	56.6	1.25	50	0	113	64.51	139.49				
Bromoform	58.8	5	50	0	118	59.51	144.49				
Xylenes, Total	113	1.25	100	0	113	69.51	130.49				
Styrene	58.8	5	50	0	118	52.51	144.49				
o-Xylene	56.7	1.25	50	0	113	68.51	130.49				
1,1,2,2-Tetrachloroethane	54.6	5	50	0	109	66.51	134.49				
1,2,3-Trichloropropane	112	10	100	0	112	69.51	130.49				
Isopropylbenzene	53.7	5	50	0	107	63.51	136.49				
Bromobenzene	53.9	5	50	0	108	68.51	130.49				
n-Propylbenzene	54	5	50	0	108	64.51	132.49				
4-Chlorotoluene	53.5	5	50	0	107	68.51	132.49				
2-Chlorotoluene	54	5	50	0	108	68.51	130.49				
1,3,5-Trimethylbenzene	53.1	5	50	0	106	63.51	135.49				
tert-Butylbenzene	51.5	5	50	0	103	62.51	139.49				
1,2,4-Trimethylbenzene	53.5	5	50	0	107	61.51	135.49				
sec-Butylbenzene	51.7	5	50	0	103	67.51	132.49				
1,3-Dichlorobenzene	52.6	5	50	0	105	69.51	130.49				
1,4-Dichlorobenzene	53	5	50	0	106	69.51	130.49				
4-Isopropyltoluene	52.6	5	50	0	105	39.51	161.49				
1,2-Dichlorobenzene	51.7	5	50	0	103	69.51	130.49				
n-Butylbenzene	52.9	5	50	0	106	57.51	135.49				
1,2-Dibromo-3-chloropropane (DBCP)	314	15	250	0	126	62.51	131.49				
1,2,4-Trichlorobenzene	53.2	10	50	0	106	56.51	134.49				
Naphthalene	63.9	10	50	0	128	30.51	157.49				
1,2,3-Trichlorobenzene	57.7	10	50	0	115	51.51	138.49				
Surr: 1,2-Dichloroethane-d4	51.5		50		103	69.51	130.49				
Surr: Toluene-d8	50.3		50		101	69.51	130.49				
Surr: 4-Bromofluorobenzene	50.8		50		102	69.51	130.49				

Qualifiers:
 B Analyte detected in the associated Method Bla
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



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Definition Only

WO#: 1710059

Date:

Definitions:

ND = Not Detected

C = Reported concentration includes additional compounds uncharacteristic of common fuels and lubricants.

D = Reporting Limits were increased due to high concentrations of non-target analytes.

H = Reporting Limits were increased due to the hydrocarbons present in the sample.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

K = DRO concentration may include contributions from lighter-end hydrocarbons (e.g. gasoline) that elute in the DRO range.

L = DRO concentration may include contributions from heavier-end hydrocarbons (e.g. motor oil) that elute in the DRO range.

O = Reporting Limits were increased due to sample foaming.

V = Reporting Limits were increased due to high concentrations of target analytes.

X = Reporting Limits were increased due to sample matrix interferences.

Z = DRO concentration may include contributions from lighter-end (e.g. gasoline) and heavier-end (e.g. motor oil) hydrocarbons that elute in the DRO range.

S50 = The analysis of the sample required a dilution such that the surrogate concentration was diluted below the laboratory acceptance criteria. The laboratory control sample was acceptable.

S51 = Surrogate recovery could not be determined due to the presence of co-eluting hydrocarbons.

S52 = Surrogate recovery was above laboratory acceptance limits. Probable matrix effect.

S53 = Surrogate recovery was below laboratory acceptance limits. Probable matrix effect.

S54 = Surrogate recovery was below laboratory acceptance limits.

S55 = Surrogate recovery was above laboratory acceptance limits.



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Definition Only

WO#: 1710059

Date:

Definitions:

Report CC's Benny Pataray
Eric Davis
Krystle Remmen
Vladimir Carino

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Ave, #21 Sparks, Nevada 89431
TEL: (775) 355-1044 FAX: (775) 355-0406

CA **AMENDED**

WorkOrder: CHH1710059
Report Due By: 17-Oct-17
EDD Required: YES

Report Attention: Eric Davis

Client:

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017

TEL: 2132288271
FAX: 7144242135
ProjectNo: DSFP Norwalk

Date Received: 06-Oct-17

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles			Requested Tests						Sample Remarks		
				Alpha	Sub	TAT	TPH/E_W	TPH/P_W	VOC_W						
CHH1710059-01	TB-3	AQ	10/5/2017 8:00:00 AM	2	0	7			A - Partial						Reno TB 10/02/17
CHH1710059-02	HL-2	AQ	10/5/2017 8:54:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710059-03	GMW-26	AQ	10/5/2017 9:36:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710059-04	HL-3	AQ	10/5/2017 10:20:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710059-05	GWR-1R	AQ	10/5/2017 11:07:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710059-06	GMW-8	AQ	10/5/2017 12:14:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710059-07	GMW-36	AQ	10/5/2017 1:05:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710059-08	MW-18 (Mid)	AQ	10/5/2017 1:54:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710059-09	P2-2	AQ	10/5/2017 2:45:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710059-10	DUP-2	AQ	10/5/2017	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						

Comments: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. Amended 10/19/2017 to correct sample id for sample -05. due to login error. EH

Logged in by:	Signature	Print Name	Company	Date/Time
		Elisaibet Hernandez	Alpha Analytical, Inc.	10/19/17 10:24

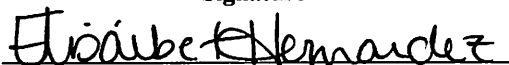
NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

AMENDED

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles			Requested Tests						Sample Remarks	
				Alpha	Sub	TAT	TPHE_W	TPHP_W	VOC_W					
CHH1710059-11	GMW-4R	AQ	10/5/2017 8:48:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710059-12	GMW-14R	AQ	10/5/2017 9:33:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710059-13	MW-15R	AQ	10/5/2017 10:15:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710059-14	MW-9	AQ	10/5/2017 11:03:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710059-15	PZ-5	AQ	10/5/2017 12:03:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710059-16	GMW-28	AQ	10/5/2017 1:03:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710059-17	GMW-8	AQ	10/5/2017 1:51:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710059-18	DUP-5	AQ	10/5/2017	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710059-19	DUP-4	AQ	10/5/2017	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710059-20	DUP-3	AQ	10/5/2017	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710059-21	GMW-25	AQ	10/5/2017 2:42:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710059-22	EB-6	AQ	10/5/2017 3:05:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710059-23	DUP-6	AQ	10/5/2017	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710059-24	EB-5	AQ	10/5/2017 3:00:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					

Comments: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. Amended 10/19/2017 to correct sample id for sample -05, due to login error. EH

	Signature	Print Name	Company	Date/Time
Logged in by:		Elisabet Hernandez	Alpha Analytical, Inc.	10/19/17 10:24

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Report CC's Benny Pataray
 Daniel Jablonski
 Eric Davis
 Krystle Remmen
 Vladimir Carino

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Ave, #21 Sparks, Nevada 89431
 TEL: (775) 355-1044 FAX: (775) 355-0406

CA

WorkOrder: CHH1710059
 Report Due By: 17-Oct-17
 EDD Required: YES

Report Attention: Daniel Jablonski

Client:

CH2M Hill
 1000 Wilshire Boulevard
 Los Angeles, CA 90017

TEL: 2132288271
 FAX: 7144242135
 ProjectNo: DSFP Norwalk

Date Received: 06-Oct-17

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles			Requested Tests						Sample Remarks		
				Alpha	Sub	TAT	TPH/E_W	TPH/P_W	VOC_W						
CHH1710059-01	TB-3	AQ	10/5/2017 8:00:00 AM	2	0	7			A - Partial						Reno TB 10/02/17
CHH1710059-02	HL-2	AQ	10/5/2017 8:54:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710059-03	GMW-26	AQ	10/5/2017 9:36:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710059-04	HL-3	AQ	10/5/2017 10:20:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710059-05	GMR-1R	AQ	10/5/2017 11:07:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710059-06	GMW-8	AQ	10/5/2017 12:14:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710059-07	GMW-36	AQ	10/5/2017 1:05:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710059-08	MW-18 (Mid)	AQ	10/5/2017 1:54:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710059-09	P2-2	AQ	10/5/2017 2:45:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710059-10	DUP-2	AQ	10/5/2017	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						

Comments: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values.

Signature	Print Name	Company	Date/Time
Logged in by: <i>Elisabet Hernandez</i>	<i>Elisabet Hernandez</i>	Alpha Analytical, Inc.	10/06/17 11:58

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles			Requested Tests						Sample Remarks	
				Alpha	Sub	TAT	TPH/E_W	TPH/P_W	VOC_W					
CHH1710059-11	GMW-4R	AQ	10/5/2017 8:48:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710059-12	GMW-14R	AQ	10/5/2017 9:33:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710059-13	MW-15R	AQ	10/5/2017 10:15:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710059-14	MW-9	AQ	10/5/2017 11:03:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710059-15	PZ-5	AQ	10/5/2017 12:03:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710059-16	GMW-28	AQ	10/5/2017 1:03:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710059-17	GMW-9	AQ	10/5/2017 1:51:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710059-18	DUP-5	AQ	10/5/2017	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710059-19	DUP-4	AQ	10/5/2017	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710059-20	DUP-3	AQ	10/5/2017	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710059-21	GMW-25	AQ	10/5/2017 2:42:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710059-22	EB-6	AQ	10/5/2017 3:05:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710059-23	DUP-6	AQ	10/5/2017	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710059-24	EB-5	AQ	10/5/2017 3:00:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					

Comments: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values.

Signature	Print Name	Company	Date/Time
Elisabet Hernandez	Elisabet Hernandez	Alpha Analytical, Inc.	10/4/17 11:58

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB

Alpha Analytical COC 1 of 3

Billing Information:
Kinder Morgan
1100 Town and Country Rd.
Orange CA 95112

Kinder Morgan Norwalk
Report to:
Dan Jablonski
CH2MHILL
1000 Wilshire Blvd 21st floor
Los Angeles, CA 90017

CHAIN OF CUSTODY

CLIENT Kinder Morgan

SITE DFSP Norwalk

15306 Norwalk Blvd, Norwalk

SAMPLE I.D.	DATE	TIME	MATRIX AQ= Water	CONTAINERS		TPHg, TPHd (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)							ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
				#	Preservation												
TB-3	10/5/17	0800	AQ	2	HCl	VOA	X										CH11710059-01
HL-2	10/5/17	0854	AQ	6	HCl	VOA	X	X									02
GWL-26	10/5/17	0936	AQ	6	HCl	VOA	X	X									03
HL-3	10/5/17	1020	AQ	6	HCl	VOA	X	X									04
GWR-12	10/5/17	1107	AQ	6	HCl	VOA	X	X									05
GWL-8	10/5/17	1214	AQ	6	HCl	VOA	X	X									06
GWL-36	10/5/17	1305	AQ	6	HCl	VOA	X	X									07
nw-10	10/5/17	1354	AQ	6	HCl	VOA	X	X									08
P2-2	10/5/17	1445	AQ	6	HCl	VOA	X	X									09
DUP-2	10/5/17	-	AQ	6	HCl	VOA	X	X									10

SAMPLING COMPLETED DATE 10/5/17 TIME 1500 SAMPLING PERFORMED BY *D. J. [Signature]* RESULTS NEEDED NO LATER THAN Standard

RELEASED BY *[Signature]* TIME 1600 RECEIVED BY *[Signature]* DATE 10/5/17 TIME 1600

RELEASED BY *[Signature]* TIME RECEIVED BY *[Signature]* DATE 10.5.17 TIME 1700

RELEASED BY *[Signature]* TIME 1800 RECEIVED BY *Elisabet Hernandez* DATE 10/06/17 TIME 11:58

SHIPPED VIA TIME SENT COOLER #

BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB

Alpha Analytical COC 2 of 3

Billing Information:
 Kinder Morgan
 1100 Town and Country Rd.
 Orange CA 95112

Kinder Morgan Norwalk
 Report to:
 Dan Jablonski
 CH2MHILL
 1000 Wilshire Blvd 21st floor
 Los Angeles, CA 90017

CHAIN OF CUSTODY

CLIENT Kinder Morgan

SITE DFSP Norwalk

15306 Norwalk Blvd, Norwalk

SAMPLE I.D.	DATE	TIME	MATRIX AQ= Water	CONTAINERS			TPHg, TPHd (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)							ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
				#	Preservation	Type												
GMW-4R	10/5/17	0848	AQ	6	HCl	VDA's	x	x										CHH1710059-11
GMW-14R		0933																12
MW-15R		1015																13
MW-9		1103																14
PZ-5		1203																15
GMW-28		1303																16
GMW-9		1351																17
DUP-5																		18
DUP-4																		19
DUP-3																		20

SAMPLING COMPLETED DATE 10/5/2017 TIME 1505 SAMPLING PERFORMED BY Patrick Ho RESULTS NEEDED NO LATER THAN Standard

RELEASED BY [Signature] TIME 1610 RECEIVED BY [Signature] DATE 10/5/17 TIME 1610

RELEASED BY [Signature] TIME 1700 RECEIVED BY [Signature] DATE 10/5/17 TIME 1700

RELEASED BY [Signature] TIME 1800 RECEIVED BY Eliabet Hernandez DATE 10/06/17 TIME 11:58

SHIPPED VIA TIME SENT COOLER #

BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB

Alpha Analytical COC 3 of 3

Billing Information:
 Kinder Morgan
 1100 Town and Country Rd.
 Orange CA 95112

Kinder Morgan Norwalk
 Report to:
 Dan Jablonski
 CH2MHILL
 1000 Wilshire Blvd 21st floor
 Los Angeles, CA 90017

CHAIN OF CUSTODY

CLIENT Kinder Morgan

SITE DFSP Norwalk

15306 Norwalk Blvd, Norwalk

SAMPLE I.D.	DATE	TIME	MATRIX AQ= Water	CONTAINERS			TPHg, TPHd (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)								ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
				#	Preservation	Type													
GMW-25	10/5/17	1442	AQ	6	HCl	VOAs	X	X											CHH1710059-21
EB-6	10/5/17	1505	AQ	6	HCl	VOAs	X	X											↓ 22
DJP-6	10/5/17	-	AQ	6	HCl	VOA	X	X											23
EB-5	10/5/17	1500	AQ	6	HCl	VOA	X	X											24

SAMPLING COMPLETED DATE 10/5/2017 TIME 1505 SAMPLING PERFORMED BY Patrick Flo RESULTS NEEDED NO LATER THAN Standard

RELEASED BY [Signature] TIME 1610 RECEIVED BY [Signature] DATE 10/5/17 TIME 1610

RELEASED BY [Signature] TIME [Signature] RECEIVED BY [Signature] DATE 10-5-17 TIME 1700

RELEASED BY [Signature] TIME 1800 RECEIVED BY Elvaibet Romandez DATE 10/06/17 TIME 1158

SHIPPED VIA TIME SENT COOLER # Page 79 of 79



Alpha Analytical, Inc
255 Glendale Ave, #21
Sparks, Nevada 89431
TEL: (775) 355-1044 FAX: (775) 355-0406
Website: www.alpha-analytical.com

October 18, 2017

Eric Davis
CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
TEL: (213) 228-8271
FAX (714) 424-2135

RE: DFSP Norwalk

Dear Eric Davis:

Order No.: CHH1710072

There were no problems with the analytical events associated with this report unless noted.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink that reads "Roger Scholl". The signature is written in a cursive, flowing style.

Roger Scholl
Laboratory Director
255 Glendale Ave, #21
Sparks, Nevada 89431



Alpha Analytical, Inc.

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710072

Report Date: 10/18/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710072-01
Client Sample ID TB-4

Collection Date: 10/6/2017 8:00:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Dichlorodifluoromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/18/201	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/18/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/18/201	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Tetrachloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710072

Report Date: 10/18/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710072-01
Client Sample ID TB-4

Collection Date: 10/6/2017 8:00:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Styrene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	10/18/201	VOCs by EPA 8260B
Surr: Toluene-d8	105	70-130		%Rec	10/18/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	10/18/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710072

Report Date: 10/18/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710072-02
Client Sample ID MW-SF-1

Collection Date: 10/6/2017 8:23:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	0.57	0.050		mg/L	10/11/201	TPH-E by EPA 8015C
Surr: Nonane	98	35-151		%Rec	10/11/201	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.10	O	mg/L	10/18/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	96	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Surr: Toluene-d8	107	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Chloromethane	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
Vinyl chloride	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromomethane	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Acetone	ND	20		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/18/201	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Carbon disulfide	ND	5.0		µg/L	10/18/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Vinyl acetate	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	20		µg/L	10/18/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
2-Hexanone	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710072

Report Date: 10/18/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710072-02
Client Sample ID MW-SF-1

Collection Date: 10/6/2017 8:23:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	6.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	96	70-130		%Rec	10/18/201	VOCs by EPA 8260B
Surr: Toluene-d8	107	70-130		%Rec	10/18/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	10/18/201	VOCs by EPA 8260B

NOTES:

Some Reporting Limits were increased due to sample foaming.



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710072

Report Date: 10/18/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710072-03
Client Sample ID MW-SF-4

Collection Date: 10/6/2017 9:03:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	3.3	0.50		mg/L	10/11/201	TPH-E by EPA 8015C
Surr: Nonane	101	35-151		%Rec	10/11/201	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.20	O	mg/L	10/18/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	99	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Surr: Toluene-d8	107	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Chloromethane	ND	8.0		µg/L	10/18/201	VOCs by EPA 8260B
Vinyl chloride	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Chloroethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromomethane	ND	8.0		µg/L	10/18/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Acetone	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	20		µg/L	10/18/201	VOCs by EPA 8260B
Dichloromethane	ND	8.0		µg/L	10/18/201	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Carbon disulfide	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Vinyl acetate	ND	200		µg/L	10/18/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromochloromethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Chloroform	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichloroethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Benzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Dibromomethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Trichloroethene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromodichloromethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Toluene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
2-Hexanone	ND	20		µg/L	10/18/201	VOCs by EPA 8260B
Dibromochloromethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	8.0		µg/L	10/18/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710072

Report Date: 10/18/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710072-03
Client Sample ID MW-SF-4

Collection Date: 10/6/2017 9:03:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Chlorobenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Ethylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
m,p-Xylene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromoform	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Xylenes, Total	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Styrene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
o-Xylene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	8.0		µg/L	10/18/201	VOCs by EPA 8260B
Isopropylbenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromobenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
n-Propylbenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
n-Butylbenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	12		µg/L	10/18/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	8.0		µg/L	10/18/201	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	8.0		µg/L	10/18/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	99	70-130		%Rec	10/18/201	VOCs by EPA 8260B
Surr: Toluene-d8	107	70-130		%Rec	10/18/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	10/18/201	VOCs by EPA 8260B

NOTES:

Reporting Limits were increased due to sample foaming.



Alpha Analytical, Inc.

Analytical Report

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

WO#: CHH1710072

Report Date: 10/18/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710072-04
Client Sample ID GMW-30

Collection Date: 10/6/2017 9:44:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	3.5	0.050		mg/L	10/11/201	TPH-E by EPA 8015C
Surr: Nonane	95	35-151		%Rec	10/11/201	TPH-E by EPA 8015C
TPH-P (GRO)	0.28	0.050		mg/L	10/18/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Surr: Toluene-d8	105	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	28	10		µg/L	10/18/201	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/18/201	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/18/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	1.2	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloroethane	1.5	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	4.9	1.0		µg/L	10/18/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Benzene	28	0.50		µg/L	10/18/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/18/201	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710072

Report Date: 10/18/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710072-04
Client Sample ID GMW-30

Collection Date: 10/6/2017 9:44:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Ethylbenzene	1.7	0.50		µg/L	10/18/201	VOCs by EPA 8260B
m,p-Xylene	2.1	0.50		µg/L	10/18/201	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Xylenes, Total	4.6	0.50		µg/L	10/18/201	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
o-Xylene	2.5	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Isopropylbenzene	1.0	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
n-Propylbenzene	2.5	1.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	4.6	1.0		µg/L	10/18/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	9.5	1.0		µg/L	10/18/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	10/18/201	VOCs by EPA 8260B
Surr: Toluene-d8	105	70-130		%Rec	10/18/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	10/18/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

Analytical Report

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

WO#: CHH1710072

Report Date: 10/18/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710072-05
Client Sample ID GMW-O-21

Collection Date: 10/6/2017 11:02:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	0.75	0.050		mg/L	10/11/201	TPH-E by EPA 8015C
Surr: Nonane	95	35-151		%Rec	10/11/201	TPH-E by EPA 8015C
TPH-P (GRO)	9.7	4.0		mg/L	10/18/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	92	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Surr: Toluene-d8	107	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
Chloromethane	ND	160		µg/L	10/18/201	VOCs by EPA 8260B
Vinyl chloride	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
Chloroethane	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
Bromomethane	ND	160		µg/L	10/18/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
Acetone	ND	800		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	400		µg/L	10/18/201	VOCs by EPA 8260B
Dichloromethane	ND	160		µg/L	10/18/201	VOCs by EPA 8260B
Freon-113	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
Carbon disulfide	ND	200		µg/L	10/18/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	20		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
Vinyl acetate	ND	4,000		µg/L	10/18/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	800		µg/L	10/18/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	52	40		µg/L	10/18/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
Bromochloromethane	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
Chloroform	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichloroethane	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
Benzene	4,300	20		µg/L	10/18/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
Dibromomethane	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
Trichloroethene	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
Bromodichloromethane	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	200		µg/L	10/18/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
Toluene	ND	20		µg/L	10/18/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
2-Hexanone	ND	400		µg/L	10/18/201	VOCs by EPA 8260B
Dibromochloromethane	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	160		µg/L	10/18/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710072

Report Date: 10/18/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710072-05
Client Sample ID GMW-O-21

Collection Date: 10/6/2017 11:02:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
Chlorobenzene	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
Ethylbenzene	22	20		µg/L	10/18/201	VOCs by EPA 8260B
m,p-Xylene	ND	20		µg/L	10/18/201	VOCs by EPA 8260B
Bromoform	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
Xylenes, Total	ND	20		µg/L	10/18/201	VOCs by EPA 8260B
Styrene	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
o-Xylene	ND	20		µg/L	10/18/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	160		µg/L	10/18/201	VOCs by EPA 8260B
Isopropylbenzene	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
Bromobenzene	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
n-Propylbenzene	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
n-Butylbenzene	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	240		µg/L	10/18/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	160		µg/L	10/18/201	VOCs by EPA 8260B
Naphthalene	310	160		µg/L	10/18/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	160		µg/L	10/18/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	92	70-130		%Rec	10/18/201	VOCs by EPA 8260B
Surr: Toluene-d8	107	70-130		%Rec	10/18/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	10/18/201	VOCs by EPA 8260B

NOTES:

Reporting Limits were increased due to high concentrations of target analytes.



Alpha Analytical, Inc.

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710072

Report Date: 10/18/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710072-06
Client Sample ID MW-O-2

Collection Date: 10/6/2017 11:42:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	11	0.050		mg/L	10/11/201	TPH-E by EPA 8015C
Surr: Nonane	91	35-151		%Rec	10/11/201	TPH-E by EPA 8015C
TPH-P (GRO)	23	10		mg/L	10/18/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	96	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Surr: Toluene-d8	108	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
Chloromethane	ND	400		µg/L	10/18/201	VOCs by EPA 8260B
Vinyl chloride	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
Chloroethane	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
Bromomethane	ND	400		µg/L	10/18/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
Acetone	ND	2,000		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	1,500	1,000		µg/L	10/18/201	VOCs by EPA 8260B
Dichloromethane	ND	400		µg/L	10/18/201	VOCs by EPA 8260B
Freon-113	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
Carbon disulfide	ND	500		µg/L	10/18/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	210	50		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
Vinyl acetate	ND	10,000		µg/L	10/18/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	2,000		µg/L	10/18/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	130	100		µg/L	10/18/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
Bromochloromethane	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
Chloroform	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichloroethane	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
Benzene	9,400	50		µg/L	10/18/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
Dibromomethane	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
Trichloroethene	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
Bromodichloromethane	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	500		µg/L	10/18/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
Toluene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
2-Hexanone	ND	1,000		µg/L	10/18/201	VOCs by EPA 8260B
Dibromochloromethane	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	400		µg/L	10/18/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710072

Report Date: 10/18/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710072-06
Client Sample ID MW-O-2

Collection Date: 10/6/2017 11:42:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
Chlorobenzene	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
Ethylbenzene	99	50		µg/L	10/18/201	VOCs by EPA 8260B
m,p-Xylene	750	50		µg/L	10/18/201	VOCs by EPA 8260B
Bromoform	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
Xylenes, Total	820	50		µg/L	10/18/201	VOCs by EPA 8260B
Styrene	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
o-Xylene	66	50		µg/L	10/18/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	400		µg/L	10/18/201	VOCs by EPA 8260B
Isopropylbenzene	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
Bromobenzene	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
n-Propylbenzene	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	270	100		µg/L	10/18/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	510	100		µg/L	10/18/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
n-Butylbenzene	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	600		µg/L	10/18/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	400		µg/L	10/18/201	VOCs by EPA 8260B
Naphthalene	ND	400		µg/L	10/18/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	400		µg/L	10/18/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	96	70-130		%Rec	10/18/201	VOCs by EPA 8260B
Surr: Toluene-d8	108	70-130		%Rec	10/18/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	10/18/201	VOCs by EPA 8260B

NOTES:

Reporting Limits were increased due to high concentrations of target analytes.



Alpha Analytical, Inc.

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710072

Report Date: 10/18/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710072-07
Client Sample ID WCW-7

Collection Date: 10/6/2017 1:10:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	0.12	0.10	CL	mg/L	10/11/201	TPH-E by EPA 8015C
Surr: Nonane	92	35-151		%Rec	10/11/201	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/18/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Surr: Toluene-d8	104	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Acetone	26	10		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/18/201	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/18/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	1.2	1.0		µg/L	10/18/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichloroethane	4.8	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Benzene	1.2	0.50		µg/L	10/18/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/18/201	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
 225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710072

Report Date: 10/18/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710072-07
Client Sample ID WCW-7

Collection Date: 10/6/2017 1:10:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	10/18/201	VOCs by EPA 8260B
Surr: Toluene-d8	104	70-130		%Rec	10/18/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	10/18/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710072

Report Date: 10/18/2017

CLIENT: CH2M Hill **Collection Date:** 10/6/2017 1:25:00 PM
Project: DFSP Norwalk
Lab ID: 1710072-08 **Matrix:** AQUEOUS
Client Sample ID EB-7

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/11/201	TPH-E by EPA 8015C
Surr: Nonane	94	35-151		%Rec	10/11/201	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/18/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Surr: Toluene-d8	107	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/18/201	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/18/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/18/201	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710072

Report Date: 10/18/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710072-08
Client Sample ID EB-7

Collection Date: 10/6/2017 1:25:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	10/18/201	VOCs by EPA 8260B
Surr: Toluene-d8	107	70-130		%Rec	10/18/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	10/18/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710072

Report Date: 10/18/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710072-09
Client Sample ID MW-SF-13

Collection Date: 10/6/2017 8:12:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	2.7	0.10		mg/L	10/11/201	TPH-E by EPA 8015C
Surr: Nonane	96	35-151		%Rec	10/11/201	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.10	O	mg/L	10/18/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	93	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Surr: Toluene-d8	107	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Chloromethane	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
Vinyl chloride	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromomethane	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Acetone	ND	20		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	18	10		µg/L	10/18/201	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/18/201	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Carbon disulfide	ND	5.0		µg/L	10/18/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	0.98	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Vinyl acetate	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	20		µg/L	10/18/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	2.6	1.0		µg/L	10/18/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Benzene	2.0	0.50		µg/L	10/18/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Toluene	0.67	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
2-Hexanone	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710072

Report Date: 10/18/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710072-09
Client Sample ID MW-SF-13

Collection Date: 10/6/2017 8:12:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	6.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	93	70-130		%Rec	10/18/201	VOCs by EPA 8260B
Surr: Toluene-d8	107	70-130		%Rec	10/18/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	10/18/201	VOCs by EPA 8260B

NOTES:

Some Reporting Limits were increased due to sample foaming.



Alpha Analytical, Inc.

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710072

Report Date: 10/18/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710072-10
Client Sample ID MW-SF-6

Collection Date: 10/6/2017 8:55:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	71	0.10		mg/L	10/11/201	TPH-E by EPA 8015C
Surr: Nonane	55	35-151		%Rec	10/11/201	TPH-E by EPA 8015C
TPH-P (GRO)	1.3	0.20		mg/L	10/18/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	98	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Surr: Toluene-d8	106	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Chloromethane	ND	8.0		µg/L	10/18/201	VOCs by EPA 8260B
Vinyl chloride	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Chloroethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromomethane	ND	8.0		µg/L	10/18/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Acetone	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	32	20		µg/L	10/18/201	VOCs by EPA 8260B
Dichloromethane	ND	8.0		µg/L	10/18/201	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Carbon disulfide	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	3.1	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Vinyl acetate	ND	200		µg/L	10/18/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	4.2	2.0		µg/L	10/18/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromochloromethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Chloroform	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichloroethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Benzene	98	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Dibromomethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Trichloroethene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromodichloromethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Toluene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
2-Hexanone	ND	20		µg/L	10/18/201	VOCs by EPA 8260B
Dibromochloromethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	8.0		µg/L	10/18/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710072

Report Date: 10/18/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710072-10
Client Sample ID MW-SF-6

Collection Date: 10/6/2017 8:55:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Chlorobenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Ethylbenzene	32	1.0		µg/L	10/18/201	VOCs by EPA 8260B
m,p-Xylene	47	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromoform	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Xylenes, Total	53	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Styrene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
o-Xylene	6.9	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	8.0		µg/L	10/18/201	VOCs by EPA 8260B
Isopropylbenzene	3.8	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromobenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
n-Propylbenzene	7.6	2.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	6.4	2.0		µg/L	10/18/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	68	2.0		µg/L	10/18/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
n-Butylbenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	12		µg/L	10/18/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	8.0		µg/L	10/18/201	VOCs by EPA 8260B
Naphthalene	16	10		µg/L	10/18/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	8.0		µg/L	10/18/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	98	70-130		%Rec	10/18/201	VOCs by EPA 8260B
Surr: Toluene-d8	106	70-130		%Rec	10/18/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	10/18/201	VOCs by EPA 8260B

NOTES:

Reporting Limits were increased due to high concentrations of target analytes.



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710072

Report Date: 10/18/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710072-11
Client Sample ID MW-SF-15

Collection Date: 10/6/2017 9:39:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	1.3	0.050		mg/L	10/11/201	TPH-E by EPA 8015C
Surr: Nonane	103	35-151		%Rec	10/11/201	TPH-E by EPA 8015C
TPH-P (GRO)	0.11	0.10		mg/L	10/18/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	98	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Surr: Toluene-d8	106	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Chloromethane	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
Vinyl chloride	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromomethane	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Acetone	ND	20		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	180	10		µg/L	10/18/201	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/18/201	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Carbon disulfide	5.6	5.0		µg/L	10/18/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	1.3	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Vinyl acetate	ND	100		µg/L	10/18/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	20		µg/L	10/18/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	52	1.0		µg/L	10/18/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Benzene	1.5	0.50		µg/L	10/18/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
2-Hexanone	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710072

Report Date: 10/18/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710072-11
Client Sample ID MW-SF-15

Collection Date: 10/6/2017 9:39:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	6.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	98	70-130		%Rec	10/18/201	VOCs by EPA 8260B
Surr: Toluene-d8	106	70-130		%Rec	10/18/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	10/18/201	VOCs by EPA 8260B

NOTES:

Some Reporting Limits were increased due to sample foaming.



Alpha Analytical, Inc.

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710072

Report Date: 10/18/2017

CLIENT: CH2M Hill **Collection Date:** 10/6/2017 11:01:00 AM
Project: DFSP Norwalk
Lab ID: 1710072-12 **Matrix:** AQUEOUS
Client Sample ID GMW-O-20

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	21	0.050		mg/L	10/11/201	TPH-E by EPA 8015C
Surr: Nonane	97	35-151		%Rec	10/11/201	TPH-E by EPA 8015C
TPH-P (GRO)	6.5	0.40		mg/L	10/18/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	98	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Surr: Toluene-d8	104	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
Chloromethane	ND	16		µg/L	10/18/201	VOCs by EPA 8260B
Vinyl chloride	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
Chloroethane	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromomethane	ND	16		µg/L	10/18/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Acetone	ND	80		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
Dichloromethane	ND	16		µg/L	10/18/201	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Carbon disulfide	ND	20		µg/L	10/18/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	7.4	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
Vinyl acetate	ND	400		µg/L	10/18/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	80		µg/L	10/18/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	10	4.0		µg/L	10/18/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromochloromethane	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
Chloroform	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichloroethane	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
Benzene	460	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
Dibromomethane	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
Trichloroethene	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromodichloromethane	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	20		µg/L	10/18/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
Toluene	16	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
2-Hexanone	ND	40		µg/L	10/18/201	VOCs by EPA 8260B
Dibromochloromethane	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	16		µg/L	10/18/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710072

Report Date: 10/18/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710072-12
Client Sample ID GMW-O-20

Collection Date: 10/6/2017 11:01:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
Chlorobenzene	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
Ethylbenzene	36	2.0		µg/L	10/18/201	VOCs by EPA 8260B
m,p-Xylene	170	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromoform	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
Xylenes, Total	290	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Styrene	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
o-Xylene	130	2.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	16		µg/L	10/18/201	VOCs by EPA 8260B
Isopropylbenzene	17	4.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromobenzene	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
n-Propylbenzene	35	4.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	150	4.0		µg/L	10/18/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	380	4.0		µg/L	10/18/201	VOCs by EPA 8260B
sec-Butylbenzene	15	4.0		µg/L	10/18/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Isopropyltoluene	7.9	4.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	4.0		µg/L	10/18/201	VOCs by EPA 8260B
n-Butylbenzene	11	4.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	24		µg/L	10/18/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	16		µg/L	10/18/201	VOCs by EPA 8260B
Naphthalene	86	16		µg/L	10/18/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	16		µg/L	10/18/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	98	70-130		%Rec	10/18/201	VOCs by EPA 8260B
Surr: Toluene-d8	104	70-130		%Rec	10/18/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	10/18/201	VOCs by EPA 8260B

NOTES:

Reporting Limits were increased due to high concentrations of target analytes.



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710072

Report Date: 10/18/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710072-13
Client Sample ID GMW-O-23

Collection Date: 10/6/2017 12:08:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	1.3	0.050		mg/L	10/11/201	TPH-E by EPA 8015C
Surr: Nonane	89	35-151		%Rec	10/11/201	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/18/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	98	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Surr: Toluene-d8	106	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Acetone	10	10		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	24	10		µg/L	10/18/201	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/18/201	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/18/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	0.99	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	4.9	1.0		µg/L	10/18/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Benzene	0.78	0.50		µg/L	10/18/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/18/201	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B



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 225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710072

Report Date: 10/18/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710072-13
Client Sample ID GMW-O-23

Collection Date: 10/6/2017 12:08:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Ethylbenzene	0.60	0.50		µg/L	10/18/201	VOCs by EPA 8260B
m,p-Xylene	1.2	0.50		µg/L	10/18/201	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Xylenes, Total	2.1	0.50		µg/L	10/18/201	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
o-Xylene	0.89	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	1.1	1.0		µg/L	10/18/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	1.2	1.0		µg/L	10/18/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	98	70-130		%Rec	10/18/201	VOCs by EPA 8260B
Surr: Toluene-d8	106	70-130		%Rec	10/18/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	10/18/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710072

Report Date: 10/18/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710072-14
Client Sample ID GMW-O-14

Collection Date: 10/6/2017 12:50:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	2.3	0.050		mg/L	10/12/201	TPH-E by EPA 8015C
Surr: Nonane	114	35-151		%Rec	10/12/201	TPH-E by EPA 8015C
TPH-P (GRO)	13	5.0		mg/L	10/18/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	95	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Surr: Toluene-d8	108	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Chloromethane	ND	200		µg/L	10/18/201	VOCs by EPA 8260B
Vinyl chloride	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Chloroethane	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Bromomethane	ND	200		µg/L	10/18/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Acetone	ND	1,000		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	500		µg/L	10/18/201	VOCs by EPA 8260B
Dichloromethane	ND	200		µg/L	10/18/201	VOCs by EPA 8260B
Freon-113	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Carbon disulfide	ND	250		µg/L	10/18/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	25		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Vinyl acetate	ND	5,000		µg/L	10/18/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	1,000		µg/L	10/18/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	190	50		µg/L	10/18/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Bromochloromethane	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Chloroform	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichloroethane	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Benzene	5,700	25		µg/L	10/18/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Dibromomethane	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Trichloroethene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Bromodichloromethane	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	250		µg/L	10/18/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Toluene	140	25		µg/L	10/18/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
2-Hexanone	ND	500		µg/L	10/18/201	VOCs by EPA 8260B
Dibromochloromethane	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	200		µg/L	10/18/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

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225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710072

Report Date: 10/18/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710072-14
Client Sample ID GMW-O-14

Collection Date: 10/6/2017 12:50:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Chlorobenzene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Ethylbenzene	190	25		µg/L	10/18/201	VOCs by EPA 8260B
m,p-Xylene	99	25		µg/L	10/18/201	VOCs by EPA 8260B
Bromoform	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Xylenes, Total	150	25		µg/L	10/18/201	VOCs by EPA 8260B
Styrene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
o-Xylene	49	25		µg/L	10/18/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	200		µg/L	10/18/201	VOCs by EPA 8260B
Isopropylbenzene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Bromobenzene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
n-Propylbenzene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	72	50		µg/L	10/18/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
n-Butylbenzene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	300		µg/L	10/18/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	200		µg/L	10/18/201	VOCs by EPA 8260B
Naphthalene	ND	200		µg/L	10/18/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	200		µg/L	10/18/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	95	70-130		%Rec	10/18/201	VOCs by EPA 8260B
Surr: Toluene-d8	108	70-130		%Rec	10/18/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	10/18/201	VOCs by EPA 8260B

NOTES:

Reporting Limits were increased due to high concentrations of target analytes.



Alpha Analytical, Inc.

Analytical Report

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

WO#: CHH1710072

Report Date: 10/18/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710072-15
Client Sample ID GMW-23

Collection Date: 10/6/2017 2:18:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	17	0.050		mg/L	10/12/201	TPH-E by EPA 8015C
Surr: Nonane	101	35-151		%Rec	10/12/201	TPH-E by EPA 8015C
TPH-P (GRO)	0.23	0.050		mg/L	10/18/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	98	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Surr: Toluene-d8	106	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	48	10		µg/L	10/18/201	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/18/201	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/18/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	9.6	1.0		µg/L	10/18/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/18/201	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
 225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710072

Report Date: 10/18/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710072-15
Client Sample ID GMW-23

Collection Date: 10/6/2017 2:18:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Ethylbenzene	1.3	0.50		µg/L	10/18/201	VOCs by EPA 8260B
m,p-Xylene	1.4	0.50		µg/L	10/18/201	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Xylenes, Total	1.4	0.50		µg/L	10/18/201	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	1.4	1.0		µg/L	10/18/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	4.0	1.0		µg/L	10/18/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	98	70-130		%Rec	10/18/201	VOCs by EPA 8260B
Surr: Toluene-d8	106	70-130		%Rec	10/18/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	10/18/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

Analytical Report

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

WO#: CHH1710072

Report Date: 10/18/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710072-16
Client Sample ID EB-8

Collection Date: 10/6/2017 2:30:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	0.050		mg/L	10/12/201	TPH-E by EPA 8015C
Surr: Nonane	89	35-151		%Rec	10/12/201	TPH-E by EPA 8015C
TPH-P (GRO)	ND	0.050		mg/L	10/18/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Surr: Toluene-d8	107	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Chloromethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Vinyl chloride	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
Chloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromomethane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Acetone	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Dichloromethane	ND	5.0		µg/L	10/18/201	VOCs by EPA 8260B
Freon-113	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Carbon disulfide	ND	2.5		µg/L	10/18/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Vinyl acetate	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromochloromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Chloroform	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichloroethane	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Benzene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Dibromomethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Trichloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromodichloromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Toluene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
2-Hexanone	ND	5.0		µg/L	10/18/201	VOCs by EPA 8260B
Dibromochloromethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710072

Report Date: 10/18/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710072-16
Client Sample ID EB-8

Collection Date: 10/6/2017 2:30:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Chlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Ethylbenzene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
m,p-Xylene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
Bromoform	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Xylenes, Total	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
Styrene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
o-Xylene	ND	0.50		µg/L	10/18/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Isopropylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
Bromobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
n-Propylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
n-Butylbenzene	ND	1.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0		µg/L	10/18/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Naphthalene	ND	10		µg/L	10/18/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	2.0		µg/L	10/18/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	10/18/201	VOCs by EPA 8260B
Surr: Toluene-d8	107	70-130		%Rec	10/18/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	10/18/201	VOCs by EPA 8260B



Alpha Analytical, Inc.

(775) 355-1044 / (775) 355-0406 FAX / 1-800-283-1183
225 Glendale Ave. - Suite 21 - Sparks, Nevada 89431-5578

Analytical Report

WO#: CHH1710072

Report Date: 10/18/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710072-17
Client Sample ID DUP-7

Collection Date: 10/6/2017

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	2.4	0.050		mg/L	10/12/201	TPH-E by EPA 8015C
Surr: Nonane	101	35-151		%Rec	10/12/201	TPH-E by EPA 8015C
TPH-P (GRO)	13	5.0		mg/L	10/18/201	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	97	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Surr: Toluene-d8	106	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	10/18/201	TPH-P by EPA 8015C
Dichlorodifluoromethane	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Chloromethane	ND	200		µg/L	10/18/201	VOCs by EPA 8260B
Vinyl chloride	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Chloroethane	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Bromomethane	ND	200		µg/L	10/18/201	VOCs by EPA 8260B
Trichlorofluoromethane	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Acetone	ND	1,000		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloroethene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Tertiary Butyl Alcohol (TBA)	ND	500		µg/L	10/18/201	VOCs by EPA 8260B
Dichloromethane	ND	200		µg/L	10/18/201	VOCs by EPA 8260B
Freon-113	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Carbon disulfide	ND	250		µg/L	10/18/201	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Methyl tert-butyl ether (MTBE)	ND	25		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloroethane	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Vinyl acetate	ND	5,000		µg/L	10/18/201	VOCs by EPA 8260B
2-Butanone (MEK)	ND	1,000		µg/L	10/18/201	VOCs by EPA 8260B
Di-isopropyl Ether (DIPE)	190	50		µg/L	10/18/201	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Bromochloromethane	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Chloroform	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Ethyl Tertiary Butyl Ether (ETBE)	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
2,2-Dichloropropane	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichloroethane	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
1,1-Dichloropropene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Carbon tetrachloride	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Benzene	5,700	25		µg/L	10/18/201	VOCs by EPA 8260B
Tertiary Amyl Methyl Ether (TAME)	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Dibromomethane	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichloropropane	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Trichloroethene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Bromodichloromethane	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
4-Methyl-2-pentanone (MIBK)	ND	250		µg/L	10/18/201	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Toluene	150	25		µg/L	10/18/201	VOCs by EPA 8260B
1,3-Dichloropropane	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
2-Hexanone	ND	500		µg/L	10/18/201	VOCs by EPA 8260B
Dibromochloromethane	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dibromoethane (EDB)	ND	200		µg/L	10/18/201	VOCs by EPA 8260B



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Analytical Report

WO#: CHH1710072

Report Date: 10/18/2017

CLIENT: CH2M Hill
Project: DFSP Norwalk
Lab ID: 1710072-17
Client Sample ID DUP-7

Collection Date: 10/6/2017

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	Date Analyzed	Method
Tetrachloroethene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
1,1,1,2-Tetrachloroethane	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Chlorobenzene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Ethylbenzene	190	25		µg/L	10/18/201	VOCs by EPA 8260B
m,p-Xylene	100	25		µg/L	10/18/201	VOCs by EPA 8260B
Bromoform	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Xylenes, Total	150	25		µg/L	10/18/201	VOCs by EPA 8260B
Styrene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
o-Xylene	49	25		µg/L	10/18/201	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
1,2,3-Trichloropropane	ND	200		µg/L	10/18/201	VOCs by EPA 8260B
Isopropylbenzene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
Bromobenzene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
n-Propylbenzene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
4-Chlorotoluene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
2-Chlorotoluene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
1,3,5-Trimethylbenzene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
tert-Butylbenzene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
1,2,4-Trimethylbenzene	72	50		µg/L	10/18/201	VOCs by EPA 8260B
sec-Butylbenzene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
4-Isopropyltoluene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
n-Butylbenzene	ND	50		µg/L	10/18/201	VOCs by EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	300		µg/L	10/18/201	VOCs by EPA 8260B
1,2,4-Trichlorobenzene	ND	200		µg/L	10/18/201	VOCs by EPA 8260B
Naphthalene	ND	200		µg/L	10/18/201	VOCs by EPA 8260B
1,2,3-Trichlorobenzene	ND	200		µg/L	10/18/201	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	97	70-130		%Rec	10/18/201	VOCs by EPA 8260B
Surr: Toluene-d8	106	70-130		%Rec	10/18/201	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	10/18/201	VOCs by EPA 8260B

NOTES:

Reporting Limits were increased due to high concentrations of target analytes.



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QC SUMMARY REPORT

WO#: 1710072

18-Oct-17

Client: CH2M Hill
Project: DFSP Norwalk

TestCode: TPH/E_W

Sample ID MB-2370	SampType: MBLK	TestCode: TPH/E_W	Units: mg/L
Client ID: PBW	Batch ID: 2370	TestNo: SW8015	SW8015
Prep Date: 10/11/2017	RunNo: 1907	SeqNo: 46898	
Analysis Date: 10/11/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	ND	0.05									
Surr: Nonane	0.14		0.15		92.0	34.51	151.49				

Sample ID LCS-2370	SampType: LCS	TestCode: TPH/E_W	Units: mg/L
Client ID: LCSW	Batch ID: 2370	TestNo: SW8015	SW8015
Prep Date: 10/11/2017	RunNo: 1907	SeqNo: 46899	
Analysis Date: 10/11/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	2.18	0.05	2.5	0	87.4	72.51	151.49				
Surr: Nonane	0.157		0.15		105	34.51	151.49				

Sample ID 1710072-02AMSD	SampType: MSD	TestCode: TPH/E_W	Units: mg/L
Client ID: MW-SF-1MSD	Batch ID: 2370	TestNo: SW8015	SW8015
Prep Date: 10/11/2017	RunNo: 1907	SeqNo: 46902	
Analysis Date: 10/11/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	2.22	0.1	2.5	0.565	66.1	63.51	161.49	2.42	8.8	40	
Surr: Nonane	0.334		0.3		111	32.51	162.49	0.283	0	0	

Sample ID 1710072-02AMS	SampType: MS	TestCode: TPH/E_W	Units: mg/L
Client ID: MW-SF-1MS	Batch ID: 2370	TestNo: SW8015	SW8015
Prep Date: 10/11/2017	RunNo: 1907	SeqNo: 46901	
Analysis Date: 10/11/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	2.42	0.1	2.5	0.565	74.3	63.51	161.49				
Surr: Nonane	0.283		0.3		94.3	32.51	162.49				

Qualifiers: B Analyte detected in the associated Method Bla
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



QC SUMMARY REPORT

WO#: 1710072

18-Oct-17

Client: CH2M Hill
Project: DFSP Norwalk

TestCode: TPH/P_W

Sample ID MB-2410	SampType: MBLK	TestCode: TPH/P_W	Units: mg/L
Client ID: PBW	Batch ID: A2410B	TestNo: SW8015	
Prep Date: 10/18/2017	RunNo: 1936	SeqNo: 47678	
Analysis Date: 10/18/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	ND	0.05									
Surr: 1,2-Dichloroethane-d4	0.011		0.01		106	69.51	130.49				
Surr: Toluene-d8	0.011		0.01		107	69.51	130.49				
Surr: 4-Bromofluorobenzene	0.011		0.01		108	69.51	130.49				

Sample ID GLCS-2410	SampType: GLCSD	TestCode: TPH/P_W	Units: mg/L
Client ID: BatchQC	Batch ID: A2410B	TestNo: SW8015	
Prep Date: 10/18/2017	RunNo: 1936	SeqNo: 47677	
Analysis Date: 10/18/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	0.494	0.05	0.4	0	124	69.51	130.49				
Surr: 1,2-Dichloroethane-d4	0.00999		0.01		99.9	69.51	130.49				
Surr: Toluene-d8	0.0108		0.01		108	69.51	130.49				
Surr: 4-Bromofluorobenzene	0.0108		0.01		108	69.51	130.49				

Sample ID 1710072-16AGSD	SampType: GSD	TestCode: TPH/P_W	Units: mg/L
Client ID: EB-8	Batch ID: A2410B	TestNo: SW8015	
Prep Date: 10/18/2017	RunNo: 1936	SeqNo: 47695	
Analysis Date: 10/18/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	1.58	0.25	2	0	78.8	53.51	143.49	1.45	8.2	23	
Surr: 1,2-Dichloroethane-d4	0.0466		0.05		93.2	69.51	130.49	0.0475	0	0	
Surr: Toluene-d8	0.054		0.05		108	69.51	130.49	0.0537	0	0	
Surr: 4-Bromofluorobenzene	0.0552		0.05		110	69.51	130.49	0.0556	0	0	

Sample ID 1710072-16AGS	SampType: GS	TestCode: TPH/P_W	Units: mg/L
Client ID: EB-8	Batch ID: A2410B	TestNo: SW8015	
Prep Date: 10/18/2017	RunNo: 1936	SeqNo: 47694	
Analysis Date: 10/18/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	1.45	0.25	2	0	72.6	53.51	143.49				
Surr: 1,2-Dichloroethane-d4	0.0475		0.05		94.9	69.51	130.49				
Surr: Toluene-d8	0.0537		0.05		107	69.51	130.49				
Surr: 4-Bromofluorobenzene	0.0556		0.05		111	69.51	130.49				

Qualifiers: B Analyte detected in the associated Method Bla
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



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QC SUMMARY REPORT

WO#: 1710072

18-Oct-17

Client: CH2M Hill
Project: DFSP Norwalk

TestCode: TPH/P_W

Sample ID	1710072-16AGS	SampType:	GS	TestCode:	TPH/P_W	Units:	mg/L				
Client ID:	EB-8	Batch ID:	A2410B	TestNo:	SW8015						
Prep Date:	10/18/2017	RunNo:	1936	SeqNo:	47694						
Analysis Date:	10/18/2017										
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: B Analyte detected in the associated Method Bla
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



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QC SUMMARY REPORT

WO#: 1710072

18-Oct-17

Client: CH2M Hill
Project: DFSP Norwalk

TestCode: VOC_W

Sample ID: MB-2410	SampType: MBLK	TestCode: VOC_W	Units: µg/L
Client ID: PBW	Batch ID: A2410	TestNo: SW8260B	
Prep Date: 10/18/2017	RunNo: 1936	SeqNo: 47664	
Analysis Date: 10/18/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	1									
Chloromethane	ND	2									
Vinyl chloride	ND	1									
Chloroethane	ND	1									
Bromomethane	ND	2									
Trichlorofluoromethane	ND	1									
Acetone	ND	10									
1,1-Dichloroethene	ND	1									
Tertiary Butyl Alcohol (TBA)	ND	10									
Dichloromethane	ND	2									
Freon-113	ND	1									
Carbon disulfide	ND	2.5									
trans-1,2-Dichloroethene	ND	1									
Methyl tert-butyl ether (MTBE)	ND	0.25									
1,1-Dichloroethane	ND	1									
Vinyl acetate	ND	50									
2-Butanone (MEK)	ND	10									
Di-isopropyl Ether (DIPE)	ND	1									
cis-1,2-Dichloroethene	ND	1									
Bromochloromethane	ND	1									
Chloroform	ND	1									
Ethyl Tertiary Butyl Ether (ETBE)	ND	1									
2,2-Dichloropropane	ND	1									
1,2-Dichloroethane	ND	1									
1,1,1-Trichloroethane	ND	1									
1,1-Dichloropropene	ND	1									
Carbon tetrachloride	ND	1									
Benzene	ND	0.25									
Tertiary Amyl Methyl Ether (TAME)	ND	1									
Dibromomethane	ND	1									
1,2-Dichloropropane	ND	1									
Trichloroethene	ND	1									
Bromodichloromethane	ND	1									
4-Methyl-2-pentanone (MIBK)	ND	2.5									
cis-1,3-Dichloropropene	ND	1									
trans-1,3-Dichloropropene	ND	1									
1,1,2-Trichloroethane	ND	1									
Toluene	ND	0.25									
1,3-Dichloropropane	ND	1									
2-Hexanone	ND	5									

Qualifiers:
 B Analyte detected in the associated Method Bla
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



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QC SUMMARY REPORT

WO#: 1710072

18-Oct-17

Client: CH2M Hill
Project: DFSP Norwalk

TestCode: VOC_W

Sample ID: MB-2410	SampType: MBLK	TestCode: VOC_W	Units: µg/L
Client ID: PBW	Batch ID: A2410	TestNo: SW8260B	
Prep Date: 10/18/2017	RunNo: 1936	SeqNo: 47664	
Analysis Date: 10/18/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloromethane	ND	1									
1,2-Dibromoethane (EDB)	ND	2									
Tetrachloroethene	ND	1									
1,1,1,2-Tetrachloroethane	ND	1									
Chlorobenzene	ND	1									
Ethylbenzene	ND	0.25									
m,p-Xylene	ND	0.25									
Bromoform	ND	1									
Xylenes, Total	ND	0.25									
Styrene	ND	1									
o-Xylene	ND	0.25									
1,1,2,2-Tetrachloroethane	ND	1									
1,2,3-Trichloropropane	ND	2									
Isopropylbenzene	ND	1									
Bromobenzene	ND	1									
n-Propylbenzene	ND	1									
4-Chlorotoluene	ND	1									
2-Chlorotoluene	ND	1									
1,3,5-Trimethylbenzene	ND	1									
tert-Butylbenzene	ND	1									
1,2,4-Trimethylbenzene	ND	1									
sec-Butylbenzene	ND	1									
1,3-Dichlorobenzene	ND	1									
1,4-Dichlorobenzene	ND	1									
4-Isopropyltoluene	ND	1									
1,2-Dichlorobenzene	ND	1									
n-Butylbenzene	ND	1									
1,2-Dibromo-3-chloropropane (DBCP)	ND	3									
1,2,4-Trichlorobenzene	ND	2									
Naphthalene	ND	2									
1,2,3-Trichlorobenzene	ND	2									
Surr: 1,2-Dichloroethane-d4	11		10		106	69.51	130.49				
Surr: Toluene-d8	11		10		107	69.51	130.49				
Surr: 4-Bromofluorobenzene	11		10		108	69.51	130.49				

Qualifiers:
 B Analyte detected in the associated Method Bla
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



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QC SUMMARY REPORT

WO#: 1710072

18-Oct-17

Client: CH2M Hill
Project: DFSP Norwalk

TestCode: VOC_W

Sample ID: LCS-2410	SampType: LCS	TestCode: VOC_W	Units: µg/L
Client ID: LCSW	Batch ID: A2410	TestNo: SW8260B	
Prep Date: 10/18/2017	RunNo: 1936	SeqNo: 47663	
Analysis Date: 10/18/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	8.8	1	10	0	88.0	68.51	130.49				
Chloromethane	9.05	2	10	0	90.5	39.51	145.49				
Vinyl chloride	9.45	1	10	0	94.5	41.51	157.49				
Chloroethane	16.6	1	10	0	166	69.51	130.49				S
Bromomethane	7.93	2	10	0	79.3	13.51	162.49				
Trichlorofluoromethane	10.7	1	10	0	107	45.51	154.49				
Acetone	215	10	200	0	107	21.51	188.49				
1,1-Dichloroethene	9.32	1	10	0	93.2	69.51	130.49				
Tertiary Butyl Alcohol (TBA)	112	10	100	0	112	69.51	130.49				
Dichloromethane	9.79	2	10	0	97.9	65.51	135.49				
Freon-113	10.4	1	10	0	104	69.51	131.49				
trans-1,2-Dichloroethene	10.2	1	10	0	102	69.51	131.49				
Methyl tert-butyl ether (MTBE)	10.2	0.25	10	0	102	68.51	134.49				
1,1-Dichloroethane	10.5	1	10	0	105	69.51	130.49				
2-Butanone (MEK)	182	10	200	0	91.1	25.51	183.49				
Di-isopropyl Ether (DIPE)	9.89	1	10	0	98.9	48.51	147.49				
cis-1,2-Dichloroethene	9.48	1	10	0	94.8	69.51	130.49				
Bromochloromethane	10.6	1	10	0	106	57.51	147.49				
Chloroform	9.84	1	10	0	98.4	39.51	145.49				
Ethyl Tertiary Butyl Ether (ETBE)	10.5	1	10	0	105	69.51	130.49				
2,2-Dichloropropane	10.6	1	10	0	106	25.51	183.49				
1,2-Dichloroethane	11	1	10	0	110	69.51	130.49				
1,1,1-Trichloroethane	11.4	1	10	0	114	69.51	130.49				
1,1-Dichloropropene	9.39	1	10	0	93.9	53.51	135.49				
Carbon tetrachloride	10.4	1	10	0	104	69.51	130.49				
Benzene	10.3	0.25	10	0	104	69.51	130.49				
Tertiary Amyl Methyl Ether (TAME)	10.6	1	10	0	106	47.51	148.49				
Dibromomethane	10.5	1	10	0	105	31.51	145.49				
1,2-Dichloropropane	10.8	1	10	0	108	69.51	134.49				
Trichloroethene	9.4	1	10	0	94.0	45.51	154.49				
Bromodichloromethane	9.8	1	10	0	98.0	59.51	144.49				
4-Methyl-2-pentanone (MIBK)	24	2.5	25	0	95.9	21.51	188.49				
cis-1,3-Dichloropropene	9.72	1	10	0	97.2	68.51	133.49				
trans-1,3-Dichloropropene	11.6	1	10	0	116	69.51	131.49				
1,1,2-Trichloroethane	11.2	1	10	0	112	69.51	130.49				
Toluene	10.1	0.25	10	0	101	69.51	132.49				
1,3-Dichloropropane	11.6	1	10	0	116	69.51	130.49				
2-Hexanone	109	5	100	0	109	69.51	132.49				
Dibromochloromethane	11.4	1	10	0	114	69.51	130.49				
1,2-Dibromoethane (EDB)	23.6	2	20	0	118	69.51	131.49				

Qualifiers:
 B Analyte detected in the associated Method Bla
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



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QC SUMMARY REPORT

WO#: 1710072

18-Oct-17

Client: CH2M Hill
Project: DFSP Norwalk

TestCode: VOC_W

Sample ID: LCS-2410	SampType: LCS	TestCode: VOC_W	Units: µg/L
Client ID: LCSW	Batch ID: A2410	TestNo: SW8260B	
Prep Date: 10/18/2017	RunNo: 1936	SeqNo: 47663	
Analysis Date: 10/18/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	8.79	1	10	0	87.9	69.51	130.49				
1,1,1,2-Tetrachloroethane	11.8	1	10	0	118	69.51	135.49				
Chlorobenzene	10.3	1	10	0	103	37.51	156.49				
Ethylbenzene	11.4	0.25	10	0	114	69.51	136.49				
m,p-Xylene	10.9	0.25	10	0	109	62.51	137.49				
Bromoform	10.4	1	10	0	104	13.51	162.49				
Xylenes, Total	20.4	0.25	20	0	102	49.51	200.49				
Styrene	9.3	1	10	0	93.0	54.51	144.49				
o-Xylene	9.54	0.25	10	0	95.4	69.51	132.49				
1,1,2,2-Tetrachloroethane	11.6	1	10	0	116	69.51	130.49				
1,2,3-Trichloropropane	23.5	2	20	0	118	61.51	131.49				
Isopropylbenzene	9.58	1	10	0	95.8	64.51	139.49				
Bromobenzene	10.4	1	10	0	104	69.51	133.49				
n-Propylbenzene	11.6	1	10	0	116	38.51	149.49				
4-Chlorotoluene	11.8	1	10	0	118	39.51	161.49				
2-Chlorotoluene	11.8	1	10	0	118	47.51	157.49				
1,3,5-Trimethylbenzene	12.2	1	10	0	122	69.51	130.49				
tert-Butylbenzene	12	1	10	0	120	62.51	139.49				
1,2,4-Trimethylbenzene	12.4	1	10	0	125	66.51	130.49				
sec-Butylbenzene	11.3	1	10	0	114	54.51	144.49				
1,3-Dichlorobenzene	11.5	1	10	0	115	69.51	130.49				
1,4-Dichlorobenzene	11.4	1	10	0	114	69.51	130.49				
4-Isopropyltoluene	12.1	1	10	0	121	58.51	140.49				
1,2-Dichlorobenzene	11	1	10	0	110	69.51	133.49				
n-Butylbenzene	11.6	1	10	0	116	68.51	134.49				
1,2-Dibromo-3-chloropropane (DBCP)	57.1	3	50	0	114	69.51	131.49				
1,2,4-Trichlorobenzene	11.3	2	10	0	113	69.51	133.49				
Naphthalene	11.4	2	10	0	114	69.51	130.49				
1,2,3-Trichlorobenzene	11.1	2	10	0	111	69.51	130.49				
Surr: 1,2-Dichloroethane-d4	10.2		10		102	69.51	130.49				
Surr: Toluene-d8	10.5		10		105	69.51	130.49				
Surr: 4-Bromofluorobenzene	10.8		10		108	69.51	130.49				

Sample ID: 1710072-16AMSD	SampType: MSD	TestCode: VOC_W	Units: µg/L
Client ID: EB-8MSD	Batch ID: A2410	TestNo: SW8260B	
Prep Date: 10/18/2017	RunNo: 1936	SeqNo: 47662	
Analysis Date: 10/18/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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Qualifiers:
 B Analyte detected in the associated Method Bla
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



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Website: www.alpha-analytical.com

QC SUMMARY REPORT

WO#: 1710072

18-Oct-17

Client: CH2M Hill
Project: DFSP Norwalk

TestCode: VOC_W

Sample ID: 1710072-16AMSD	SampType: MSD	TestCode: VOC_W	Units: µg/L
Client ID: EB-8MSD	Batch ID: A2410	TestNo: SW8260B	
Prep Date: 10/18/2017	RunNo: 1936	SeqNo: 47662	
Analysis Date: 10/18/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	40.4	5	50	0	80.8	11.51	150.49	41.3	2.1	30	
Chloromethane	33.5	10	50	0	67.0	25.51	146.49	31.9	4.8	30	
Vinyl chloride	41.9	5	50	0	83.7	45.51	142.49	43.8	4.6	30	
Chloroethane	75.9	5	50	0	152	24.51	164.49	88.7	16	30	
Bromomethane	8.2	10	50	0	16.4	9.51	172.49	6.23	27	30	
Trichlorofluoromethane	47.3	5	50	0	94.6	31.51	164.49	46.7	1.2	30	
Acetone	985	50	1000	0	97.8	9.51	188.49	1000	2	30	
1,1-Dichloroethene	44.2	5	50	0	88.4	61.51	133.49	45.2	2.2	30	
Tertiary Butyl Alcohol (TBA)	544	50	500	0	109	43.51	155.49	538	1.2	30	
Dichloromethane	45.9	10	50	0	91.7	68.51	130.49	47.1	2.6	30	
Freon-113	45.4	5	50	0	90.7	55.51	144.49	48.3	6.3	30	
trans-1,2-Dichloroethene	48.1	5	50	0	96.2	66.51	131.49	49.3	2.4	30	
Methyl tert-butyl ether (MTBE)	47.4	1.25	50	0	94.8	55.51	140.49	48.4	2.1	30	
1,1-Dichloroethane	49.1	5	50	0	98.3	66.51	130.49	50.1	2	30	
2-Butanone (MEK)	845	50	1000	0	84.5	25.51	183.49	851	0.66	30	
Di-isopropyl Ether (DIPE)	46.1	5	50	0	92.1	58.51	138.49	46.6	1.2	30	
cis-1,2-Dichloroethene	45.8	5	50	0	91.6	69.51	130.49	45.9	0.24	30	
Bromochloromethane	49.7	5	50	0	99.4	69.51	134.49	49.5	0.44	30	
Chloroform	45.3	5	50	0	90.6	68.51	130.49	45.7	0.77	30	
Ethyl Tertiary Butyl Ether (ETBE)	49.2	5	50	0	98.3	61.51	135.49	50.7	3.1	30	
2,2-Dichloropropane	36	5	50	0	72.0	43.51	149.49	36.2	0.58	30	
1,2-Dichloroethane	49.3	5	50	0	98.7	63.51	139.49	50.4	2.1	30	
1,1,1-Trichloroethane	52.5	5	50	0	105	64.51	139.49	53.1	1.2	30	
1,1-Dichloropropene	43.9	5	50	0	87.8	67.51	134.49	45	2.5	30	
Carbon tetrachloride	42.8	5	50	0	85.6	55.51	146.49	41.5	3	30	
Benzene	49.2	1.25	50	0	98.4	66.51	134.49	49.9	1.4	30	
Tertiary Amyl Methyl Ether (TAME)	50	5	50	0	100	63.51	135.49	51.1	2	30	
Dibromomethane	50.2	5	50	0	100	69.51	132.49	50.2	0.06	30	
1,2-Dichloropropane	50.6	5	50	0	101	68.51	134.49	50.7	0.039	30	
Trichloroethene	44.2	5	50	0	88.4	67.51	138.49	45.2	2.2	30	
Bromodichloromethane	45.9	5	50	0	91.8	57.51	147.49	45.5	0.83	30	
4-Methyl-2-pentanone (MIBK)	107	12.5	125	0	85.6	48.51	140.49	110	2.5	30	
cis-1,3-Dichloropropene	41.2	5	50	0	82.4	60.51	130.49	41.6	0.99	30	
trans-1,3-Dichloropropene	50.9	5	50	0	102	61.51	131.49	51.5	1.3	30	
1,1,2-Trichloroethane	53.2	5	50	0	106	69.51	131.49	54.2	2	30	
Toluene	47.4	1.25	50	0	94.7	37.51	130.49	48	1.4	30	
1,3-Dichloropropane	55.7	5	50	0	111	69.51	130.49	55.6	0.27	30	
2-Hexanone	509	25	500	0	102	24.51	157.49	509	0.043	30	
Dibromochloromethane	55.1	5	50	0	110	48.51	147.49	55.3	0.42	30	
1,2-Dibromoethane (EDB)	113	10	100	0	113	69.51	131.49	114	0.5	30	

Qualifiers: B Analyte detected in the associated Method Bla
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



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QC SUMMARY REPORT

WO#: 1710072

18-Oct-17

Client: CH2M Hill
Project: DFSP Norwalk

TestCode: VOC_W

Sample ID: 1710072-16AMSD	SampType: MSD	TestCode: VOC_W	Units: µg/L
Client ID: EB-8MSD	Batch ID: A2410	TestNo: SW8260B	
Prep Date: 10/18/2017	RunNo: 1936	SeqNo: 47662	
Analysis Date: 10/18/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	40.4	5	50	0	80.8	62.51	134.49	42.3	4.6	30	
1,1,1,2-Tetrachloroethane	57	5	50	0	114	69.51	133.49	57.4	0.73	30	
Chlorobenzene	50	5	50	0	100	69.51	130.49	50.1	0.18	30	
Ethylbenzene	53.7	1.25	50	0	107	69.51	130.49	54.5	1.4	30	
m,p-Xylene	51.5	1.25	50	0	103	64.51	139.49	52.5	1.9	30	
Bromoform	50.5	5	50	0	101	59.51	144.49	50.8	0.59	30	
Xylenes, Total	97	1.25	100	0	97.0	69.51	130.49	98.7	1.7	30	
Styrene	44.1	5	50	0	88.1	52.51	144.49	44.9	1.8	30	
o-Xylene	45.5	1.25	50	0	91.0	68.51	130.49	46.2	1.5	30	
1,1,2,2-Tetrachloroethane	57.1	5	50	0	114	66.51	134.49	56.8	0.42	30	
1,2,3-Trichloropropane	110	10	100	0	110	69.51	130.49	111	0.41	30	
Isopropylbenzene	45.6	5	50	0	91.1	63.51	136.49	46	1	30	
Bromobenzene	50.1	5	50	0	100	68.51	130.49	50.8	1.3	30	
n-Propylbenzene	53.1	5	50	0	106	64.51	132.49	54.5	2.6	30	
4-Chlorotoluene	55.3	5	50	0	111	68.51	132.49	56	1.3	30	
2-Chlorotoluene	55	5	50	0	110	68.51	130.49	55.9	1.5	30	
1,3,5-Trimethylbenzene	55.7	5	50	0	111	63.51	135.49	56.7	1.8	30	
tert-Butylbenzene	55.6	5	50	0	111	62.51	139.49	55.4	0.41	30	
1,2,4-Trimethylbenzene	57	5	50	0	114	61.51	135.49	57.9	1.5	30	
sec-Butylbenzene	51.8	5	50	0	104	67.51	132.49	52.6	1.6	30	
1,3-Dichlorobenzene	53.6	5	50	0	107	69.51	130.49	54.2	1.2	30	
1,4-Dichlorobenzene	53.4	5	50	0	107	69.51	130.49	54.5	1.9	30	
4-Isopropyltoluene	52.5	5	50	0	105	39.51	161.49	54.4	3.5	30	
1,2-Dichlorobenzene	52.5	5	50	0	105	69.51	130.49	51.9	1.1	30	
n-Butylbenzene	47.9	5	50	0	95.8	57.51	135.49	51	6.3	30	
1,2-Dibromo-3-chloropropane (DBCP)	290	15	250	0	116	62.51	131.49	275	5.3	30	
1,2,4-Trichlorobenzene	57.9	10	50	0	116	56.51	134.49	52.2	10	30	
Naphthalene	68.7	10	50	0	137	30.51	157.49	54.5	23	30	
1,2,3-Trichlorobenzene	73.2	10	50	0	146	51.51	138.49	47.4	43	30	RS
Surr: 1,2-Dichloroethane-d4	48.2		50		96.3	69.51	130.49	48	0	0	
Surr: Toluene-d8	53.1		50		106	69.51	130.49	52.9	0	0	
Surr: 4-Bromofluorobenzene	54.5		50		109	69.51	130.49	54.3	0	0	

Sample ID: 1710072-16AMS	SampType: MS	TestCode: VOC_W	Units: µg/L
Client ID: EB-8MS	Batch ID: A2410	TestNo: SW8260B	
Prep Date: 10/18/2017	RunNo: 1936	SeqNo: 47661	
Analysis Date: 10/18/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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- Qualifiers:**
- B Analyte detected in the associated Method Bla
 - ND Not Detected at the Reporting Limit
 - R RPD outside accepted recovery limits
 - S Spike Recovery outside accepted recovery limit



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QC SUMMARY REPORT

WO#: 1710072

18-Oct-17

Client: CH2M Hill
Project: DFSP Norwalk

TestCode: VOC_W

Sample ID: 1710072-16AMS	SampType: MS	TestCode: VOC_W	Units: µg/L
Client ID: EB-8MS	Batch ID: A2410	TestNo: SW8260B	
Prep Date: 10/18/2017	RunNo: 1936	SeqNo: 47661	
Analysis Date: 10/18/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	41.3	5	50	0	82.5	11.51	150.49				
Chloromethane	31.9	10	50	0	63.9	25.51	146.49				
Vinyl chloride	43.8	5	50	0	87.7	45.51	142.49				
Chloroethane	88.7	5	50	0	177	24.51	164.49				S
Bromomethane	6.23	10	50	0	12.5	9.51	172.49				
Trichlorofluoromethane	46.7	5	50	0	93.4	31.51	164.49				
Acetone	1000	50	1000	0	99.8	9.51	188.49				
1,1-Dichloroethene	45.2	5	50	0	90.4	61.51	133.49				
Tertiary Butyl Alcohol (TBA)	538	50	500	0	108	43.51	155.49				
Dichloromethane	47.1	10	50	0	94.2	68.51	130.49				
Freon-113	48.3	5	50	0	96.6	55.51	144.49				
trans-1,2-Dichloroethene	49.3	5	50	0	98.5	66.51	131.49				
Methyl tert-butyl ether (MTBE)	48.4	1.25	50	0	96.8	55.51	140.49				
1,1-Dichloroethane	50.1	5	50	0	100	66.51	130.49				
2-Butanone (MEK)	851	50	1000	0	85.1	25.51	183.49				
Di-isopropyl Ether (DIPE)	46.6	5	50	0	93.3	58.51	138.49				
cis-1,2-Dichloroethene	45.9	5	50	0	91.9	69.51	130.49				
Bromochloromethane	49.5	5	50	0	99.0	69.51	134.49				
Chloroform	45.7	5	50	0	91.3	68.51	130.49				
Ethyl Tertiary Butyl Ether (ETBE)	50.7	5	50	0	101	61.51	135.49				
2,2-Dichloropropane	36.2	5	50	0	72.4	43.51	149.49				
1,2-Dichloroethane	50.4	5	50	0	101	63.51	139.49				
1,1,1-Trichloroethane	53.1	5	50	0	106	64.51	139.49				
1,1-Dichloropropene	45	5	50	0	90.0	67.51	134.49				
Carbon tetrachloride	41.5	5	50	0	83.1	55.51	146.49				
Benzene	49.9	1.25	50	0	99.8	66.51	134.49				
Tertiary Amyl Methyl Ether (TAME)	51.1	5	50	0	102	63.51	135.49				
Dibromomethane	50.2	5	50	0	100	69.51	132.49				
1,2-Dichloropropane	50.7	5	50	0	101	68.51	134.49				
Trichloroethene	45.2	5	50	0	90.4	67.51	138.49				
Bromodichloromethane	45.5	5	50	0	91.1	57.51	147.49				
4-Methyl-2-pentanone (MIBK)	110	12.5	125	0	87.7	48.51	140.49				
cis-1,3-Dichloropropene	41.6	5	50	0	83.3	60.51	130.49				
trans-1,3-Dichloropropene	51.5	5	50	0	103	61.51	131.49				
1,1,2-Trichloroethane	54.2	5	50	0	108	69.51	131.49				
Toluene	48	1.25	50	0	96.1	37.51	130.49				
1,3-Dichloropropane	55.6	5	50	0	111	69.51	130.49				
2-Hexanone	509	25	500	0	102	24.51	157.49				
Dibromochloromethane	55.3	5	50	0	111	48.51	147.49				
1,2-Dibromoethane (EDB)	114	10	100	0	114	69.51	131.49				

Qualifiers: B Analyte detected in the associated Method Bla
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



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QC SUMMARY REPORT

WO#: 1710072

18-Oct-17

Client: CH2M Hill
Project: DFSP Norwalk

TestCode: VOC_W

Sample ID: 1710072-16AMS	SampType: MS	TestCode: VOC_W	Units: µg/L
Client ID: EB-8MS	Batch ID: A2410	TestNo: SW8260B	
Prep Date: 10/18/2017	RunNo: 1936	SeqNo: 47661	
Analysis Date: 10/18/2017			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	42.3	5	50	0	84.6	62.51	134.49				
1,1,1,2-Tetrachloroethane	57.4	5	50	0	115	69.51	133.49				
Chlorobenzene	50.1	5	50	0	100	69.51	130.49				
Ethylbenzene	54.5	1.25	50	0	109	69.51	130.49				
m,p-Xylene	52.5	1.25	50	0	105	64.51	139.49				
Bromoform	50.8	5	50	0	102	59.51	144.49				
Xylenes, Total	98.7	1.25	100	0	98.7	69.51	130.49				
Styrene	44.9	5	50	0	89.7	52.51	144.49				
o-Xylene	46.2	1.25	50	0	92.4	68.51	130.49				
1,1,2,2-Tetrachloroethane	56.8	5	50	0	114	66.51	134.49				
1,2,3-Trichloropropane	111	10	100	0	111	69.51	130.49				
Isopropylbenzene	46	5	50	0	92.1	63.51	136.49				
Bromobenzene	50.8	5	50	0	102	68.51	130.49				
n-Propylbenzene	54.5	5	50	0	109	64.51	132.49				
4-Chlorotoluene	56	5	50	0	112	68.51	132.49				
2-Chlorotoluene	55.9	5	50	0	112	68.51	130.49				
1,3,5-Trimethylbenzene	56.7	5	50	0	113	63.51	135.49				
tert-Butylbenzene	55.4	5	50	0	111	62.51	139.49				
1,2,4-Trimethylbenzene	57.9	5	50	0	116	61.51	135.49				
sec-Butylbenzene	52.6	5	50	0	105	67.51	132.49				
1,3-Dichlorobenzene	54.2	5	50	0	108	69.51	130.49				
1,4-Dichlorobenzene	54.5	5	50	0	109	69.51	130.49				
4-Isopropyltoluene	54.4	5	50	0	109	39.51	161.49				
1,2-Dichlorobenzene	51.9	5	50	0	104	69.51	130.49				
n-Butylbenzene	51	5	50	0	102	57.51	135.49				
1,2-Dibromo-3-chloropropane (DBCP)	275	15	250	0	110	62.51	131.49				
1,2,4-Trichlorobenzene	52.2	10	50	0	104	56.51	134.49				
Naphthalene	54.5	10	50	0	109	30.51	157.49				
1,2,3-Trichlorobenzene	47.4	10	50	0	94.8	51.51	138.49				
Surr: 1,2-Dichloroethane-d4	48		50		96.1	69.51	130.49				
Surr: Toluene-d8	52.9		50		106	69.51	130.49				
Surr: 4-Bromofluorobenzene	54.3		50		108	69.51	130.49				

Qualifiers:
 B Analyte detected in the associated Method Bla
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



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Definition Only

WO#: 1710072

Date:

Definitions:

ND = Not Detected

C = Reported concentration includes additional compounds uncharacteristic of common fuels and lubricants.

D = Reporting Limits were increased due to high concentrations of non-target analytes.

H = Reporting Limits were increased due to the hydrocarbons present in the sample.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

K = DRO concentration may include contributions from lighter-end hydrocarbons (e.g. gasoline) that elute in the DRO range.

L = DRO concentration may include contributions from heavier-end hydrocarbons (e.g. motor oil) that elute in the DRO range.

O = Reporting Limits were increased due to sample foaming.

V = Reporting Limits were increased due to high concentrations of target analytes.

X = Reporting Limits were increased due to sample matrix interferences.

Z = DRO concentration may include contributions from lighter-end (e.g. gasoline) and heavier-end (e.g. motor oil) hydrocarbons that elute in the DRO range.

S50 = The analysis of the sample required a dilution such that the surrogate concentration was diluted below the laboratory acceptance criteria. The laboratory control sample was acceptable.

S51 = Surrogate recovery could not be determined due to the presence of co-eluting hydrocarbons.

S52 = Surrogate recovery was above laboratory acceptance limits. Probable matrix effect.

S53 = Surrogate recovery was below laboratory acceptance limits. Probable matrix effect.

S54 = Surrogate recovery was below laboratory acceptance limits.

S55 = Surrogate recovery was above laboratory acceptance limits.



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Definition Only

WO#: 1710072

Date:

Definitions:

Report CC's Benny Pataray
 Eric Davis
 Krystle Remmen
 Vladimir Carino

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Ave, #21 Sparks, Nevada 89431
 TEL: (775) 355-1044 FAX: (775) 355-0406

CA AMENDED

WorkOrder: CHH1710072
 Report Due By: 18-Oct-17
 EDD Required: YES

Report Attention: Eric Davis

Client:

CH2M Hill
 1000 Wilshire Boulevard
 Los Angeles, CA 90017

TEL: 2132288271
 FAX: 7144242135
 ProjectNo: DFSP Norwalk

Date Received: 07-Oct-17

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles			Requested Tests						Sample Remarks		
				Alpha	Sub	TAT	TPHE_W	TPH/P_W	VOC_W						
CHH1710072-01	TB-4	AQ	10/6/2017 8:00:00 AM	2	0	7			A - Partial						Reno TB 10/02/2017
CHH1710072-02	MW-SF-1	AQ	10/6/2017 8:23:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710072-03	MW-SF-4	AQ	10/6/2017 9:03:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710072-04	GMW-30	AQ	10/6/2017 9:44:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710072-05	GMW-O-21	AQ	10/6/2017 11:02:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710072-06	MW-O-2	AQ	10/6/2017 11:42:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710072-07	WCW-7	AQ	10/6/2017 1:10:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710072-08	EB-7	AQ	10/6/2017 1:25:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710072-09	MW-SF-13	AQ	10/6/2017 8:12:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710072-10	MW-SF-6	AQ	10/6/2017 8:55:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						

Comments: Saturday delivery. Samples kept cold and secure until login 10/09/2017. Received one voas broken to sample -13. Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. Amended 10/13/2017 to change sample id to sample -15, per email from Vladimir. EH

Signature	Print Name	Company	Date/Time
	Elisabet Hernandez	Alpha Analytical, Inc.	10/13/17 14:08

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

AMENDED

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles			Requested Tests						Sample Remarks	
				Alpha	Sub	TAT	TPH/E_W	TPH/P_W	VOC_W					
CHH1710072-11	MW-SF-15	AQ	10/6/2017 9:39:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710072-12	GMW-O-20	AQ	10/6/2017 11:01:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710072-13	GMW-O-23	AQ	10/6/2017 12:08:00 PM	5	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710072-14	GMW-O-14	AQ	10/6/2017 12:50:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710072-15	GMW-23	AQ	10/6/2017 2:18:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710072-16	EB-8	AQ	10/6/2017 2:30:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710072-17	DUP-7	AQ	10/6/2017	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					

Comments: Saturday delivery. Samples kept cold and secure until login 10/09/2017. Received one voas broken to sample -13. Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. Amended 10/13/2017 to change sample id to sample -15, per email from Vladimir. EH

	Signature	Print Name	Company	Date/Time
Logged in by:		Elisaibet Hernandez	Alpha Analytical, Inc.	10/13/17 14:08

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Report CC's Benny Pataray
 Eric Davis
 Krystle Remmen
 Vladimir Carino

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Ave, #21 Sparks, Nevada 89431
 TEL: (775) 355-1044 FAX: (775) 355-0406

CA

WorkOrder: CHH1710072
 Report Due By: 18-Oct-17
 EDD Required: YES

Report Attention: Eric Davis

Client:

CH2M Hill
 1000 Wilshire Boulevard
 Los Angeles, CA 90017

TEL: 2132288271
 FAX: 7144242135
 ProjectNo: DFSP Norwalk

Date Received: 07-Oct-17

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles			Requested Tests						Sample Remarks		
				Alpha	Sub	TAT	TPH/E_W	TPH/P_W	VOC_W						
CHH1710072-01	TB-4	AQ	10/6/2017 8:00:00 AM	2	0	7			A - Partial						Reno TB 10/02/2017
CHH1710072-02	MW-SF-1	AQ	10/6/2017 8:23:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710072-03	MW-SF-4	AQ	10/6/2017 9:03:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710072-04	GMW-30	AQ	10/6/2017 9:44:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710072-05	GMW-O-21	AQ	10/6/2017 11:02:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710072-06	MW-O-2	AQ	10/6/2017 11:42:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710072-07	WCW-7	AQ	10/6/2017 1:10:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710072-08	EB-7	AQ	10/6/2017 1:25:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710072-09	MW-SF-13	AQ	10/6/2017 8:12:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						
CHH1710072-10	MW-SF-6	AQ	10/6/2017 8:55:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate						

Comments: Saturday delivery. Samples kept cold and secure until login 10/09/2017. Received one voas broken to sample -13. Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values.

	Signature	Print Name	Company	Date/Time
Logged in by:	<i>Elisabet Hernandez</i>	Elisabet Hernandez	Alpha Analytical, Inc.	10/09/17 11:03

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles			Requested Tests						Sample Remarks	
				Alpha	Sub	TAT	TPHE_W	TPH/P_W	VOC_W					
CHH1710072-11	MW-SF-15	AQ	10/6/2017 9:39:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710072-12	GMW-O-20	AQ	10/6/2017 11:01:00 AM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710072-13	GMW-O-23	AQ	10/6/2017 12:08:00 PM	5	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710072-14	GMW-O-14	AQ	10/6/2017 12:50:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710072-15	GMW-O-23	AQ	10/6/2017 2:18:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710072-16	EB-8	AQ	10/6/2017 2:30:00 PM	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					
CHH1710072-17	DUP-7	AQ	10/6/2017	6	0	7	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate	A - TPHE(0.05) +Vinyl acetate					

Comments: Saturday delivery. Samples kept cold and secure until login 10/09/2017. Received one voas broken to sample -13. Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values.

	Signature	Print Name	Company	Date/Time
Logged in by:	<i>Elisabet Hernandez</i>	Elisabet Hernandez	Alpha Analytical, Inc.	10/09/17 11:03

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB

Alpha Analytical COC 1 of 2

Billing Information:
 Kinder Morgan
 1100 Town and Country Rd.
 Orange CA 95112

Kinder Morgan Norwalk
 Report to:
 Dan Jablonski
 CH2MHILL
 1000 Wilshire Blvd 21st floor
 Los Angeles, CA 90017

CHAIN OF CUSTODY

CLIENT: Kinder Morgan

SITE: DFSP Norwalk

15306 Norwalk Blvd, Norwalk

SAMPLE I.D.	DATE	TIME	MATRIX AQ= Water	CONTAINERS			TPHg, TPHd (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)								ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
				#	Preservation	Type													
TB-4	10/6/17	0800	AQ	2	HCl	VOA		X											
MW-SF-1 SF-MW-1	10/6/17	0823	AQ	6	HCl	VOA	X	X											CHH1710072-01
MW-SF-4 SF-MW-4	10/6/17	0903	AQ	6	HCl	VOA	X	X											02
GMW-30	10/6/17	0944	AQ	6	HCl	VOA	X	X											03
GMW-0-21	10/6/17	1102	AQ	6	HCl	VOA	X	X											04
MW-0-2	10/6/17	1142	AQ	6	HCl	VOA	X	X											05
CCW-7	10/6/17	1310	AQ	6	HCl	VOA	X	X											06
EB-7	10/6/17	1325	AQ	6	HCl	VOA	X	X											07
																			08

SAMPLING COMPLETED: 10/6/17 1325
 SAMPLING PERFORMED BY: Danny Rice
 RESULTS NEEDED NO LATER THAN: Standard

RELEASED BY: [Signature] TIME: 1600 RECEIVED BY: [Signature] DATE: 10/6/17 TIME: 1600

RELEASED BY: [Signature] TIME: 1800 RECEIVED BY: [Signature] DATE: 10-6-17 TIME: 1700

RELEASED BY: [Signature] TIME: 1800 RECEIVED BY: Elioabets Hernandez DATE: 10/09/17 TIME: 11:03

SHIPPED VIA: _____ TIME SENT: _____ COOLER #: _____

BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB

Alpha Analytical COC 3 of 2

Billing Information:
Kinder Morgan
1100 Town and Country Rd.
Orange CA 95112

Kinder Morgan Norwalk
Report to:
Dan Jablonski
CH2MHILL
1000 Wilshire Blvd 21st floor
Los Angeles, CA 90017

CHAIN OF CUSTODY

CLIENT Kinder Morgan

SITE DFSP Norwalk

15306 Norwalk Blvd, Norwalk

SAMPLE I.D.	DATE	TIME	MATRIX AQ= Water	CONTAINERS			TPHg, TPHd (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)						ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
				#	Preservation	Type											
MW-SF-B	10/6/17	0812	AQ	6	HCl	VOAGs	✓	✓									CHH1710072-09
MW-SF-6		0855															10
MW-SF-15		0939															11
GMW-0-20		1101															12
GMW-0-23		1208															13
GMW-0-14		1250															14
GMW-0-23		1418															15
EB-8		1430															16
DVP-7	10/6/17		AQ	6	HCl	VOAGs	✓	✓									17

SAMPLING COMPLETED DATE 10/6/17 TIME 1600 SAMPLING PERFORMED BY Patrick Ho RESULTS NEEDED NO LATER THAN Standard

RELEASED BY [Signature] TIME 1600 RECEIVED BY [Signature] DATE 10/6/17 TIME 1600

RELEASED BY [Signature] TIME 15 RECEIVED BY [Signature] DATE 10/6/17 TIME 1700

RELEASED BY [Signature] TIME 1800 RECEIVED BY Elio Hernandez DATE 10/09/17 TIME 11:03

SHIPPED VIA TIME SENT COOLER #

APPENDIX D

**SUMMARY OF HISTORICAL GROUNDWATER ELEVATIONS – NOVEMBER 1996 THROUGH
OCTOBER 2017**

APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
BW-1	10/04/2010	73.17	----	25.94	----	47.23
BW-1	04/11/2011	73.17	----	25.36	----	47.81
BW-1	10/10/2011	73.17	----	25.03	----	48.14
BW-1	04/16/2012	73.17	----	26.20	----	46.97
BW-1	10/15/2012	73.17	----	25.26	----	47.91
BW-2	10/04/2010	73.57	----	26.02	----	47.55
BW-2	04/11/2011	73.57	----	25.30	----	48.27
BW-2	10/10/2011	73.57	----	23.81	----	49.76
BW-2	04/16/2012	73.57	----	26.29	----	47.28
BW-2	10/15/2012	73.57	----	25.58	----	47.99
BW-2	04/08/2013	73.57	----	27.65	----	45.92
BW-3	10/04/2010	74.16	----	27.80	----	46.36
BW-3	04/11/2011	74.16	----	26.14	----	48.02
BW-3	10/10/2011	74.16	----	26.91	----	47.25
BW-3	04/16/2012	74.16	----	27.37	----	46.79
BW-3	10/15/2012	74.16	----	26.19	----	47.97
BW-3	04/08/2013	74.16	----	28.85	----	45.31
BW-4	10/04/2010	74.61	----	27.10	----	47.51
BW-4	04/11/2011	74.61	----	26.23	----	48.38
BW-4	10/10/2011	74.61	----	26.30	----	48.31
BW-4	04/16/2012	74.61	----	27.52	----	47.09
BW-4	10/15/2012	74.61	----	26.93	----	47.68
BW-4	04/08/2013	74.61	----	29.00	----	45.61
BW-5	10/04/2010	73.59	----	26.03	----	47.56
BW-5	04/11/2011	73.59	----	25.18	----	48.41
BW-5	10/10/2011	73.59	----	25.19	----	48.40
BW-5	04/16/2012	73.59	----	26.57	----	47.02
BW-5	10/15/2012	73.59	----	26.11	----	47.48
BW-5	04/08/2013	73.59	----	28.05	----	45.54
BW-6	10/04/2010	73.48	----	26.36	----	47.12
BW-6	04/11/2011	73.48	----	25.34	----	48.14
BW-6	10/10/2011	73.48	----	25.74	----	47.74
BW-6	04/16/2012	73.48	----	26.73	----	46.75
BW-6	10/15/2012	73.48	----	26.00	----	47.48
BW-6	04/08/2013	73.48	----	28.34	----	45.14
BW-7	10/04/2010	74.65	----	27.55	----	47.10
BW-7	04/11/2011	74.65	----	26.70	----	47.95
BW-7	10/10/2011	74.65	----	26.83	----	47.82
BW-7	04/16/2012	74.65	----	27.71	----	46.94
BW-7	10/15/2012	74.65	----	27.15	----	47.50
BW-7	04/08/2013	74.65	----	29.01	----	45.64
BW-8	10/04/2010	75.08	----	27.97	----	47.11
BW-8	04/11/2011	75.08	----	27.28	----	47.80
BW-8	10/10/2011	75.08	----	27.15	----	47.93

APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
BW-8	04/16/2012	75.08	----	28.08	----	47.00
BW-8	10/15/2012	75.08	----	29.61	----	45.47
BW-8	04/08/2013	75.08	----	29.46	----	45.62
BW-9	10/04/2010	76.19	----	29.20	----	46.99
BW-9	04/11/2011	76.19	----	28.50	----	47.69
BW-9	10/10/2011	76.19	----	28.49	----	47.70
BW-9	04/16/2012	76.19	----	29.40	----	46.79
BW-9	10/15/2012	76.19	----	29.22	----	46.97
BW-9	04/08/2013	76.19	----	30.54	----	45.65
EP-73	10/4/2017	----	35.31	36.55	0.24	NC
EXP-1	05/28/1996	78.44	----	48.29	----	30.15
EXP-1	11/20/1996	78.44	----	49.10	----	29.34
EXP-1	07/01/1997	78.44	----	47.89	----	30.55
EXP-1	12/31/1997	78.44	----	47.08	----	31.36
EXP-1	05/01/1998	78.44	----	45.16	----	33.28
EXP-1	05/25/1999	78.44	----	45.44	----	33.00
EXP-1	08/09/1999	78.44	----	47.60	----	30.84
EXP-1	09/23/1999	78.44	----	48.53	----	29.91
EXP-1	10/12/1999	78.44	----	48.51	----	29.93
EXP-1	11/15/1999	78.44	----	48.39	----	30.05
EXP-1	12/21/1999	78.44	----	47.69	----	30.75
EXP-1	01/20/2000	78.44	----	47.45	----	30.99
EXP-1	02/28/2000	78.44	----	46.92	----	31.52
EXP-1	03/28/2000	78.44	----	46.65	----	31.79
EXP-1	04/20/2000	78.44	----	47.20	----	31.24
EXP-1	05/15/2000	78.44	----	47.51	----	30.93
EXP-1	05/15/2000	78.44	----	47.55	----	30.89
EXP-1	06/30/2000	78.44	----	48.51	----	29.93
EXP-1	08/28/2000	78.44	----	49.50	----	28.94
EXP-1	02/05/2001	78.44	----	48.47	----	29.97
EXP-1	05/07/2001	78.44	----	48.09	----	30.35
EXP-1	05/07/2001	78.44	----	48.15	----	30.29
EXP-1	09/18/2001	78.44	----	50.22	----	28.22
EXP-1	11/05/2001	78.44	----	50.17	----	28.27
EXP-1	11/13/2001	78.44	----	49.31	----	29.13
EXP-1	11/13/2001	78.44	----	49.32	----	29.12
EXP-1	01/29/2002	78.44	----	49.07	----	29.37
EXP-1	04/08/2002	78.44	----	48.96	----	29.48
EXP-1	04/08/2002	78.44	----	49.20	----	29.24
EXP-1	07/29/2002	78.44	----	51.35	----	27.09
EXP-1	10/21/2002	78.44	----	51.91	----	26.53
EXP-1	10/21/2002	78.44	----	51.94	----	26.50
EXP-1	01/27/2003	78.44	----	49.60	----	28.84
EXP-1	04/07/2003	78.44	----	50.28	----	28.16

APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
EXP-1	04/07/2003	78.44	----	50.30	----	28.14
EXP-1	07/30/2003	78.44	----	51.42	----	27.02
EXP-1	10/06/2003	78.44	----	51.76	----	26.68
EXP-1	10/06/2003	78.44	----	51.77	----	26.67
EXP-1	01/27/2004	78.44	----	51.25	----	27.19
EXP-1	04/19/2004	78.44	----	51.09	----	27.35
EXP-1	07/19/2004	78.44	----	52.91	----	25.53
EXP-1	11/01/2004	78.44	----	54.14	----	24.30
EXP-1	02/01/2005	78.44	----	52.90	----	25.54
EXP-1	05/02/2005	78.44	----	51.77	----	26.67
EXP-1	05/02/2005	78.44	----	51.91	----	26.53
EXP-1	08/01/2005	78.44	----	52.61	----	25.83
EXP-1	10/31/2005	78.44	----	52.59	----	25.85
EXP-1	02/27/2006	78.44	----	50.28	----	28.16
EXP-1	03/06/2006	78.44	----	50.63	----	27.81
EXP-1	05/01/2006	78.44	----	49.30	----	29.14
EXP-1	05/01/2006	78.44	----	49.70	----	28.74
EXP-1	08/26/2006	78.44	----	50.53	----	27.91
EXP-1	09/18/2006	78.44	----	50.56	----	27.88
EXP-1	12/01/2006	78.44	----	50.74	----	27.70
EXP-1	12/04/2006	78.44	----	50.28	----	28.16
EXP-1	03/12/2007	78.44	----	48.91	----	29.53
EXP-1	03/21/2007	78.44	----	48.82	----	29.62
EXP-1	04/27/2007	78.44	----	49.20	----	29.24
EXP-1	04/30/2007	78.44	----	48.85	----	29.59
EXP-1	08/28/2007	78.44	----	51.38	----	27.06
EXP-1	11/12/2007	78.44	----	52.37	----	26.07
EXP-1	11/12/2007	78.44	----	52.27	----	26.17
EXP-1	02/05/2008	78.44	----	52.15	----	26.29
EXP-1	02/19/2008	78.44	----	51.63	----	26.81
EXP-1	04/11/2008	78.44	----	51.51	----	26.93
EXP-1	04/14/2008	78.44	----	51.40	----	27.04
EXP-1	07/24/2008	78.44	----	52.92	----	25.52
EXP-1	08/11/2008	78.44	----	53.21	----	25.23
EXP-1	10/13/2008	78.44	----	53.75	----	24.69
EXP-1	10/14/2008	78.44	----	53.75	----	24.69
EXP-1	02/09/2009	78.44	----	52.56	----	25.88
EXP-1	04/20/2009	78.44	----	53.41	----	25.03
EXP-1	07/16/2009	78.44	----	55.06	----	23.38
EXP-1	07/20/2009	78.44	----	54.83	----	23.61
EXP-1	10/19/2009	78.44	----	55.86	----	22.58
EXP-1	01/11/2010	78.44	----	55.80	----	22.64
EXP-1	03/15/2010	78.44	----	55.01	----	23.43
EXP-1	04/07/2010	78.44	----	55.29	----	23.15

APPENDIX D
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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
EXP-1	04/12/2010	78.44	----	55.24	----	23.20
EXP-1	05/24/2010	78.44	----	55.38	----	23.06
EXP-1	05/28/2010	78.44	----	55.40	----	23.04
EXP-1	10/04/2010	78.44	----	56.44	----	22.00
EXP-1	01/06/2011	78.44	----	54.99	----	23.45
EXP-1	01/10/2011	78.44	----	54.77	----	23.67
EXP-1	04/07/2011	78.44	----	53.67	----	24.77
EXP-1	04/11/2011	78.44	----	53.98	----	24.46
EXP-1	07/07/2011	78.44	----	53.65	----	24.79
EXP-1	07/11/2011	78.44	----	53.51	----	24.93
EXP-1	10/06/2011	78.44	----	54.13	----	24.31
EXP-1	10/10/2011	78.44	----	53.75	----	24.69
EXP-1	01/09/2012	78.44	----	52.67	----	25.77
EXP-1	04/16/2012	78.44	----	52.29	----	26.15
EXP-1	07/09/2012	78.44	----	52.69	----	25.75
EXP-1	10/15/2012	78.44	----	53.63	----	24.81
EXP-1	01/10/2013	78.44	----	52.78	----	25.66
EXP-1	01/14/2013	78.44	----	52.99	----	25.45
EXP-1	04/03/2013	78.44	----	52.91	----	25.53
EXP-1	04/08/2013	78.44	----	52.51	----	25.93
EXP-1	04/08/2013	78.44	----	52.57	----	25.87
EXP-1	10/01/2013	78.44	----	55.34	----	23.10
EXP-1	10/07/2013	78.44	----	55.41	----	23.03
EXP-1	04/09/2014	78.44	----	55.42	----	23.02
EXP-1	04/14/2014	78.44	----	55.45	----	22.99
EXP-1	10/27/2014	78.44	----	58.29	----	20.15
EXP-1	10/27/2014	78.44	----	58.44	----	20.00
EXP-1	04/20/2015	78.44	----	57.93	----	20.51
EXP-1	04/20/2015	78.44	----	57.81	----	20.63
EXP-1	10/19/2015	78.44	----	59.37	----	19.07
EXP-1	10/19/2015	78.44	----	59.22	----	19.22
EXP-1	04/11/2016	78.44	----	59.50	----	18.94
EXP-1	04/13/2016	78.44	----	59.43	----	19.01
EXP-1	10/3/2016	78.44	----	61.17	----	17.27
EXP-1	10/3/2016	78.44	----	61.31	----	17.13
EXP-1	4/17/2017	78.44	----	60.47	----	17.97
EXP-1	4/18/2017	78.44	----	60.48	----	17.96
EXP-1	10/3/2017	78.44	----	61.14	----	17.30
EXP-1	10/2/2017	78.44	----	60.98	----	17.46
EXP-1	10/25/2017	78.44	----	60.87	----	17.57
EXP-2	05/28/1996	79.43	----	47.58	----	31.85
EXP-2	11/20/1996	79.43	----	48.20	----	31.23
EXP-2	07/01/1997	79.43	----	47.19	----	32.24
EXP-2	12/31/1997	79.43	----	46.33	----	33.10

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
EXP-2	05/01/1998	79.43	----	44.40	----	35.03
EXP-2	05/04/1999	79.43	----	44.05	----	35.38
EXP-2	05/25/1999	79.43	----	44.85	----	34.58
EXP-2	07/21/1999	79.43	----	46.67	----	32.76
EXP-2	08/09/1999	79.43	----	47.02	----	32.41
EXP-2	09/23/1999	79.43	----	48.90	----	30.53
EXP-2	10/12/1999	79.43	----	48.93	----	30.50
EXP-2	11/15/1999	79.43	----	47.76	----	31.67
EXP-2	12/21/1999	79.43	----	47.03	----	32.40
EXP-2	01/20/2000	79.43	----	46.85	----	32.58
EXP-2	02/28/2000	79.43	----	46.39	----	33.04
EXP-2	03/28/2000	79.43	----	46.15	----	33.28
EXP-2	04/20/2000	79.43	----	46.69	----	32.74
EXP-2	05/15/2000	79.43	----	47.04	----	32.39
EXP-2	05/15/2000	79.43	----	47.05	----	32.38
EXP-2	06/30/2000	79.43	----	48.01	----	31.42
EXP-2	08/28/2000	79.43	----	48.96	----	30.47
EXP-2	11/13/2000	79.43	----	48.71	----	30.72
EXP-2	11/13/2000	79.43	----	48.74	----	30.69
EXP-2	02/05/2001	79.43	----	47.83	----	31.60
EXP-2	05/07/2001	79.43	----	47.58	----	31.85
EXP-2	05/07/2001	79.43	----	47.61	----	31.82
EXP-2	09/18/2001	79.43	----	49.75	----	29.68
EXP-2	11/05/2001	79.43	----	49.60	----	29.83
EXP-2	01/29/2002	79.43	----	48.56	----	30.87
EXP-2	04/08/2002	79.43	----	48.63	----	30.80
EXP-2	04/08/2002	79.43	----	48.72	----	30.71
EXP-2	07/29/2002	79.43	----	50.90	----	28.53
EXP-2	10/21/2002	79.43	----	51.46	----	27.97
EXP-2	10/21/2002	79.43	----	51.51	----	27.92
EXP-2	01/27/2003	79.43	----	49.29	----	30.14
EXP-2	04/07/2003	79.43	----	49.95	----	29.48
EXP-2	04/07/2003	79.43	----	50.05	----	29.38
EXP-2	07/30/2003	79.43	----	51.15	----	28.28
EXP-2	10/06/2003	79.43	----	51.62	----	27.81
EXP-2	01/27/2004	79.43	----	51.09	----	28.34
EXP-2	04/19/2004	79.43	----	51.08	----	28.35
EXP-2	04/19/2004	79.43	----	50.00	----	29.43
EXP-2	07/19/2004	79.43	----	52.90	----	26.53
EXP-2	11/01/2004	79.43	----	53.98	----	25.45
EXP-2	02/01/2005	79.43	----	52.89	----	26.54
EXP-2	05/02/2005	79.43	----	51.87	----	27.56
EXP-2	05/02/2005	79.43	----	51.75	----	27.68
EXP-2	08/01/2005	79.43	----	52.65	----	26.78

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
EXP-2	10/31/2005	79.43	----	52.55	----	26.88
EXP-2	02/27/2006	79.43	----	50.30	----	29.13
EXP-2	05/01/2006	79.43	----	49.69	----	29.74
EXP-2	05/01/2006	79.43	----	49.31	----	30.12
EXP-2	09/18/2006	79.43	----	51.53	----	27.90
EXP-2	12/01/2006	79.43	----	50.60	----	28.83
EXP-2	12/04/2006	79.43	----	50.19	----	29.24
EXP-2	03/12/2007	79.43	----	48.92	----	30.51
EXP-2	04/30/2007	79.43	----	49.31	----	30.12
EXP-2	04/30/2007	79.43	----	48.87	----	30.56
EXP-2	08/28/2007	79.43	----	51.31	----	28.12
EXP-2	11/12/2007	79.43	----	52.27	----	27.16
EXP-2	02/19/2008	79.43	----	51.49	----	27.94
EXP-2	04/11/2008	79.43	----	51.46	----	27.97
EXP-2	04/14/2008	79.43	----	51.35	----	28.08
EXP-2	07/24/2008	79.43	----	53.08	----	26.35
EXP-2	08/11/2008	79.43	----	53.28	----	26.15
EXP-2	10/13/2008	79.43	----	53.76	----	25.67
EXP-2	10/14/2008	79.43	----	53.76	----	25.67
EXP-2	02/09/2009	79.43	----	52.81	----	26.62
EXP-2	04/20/2009	79.43	----	54.83	----	24.60
EXP-2	07/16/2009	79.43	----	54.91	----	24.52
EXP-2	07/20/2009	79.43	----	54.91	----	24.52
EXP-2	10/19/2009	79.43	----	55.90	----	23.53
EXP-2	01/11/2010	79.43	----	55.93	----	23.50
EXP-2	03/15/2010	79.43	----	55.22	----	24.21
EXP-2	04/07/2010	79.43	----	55.52	----	23.91
EXP-2	04/12/2010	79.43	----	55.82	----	23.61
EXP-2	05/24/2010	79.43	----	55.66	----	23.77
EXP-2	05/28/2010	79.43	----	55.69	----	23.74
EXP-2	10/04/2010	79.43	----	56.65	----	22.78
EXP-2	01/06/2011	79.43	----	55.48	----	23.95
EXP-2	01/10/2011	79.43	----	55.18	----	24.25
EXP-2	04/06/2011	79.43	----	54.07	----	25.36
EXP-2	04/11/2011	79.43	----	54.44	----	24.99
EXP-2	07/07/2011	79.43	----	54.18	----	25.25
EXP-2	07/11/2011	79.43	----	53.94	----	25.49
EXP-2	10/06/2011	79.43	----	54.26	----	25.17
EXP-2	10/10/2011	79.43	----	53.21	----	26.22
EXP-2	01/09/2012	79.43	----	52.98	----	26.45
EXP-2	04/16/2012	79.43	----	52.63	----	26.80
EXP-2	07/09/2012	79.43	----	53.08	----	26.35
EXP-2	10/15/2012	79.43	----	53.96	----	25.47
EXP-2	01/10/2013	79.43	----	53.22	----	26.21

**APPENDIX D
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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
EXP-2	01/14/2013	79.43	----	53.02	----	26.41
EXP-2	04/02/2013	79.43	----	53.33	----	26.10
EXP-2	04/08/2013	79.43	----	52.97	----	26.46
EXP-2	10/01/2013	79.43	----	55.89	----	23.54
EXP-2	10/07/2013	79.43	----	55.88	----	23.55
EXP-2	04/07/2014	79.43	----	56.07	----	23.36
EXP-2	04/14/2014	79.43	----	56.10	----	23.33
EXP-2	10/27/2014	79.43	----	58.94	----	20.49
EXP-2	10/27/2014	79.43	----	59.11	----	20.32
EXP-2	04/20/2015	79.43	----	58.72	----	20.71
EXP-2	04/20/2015	79.43	----	58.53	----	20.90
EXP-2	10/19/2015	79.43	----	60.23	----	19.20
EXP-2	10/19/2015	79.43	----	60.23	----	19.20
EXP-2	04/11/2016	79.43	----	60.31	----	19.12
EXP-2	04/11/2016	79.43	----	60.25	----	19.18
EXP-2	10/3/2016	79.43	----	62.18	----	17.25
EXP-2	10/3/2016	79.43	----	61.88	----	17.55
EXP-2	4/17/2017	79.43	----	61.39	----	18.04
EXP-2	4/17/2017	79.43	----	61.42	----	18.01
EXP-2	10/2/2017	79.43	----	62.04	----	17.39
EXP-2	10/2/2017	79.43	----	61.97	----	17.46
EXP-2	10/25/2017	79.43	----	61.94	----	17.49
EXP-3	05/28/1996	77.58	----	47.40	----	30.18
EXP-3	11/20/1996	77.58	----	48.25	----	29.33
EXP-3	07/01/1997	77.58	----	47.15	----	30.43
EXP-3	12/31/1997	77.58	----	46.21	----	31.37
EXP-3	05/01/1998	77.58	----	44.19	----	33.39
EXP-3	05/04/1999	77.58	----	43.88	----	33.70
EXP-3	05/26/1999	77.58	----	44.72	----	32.86
EXP-3	08/09/1999	77.58	----	46.98	----	30.60
EXP-3	09/23/1999	77.58	----	47.78	----	29.80
EXP-3	10/12/1999	77.58	----	47.76	----	29.82
EXP-3	11/15/1999	77.58	----	47.65	----	29.93
EXP-3	12/21/1999	77.58	----	46.85	----	30.73
EXP-3	01/20/2000	77.58	----	46.57	----	31.01
EXP-3	02/28/2000	77.58	----	46.01	----	31.57
EXP-3	03/28/2000	77.58	----	45.79	----	31.79
EXP-3	04/20/2000	77.58	----	46.35	----	31.23
EXP-3	05/15/2000	77.58	----	46.68	----	30.90
EXP-3	05/15/2000	77.58	----	46.63	----	30.95
EXP-3	06/30/2000	77.58	----	47.75	----	29.83
EXP-3	08/28/2000	77.58	----	48.77	----	28.81
EXP-3	11/13/2000	77.58	----	48.51	----	29.07
EXP-3	11/13/2000	77.58	----	48.41	----	29.17

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
EXP-3	02/05/2001	77.58	----	47.58	----	30.00
EXP-3	05/07/2001	77.58	----	47.29	----	30.29
EXP-3	05/07/2001	77.58	----	47.26	----	30.32
EXP-3	09/18/2001	77.58	----	49.46	----	28.12
EXP-3	11/05/2001	77.58	----	49.32	----	28.26
EXP-3	01/29/2002	77.58	----	48.19	----	29.39
EXP-3	04/08/2002	77.58	----	48.25	----	29.33
EXP-3	04/08/2002	77.58	----	48.21	----	29.37
EXP-3	07/29/2002	77.58	----	50.59	----	26.99
EXP-3	10/21/2002	77.58	----	51.16	----	26.42
EXP-3	10/21/2002	77.58	----	51.11	----	26.47
EXP-3	01/27/2003	77.58	----	48.62	----	28.96
EXP-3	04/07/2003	77.58	----	49.55	----	28.03
EXP-3	04/07/2003	77.58	----	49.46	----	28.12
EXP-3	07/30/2003	77.58	----	50.59	----	26.99
EXP-3	10/06/2003	77.58	----	50.95	----	26.63
EXP-3	10/06/2003	77.58	----	51.01	----	26.57
EXP-3	01/27/2004	77.58	----	50.35	----	27.23
EXP-3	04/19/2004	77.58	----	50.22	----	27.36
EXP-3	04/19/2004	77.58	----	50.19	----	27.39
EXP-3	07/19/2004	77.58	----	52.19	----	25.39
EXP-3	11/01/2004	77.58	----	53.26	----	24.32
EXP-3	02/01/2005	77.58	----	51.94	----	25.64
EXP-3	05/02/2005	77.58	----	50.90	----	26.68
EXP-3	05/02/2005	77.58	----	49.83	----	27.75
EXP-3	08/01/2005	77.58	----	51.82	----	25.76
EXP-3	10/31/2005	77.58	----	51.71	----	25.87
EXP-3	02/27/2006	77.58	----	49.29	----	28.29
EXP-3	05/01/2006	77.58	----	48.74	----	28.84
EXP-3	05/01/2006	77.58	----	48.31	----	29.27
EXP-3	09/18/2006	77.58	----	50.14	----	27.44
EXP-3	12/01/2006	77.58	----	49.74	----	27.84
EXP-3	12/04/2006	77.58	----	49.41	----	28.17
EXP-3	03/12/2007	77.58	----	47.95	----	29.63
EXP-3	04/30/2007	77.58	----	48.31	----	29.27
EXP-3	04/30/2007	77.58	----	47.86	----	29.72
EXP-3	08/28/2007	77.58	----	50.61	----	26.97
EXP-3	11/12/2007	77.58	----	51.57	----	26.01
EXP-3	11/12/2007	77.58	----	51.56	----	26.02
EXP-3	02/05/2008	77.58	----	51.23	----	26.35
EXP-3	02/19/2008	77.58	----	50.70	----	26.88
EXP-3	04/14/2008	77.58	----	50.63	----	26.95
EXP-3	04/14/2008	77.58	----	50.60	----	26.98
EXP-3	07/24/2008	77.58	----	52.78	----	24.80

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
EXP-3	08/11/2008	77.58	----	52.45	----	25.13
EXP-3	10/13/2008	77.58	----	52.97	----	24.61
EXP-3	10/14/2008	77.58	----	52.97	----	24.61
EXP-3	02/10/2009	77.58	----	52.16	----	25.42
EXP-3	04/20/2009	77.58	----	52.97	----	24.61
EXP-3	07/16/2009	77.58	----	54.02	----	23.56
EXP-3	07/20/2009	77.58	----	53.93	----	23.65
EXP-3	10/19/2009	77.58	----	55.40	----	22.18
EXP-3	01/11/2010	77.58	----	54.51	----	23.07
EXP-3	03/15/2010	77.58	----	54.10	----	23.48
EXP-3	04/07/2010	77.58	----	54.36	----	23.22
EXP-3	04/12/2010	77.58	----	54.82	----	22.76
EXP-3	05/24/2010	77.58	----	54.54	----	23.04
EXP-3	05/28/2010	77.58	----	54.51	----	23.07
EXP-3	10/04/2010	77.58	----	55.42	----	22.16
EXP-3	01/08/2011	77.58	----	53.91	----	23.67
EXP-3	01/10/2011	77.58	----	53.88	----	23.70
EXP-3	04/07/2011	77.58	----	52.66	----	24.92
EXP-3	04/11/2011	77.58	----	52.92	----	24.66
EXP-3	07/08/2011	77.58	----	52.73	----	24.85
EXP-3	07/11/2011	77.58	----	52.54	----	25.04
EXP-3	10/06/2011	77.58	----	53.23	----	24.35
EXP-3	10/10/2011	77.58	----	52.74	----	24.84
EXP-3	01/09/2012	77.58	----	51.67	----	25.91
EXP-3	04/16/2012	77.58	----	51.34	----	26.24
EXP-3	07/09/2012	77.58	----	51.87	----	25.71
EXP-3	08/29/2012	77.58	----	52.69	----	24.89
EXP-3	10/15/2012	77.58	----	52.80	----	24.78
EXP-3	01/11/2013	77.58	----	51.94	----	25.64
EXP-3	01/14/2013	77.58	----	51.70	----	25.88
EXP-3	04/03/2013	77.58	----	52.01	----	25.57
EXP-3	04/08/2013	77.58	----	51.65	----	25.93
EXP-3	10/02/2013	77.58	----	54.61	----	22.97
EXP-3	10/07/2013	77.58	----	54.62	----	22.96
EXP-3	04/09/2014	77.58	----	54.55	----	23.03
EXP-3	04/14/2014	77.58	----	54.68	----	22.90
EXP-3	10/27/2014	77.58	----	57.55	----	20.03
EXP-3	10/27/2014	77.58	----	57.70	----	19.88
EXP-3	04/20/2015	77.58	----	57.09	----	20.49
EXP-3	04/20/2015	77.58	----	56.91	----	20.67
EXP-3	10/19/2015	77.58	----	58.43	----	19.15
EXP-3	10/20/2015	77.58	----	58.50	----	19.08
EXP-3	04/11/2016	77.58	----	58.80	----	18.78
EXP-3	04/12/2016	77.58	----	58.72	----	18.86

APPENDIX D
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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
EXP-3	10/3/2016	77.58	----	60.92	----	16.66
EXP-3	10/3/2016	77.58	----	60.52	----	17.06
EXP-3	4/17/2017	77.58	----	59.52	----	18.06
EXP-3	4/18/2017	77.58	----	59.59	----	17.99
EXP-3	10/3/2017	77.58	----	60.26	----	17.32
EXP-3	10/2/2017	77.58	----	60.12	----	17.46
EXP-3	10/25/2017	77.58	----	60.00	----	17.58
EXP-4	02/03/1999	79.81	----	43.49	----	36.32
EXP-4	05/04/1999	79.81	----	43.43	----	36.38
EXP-4	07/21/1999	79.81	----	46.03	----	33.78
EXP-4	08/09/1999	79.81	----	46.49	----	33.32
EXP-4	09/23/1999	79.81	----	47.29	----	32.52
EXP-4	10/12/1999	79.81	----	47.30	----	32.51
EXP-4	11/15/1999	79.81	----	47.18	----	32.63
EXP-4	12/21/1999	79.81	----	46.42	----	33.39
EXP-4	01/20/2000	79.81	----	46.29	----	33.52
EXP-4	02/28/2000	79.81	----	45.89	----	33.92
EXP-4	03/28/2000	79.81	----	45.61	----	34.20
EXP-4	04/20/2000	79.81	----	46.12	----	33.69
EXP-4	05/15/2000	79.81	----	46.39	----	33.42
EXP-4	06/30/2000	79.81	----	47.42	----	32.39
EXP-4	08/28/2000	79.81	----	48.35	----	31.46
EXP-4	11/13/2000	79.81	----	48.15	----	31.66
EXP-4	02/05/2001	79.81	----	47.26	----	32.55
EXP-4	05/07/2001	79.81	----	47.01	----	32.80
EXP-4	09/18/2001	79.81	----	49.10	----	30.71
EXP-4	11/05/2001	79.81	----	48.97	----	30.84
EXP-4	01/29/2002	79.81	----	47.97	----	31.84
EXP-4	04/08/2002	79.81	----	48.01	----	31.80
EXP-4	10/21/2002	79.81	----	51.45	----	28.36
EXP-4	04/07/2003	79.81	----	49.51	----	30.30
EXP-4	10/06/2003	79.81	----	51.14	----	28.67
EXP-4	01/11/2004	79.81	----	53.61	----	26.20
EXP-4	04/19/2004	79.81	----	50.59	----	29.22
EXP-4	05/02/2005	79.81	----	51.43	----	28.38
EXP-4	10/31/2005	79.81	----	49.21	----	30.60
EXP-4	05/01/2006	79.81	----	49.00	----	30.81
EXP-4	09/18/2006	79.81	----	49.73	----	30.08
EXP-4	12/04/2006	79.81	----	44.51	----	35.30
EXP-4	04/30/2007	79.81	----	48.59	----	31.22
EXP-4	11/12/2007	79.81	----	51.35	----	28.46
EXP-4	04/14/2008	79.81	----	50.95	----	28.86
EXP-4	10/13/2008	79.81	----	53.29	----	26.52
EXP-4	04/20/2009	79.81	----	53.54	----	26.27

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
EXP-4	07/20/2009	79.81	----	54.51	----	25.30
EXP-4	10/19/2009	79.81	----	55.42	----	24.39
EXP-4	05/24/2010	79.81	----	55.10	----	24.71
EXP-4	05/28/2010	79.81	----	55.10	----	24.71
EXP-4	10/04/2010	79.81	----	56.23	----	23.58
EXP-4	04/11/2011	79.81	----	54.10	----	25.71
EXP-4	10/10/2011	79.81	----	53.93	----	25.88
EXP-4	04/16/2012	79.81	----	52.49	----	27.32
EXP-4	10/15/2012	79.81	----	53.74	----	26.07
EXP-4	04/08/2013	79.81	----	52.51	----	27.30
EXP-4	10/07/2013	79.81	----	55.62	----	24.19
EXP-4	04/14/2014	79.81	----	55.92	----	23.89
EXP-4	10/27/2014	79.81	----	58.95	----	20.86
EXP-4	04/20/2015	79.81	----	58.43	----	21.38
EXP-4	10/19/2015	79.81	----	60.00	----	19.81
EXP-4	04/11/2016	79.81	----	60.30	----	19.51
EXP-4	10/3/2016	79.81	----	62.71	----	17.10
EXP-4	4/17/2017	79.81	----	61.41	----	18.40
EXP-4	10/2/2017	79.81	----	62.03	----	17.78
EXP-5	02/03/1999	72.41	----	39.50	----	32.91
EXP-5	05/03/1999	72.41	----	39.30	----	33.11
EXP-5	07/21/1999	72.41	----	42.10	----	30.31
EXP-5	08/09/1999	72.41	----	42.60	----	29.81
EXP-5	09/23/1999	72.41	----	43.41	----	29.00
EXP-5	10/12/1999	72.41	----	43.39	----	29.02
EXP-5	11/15/1999	72.41	----	43.21	----	29.20
EXP-5	12/21/1999	72.41	----	42.30	----	30.11
EXP-5	01/20/2000	72.41	----	42.07	----	30.34
EXP-5	02/28/2000	72.41	----	41.45	----	30.96
EXP-5	03/28/2000	72.41	----	41.20	----	31.21
EXP-5	04/20/2000	72.41	----	41.78	----	30.63
EXP-5	05/15/2000	72.41	----	42.16	----	30.25
EXP-5	06/30/2000	72.41	----	43.26	----	29.15
EXP-5	08/28/2000	72.41	----	44.32	----	28.09
EXP-5	11/13/2000	72.41	----	44.02	----	28.39
EXP-5	02/05/2001	72.41	----	42.95	----	29.46
EXP-5	05/07/2001	72.41	----	43.46	----	28.95
EXP-5	09/18/2001	72.41	----	45.01	----	27.40
EXP-5	11/05/2001	72.41	----	44.81	----	27.60
EXP-5	01/29/2002	72.41	----	43.55	----	28.86
EXP-5	04/08/2002	72.41	----	43.72	----	28.69
EXP-5	07/29/2002	72.41	----	46.12	----	26.29
EXP-5	10/21/2002	72.41	----	46.61	----	25.80
EXP-5	01/27/2003	72.41	----	43.89	----	28.52

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
EXP-5	04/07/2003	72.41	----	44.70	----	27.71
EXP-5	07/30/2003	72.41	----	45.89	----	26.52
EXP-5	10/06/2003	72.41	----	46.35	----	26.06
EXP-5	01/11/2004	72.41	----	48.53	----	23.88
EXP-5	01/27/2004	72.41	----	45.57	----	26.84
EXP-5	04/19/2004	72.41	----	45.41	----	27.00
EXP-5	07/19/2004	72.41	----	47.55	----	24.86
EXP-5	02/01/2005	72.41	----	47.07	----	25.34
EXP-5	05/02/2005	72.41	----	45.81	----	26.60
EXP-5	08/01/2005	72.41	----	45.37	----	27.04
EXP-5	10/31/2005	72.41	----	46.83	----	25.58
EXP-5	02/27/2006	72.41	----	47.21	----	25.20
EXP-5	05/01/2006	72.41	----	43.34	----	29.07
EXP-5	09/18/2006	72.41	----	44.88	----	27.53
EXP-5	12/04/2006	72.41	----	49.73	----	22.68
EXP-5	03/12/2007	72.41	----	43.02	----	29.39
EXP-5	04/30/2007	72.41	----	43.02	----	29.39
EXP-5	08/28/2007	72.41	----	45.86	----	26.55
EXP-5	11/12/2007	72.41	----	46.37	----	26.04
EXP-5	02/19/2008	72.41	----	45.90	----	26.51
EXP-5	04/14/2008	72.41	----	45.73	----	26.68
EXP-5	08/11/2008	72.41	----	47.68	----	24.73
EXP-5	10/13/2008	72.41	----	48.19	----	24.22
EXP-5	04/20/2009	72.41	----	47.86	----	24.55
EXP-5	07/20/2009	72.41	----	49.10	----	23.31
EXP-5	10/19/2009	72.41	----	50.61	----	21.80
EXP-5	03/15/2010	72.41	----	49.02	----	23.39
EXP-5	05/24/2010	72.41	----	49.54	----	22.87
EXP-5	05/28/2010	72.41	----	49.49	----	22.92
EXP-5	10/04/2010	72.41	----	50.35	----	22.06
EXP-5	01/10/2011	72.41	----	48.69	----	23.72
EXP-5	04/11/2011	72.41	----	49.82	----	22.59
EXP-5	07/11/2011	72.41	----	47.42	----	24.99
EXP-5	10/10/2011	72.41	----	49.58	----	22.83
EXP-5	01/09/2012	72.41	----	46.53	----	25.88
EXP-5	04/16/2012	72.41	----	46.21	----	26.20
EXP-5	07/09/2012	72.41	----	46.88	----	25.53
EXP-5	10/15/2012	72.41	----	47.78	----	24.63
EXP-5	01/14/2013	72.41	----	46.64	----	25.77
EXP-5	04/08/2013	72.41	----	46.58	----	25.83
EXP-5	10/07/2013	72.41	----	50.13	----	22.28
EXP-5	04/14/2014	72.41	----	49.42	----	22.99
EXP-5	10/27/2014	72.41	----	52.58	----	19.83
EXP-5	04/20/2015	72.41	----	51.71	----	20.70

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
EXP-5	10/19/2015	72.41	----	53.27	----	19.14
EXP-5	04/11/2016	72.41	----	53.40	----	19.01
EXP-5	10/3/2016	72.41	----	55.40	----	17.01
EXP-5	4/17/2017	72.41	----	54.26	----	18.15
EXP-5	10/2/2017	72.41	----	54.73	----	17.68
GMW-1	05/28/1996	74.77	----	26.93	----	47.84
GMW-1	11/20/1996	74.77	----	27.73	----	47.04
GMW-1	07/01/1997	74.77	----	27.97	----	46.80
GMW-1	12/31/1997	74.77	----	27.85	----	46.92
GMW-1	05/01/1998	74.77	----	24.77	----	50.00
GMW-1	05/04/1999	74.77	----	25.75	----	49.02
GMW-1	08/09/1999	74.77	----	26.24	----	48.53
GMW-1	11/15/1999	74.77	----	26.39	----	48.38
GMW-1	05/15/2000	74.77	----	26.26	----	48.51
GMW-1	11/13/2000	74.77	----	26.95	----	47.82
GMW-1	05/07/2001	74.77	----	25.50	----	49.27
GMW-1	11/05/2001	74.77	----	25.53	----	49.24
GMW-1	04/08/2002	74.77	----	26.10	----	48.67
GMW-1	10/21/2002	74.77	----	26.82	----	47.95
GMW-1	04/07/2003	74.77	----	26.17	----	48.60
GMW-1	07/30/2003	74.77	----	26.11	----	48.66
GMW-1	10/06/2003	74.77	----	26.22	----	48.55
GMW-1	01/11/2004	74.77	----	27.59	----	47.18
GMW-1	01/27/2004	74.77	----	26.57	----	48.20
GMW-1	04/19/2004	74.77	----	27.25	----	47.52
GMW-1	07/19/2004	74.77	----	26.84	----	47.93
GMW-1	02/01/2005	74.77	----	25.79	----	48.98
GMW-1	05/02/2005	74.77	----	20.84	----	53.93
GMW-1	08/01/2005	74.77	----	21.92	----	52.85
GMW-1	10/31/2005	74.77	----	26.96	----	47.81
GMW-1	02/27/2006	74.77	----	23.15	----	51.62
GMW-1	05/01/2006	74.77	----	23.30	----	51.47
GMW-1	09/18/2006	74.77	----	23.70	----	51.07
GMW-1	12/04/2006	74.77	----	24.06	----	50.71
GMW-1	03/12/2007	74.77	----	24.18	----	50.59
GMW-1	04/30/2007	74.77	----	23.21	----	51.56
GMW-1	08/28/2007	74.77	----	19.70	----	55.07
GMW-1	11/12/2007	74.77	----	23.70	----	51.07
GMW-1	02/19/2008	74.77	----	25.20	----	49.57
GMW-1	04/14/2008	74.77	----	25.12	----	49.65
GMW-1	10/13/2008	74.77	----	25.84	----	48.93
GMW-1	04/20/2009	74.77	----	26.18	----	48.59
GMW-1	10/19/2009	74.77	----	27.52	----	47.25
GMW-1	05/24/2010	74.77	----	26.95	----	47.82

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-1	05/28/2010	74.77	----	26.91	----	47.86
GMW-1	10/04/2010	74.77	----	26.95	----	47.82
GMW-1	01/10/2011	74.77	----	28.22	----	46.55
GMW-1	04/11/2011	74.77	----	25.98	----	48.79
GMW-1	10/10/2011	74.77	----	26.15	----	48.62
GMW-1	01/09/2012	74.77	----	26.68	----	48.09
GMW-1	04/16/2012	74.77	----	28.03	----	46.74
GMW-1	07/09/2012	74.77	----	29.14	----	45.63
GMW-1	10/15/2012	74.77	----	29.49	----	45.28
GMW-1	01/14/2013	74.77	----	29.54	----	45.23
GMW-1	04/08/2013	74.77	----	29.34	----	45.43
GMW-1	10/07/2013	74.77	----	30.25	----	44.52
GMW-1	04/14/2014	74.77	----	30.42	----	44.35
GMW-1	10/27/2014	74.77	----	30.78	----	43.99
GMW-1	04/20/2015	74.77	----	31.19	----	43.58
GMW-1	10/19/2015	74.77	----	31.89	----	42.88
GMW-1	04/11/2016	74.77	----	34.00	----	40.77
GMW-1	10/3/2016	74.77	----	35.80	----	38.97
GMW-2	05/28/1996	73.57	----	26.10	----	47.47
GMW-2	11/20/1996	73.57	----	26.77	----	46.80
GMW-2	07/01/1997	73.57	----	27.63	----	45.94
GMW-2	12/31/1997	73.57	----	26.94	----	46.63
GMW-2	05/01/1998	73.57	----	24.02	----	49.55
GMW-2	05/04/1999	73.57	----	25.38	----	48.19
GMW-2	08/09/1999	73.57	----	25.68	----	47.89
GMW-2	11/15/1999	73.57	----	25.49	----	48.08
GMW-2	05/15/2000	73.57	----	25.63	----	47.94
GMW-2	11/13/2000	73.57	----	26.42	----	47.15
GMW-2	05/07/2001	73.57	----	25.65	----	47.92
GMW-2	11/05/2001	73.57	----	24.61	----	48.96
GMW-2	04/08/2002	73.57	----	25.36	----	48.21
GMW-2	10/21/2002	73.57	----	25.91	----	47.66
GMW-2	04/07/2003	73.57	----	25.09	----	48.48
GMW-2	10/06/2003	73.57	----	25.47	----	48.10
GMW-2	01/11/2004	73.57	----	26.76	----	46.81
GMW-2	04/19/2004	73.57	----	26.63	----	46.94
GMW-2	05/02/2005	73.57	----	21.51	----	52.06
GMW-2	10/31/2005	73.57	----	26.42	----	47.15
GMW-2	05/09/2006	73.57	----	22.53	----	51.04
GMW-2	12/04/2006	73.57	----	23.40	----	50.17
GMW-2	04/30/2007	73.57	----	23.61	----	49.96
GMW-2	11/12/2007	73.57	----	23.94	----	49.63
GMW-2	04/14/2008	73.57	----	24.24	----	49.33
GMW-2	10/13/2008	73.57	----	24.95	----	48.62

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-2	04/20/2009	73.57	----	25.00	----	48.57
GMW-2	10/19/2009	73.57	----	26.22	----	47.35
GMW-2	05/24/2010	73.57	----	25.80	----	47.77
GMW-2	05/28/2010	73.57	----	25.80	----	47.77
GMW-2	10/04/2010	73.57	----	25.95	----	47.62
GMW-2	10/10/2011	73.57	----	25.17	----	48.40
GMW-3	11/20/1996	75.10	----	27.76	----	47.34
GMW-3	07/01/1997	75.10	----	27.02	----	48.08
GMW-3	12/31/1997	75.10	----	27.66	----	47.44
GMW-3	05/01/1998	75.10	----	34.12	----	40.98
GMW-3	05/04/1999	75.10	----	25.69	----	49.41
GMW-3	08/09/1999	75.10	----	26.15	----	48.95
GMW-3	11/15/1999	75.10	----	26.54	----	48.56
GMW-3	05/15/2000	75.10	----	26.29	----	48.81
GMW-3	11/13/2000	75.10	----	26.97	----	48.13
GMW-3	05/07/2001	75.10	----	25.10	----	50.00
GMW-3	08/07/2001	75.10	----	28.61	----	46.49
GMW-3	11/05/2001	75.10	----	25.63	----	49.47
GMW-3	04/08/2002	75.10	----	26.26	----	48.84
GMW-3	10/21/2002	75.10	----	27.05	----	48.05
GMW-3	01/27/2003	75.10	----	26.74	----	48.36
GMW-3	04/07/2003	75.10	----	26.26	----	48.84
GMW-3	07/31/2003	75.10	----	25.96	----	49.14
GMW-3	10/06/2003	75.10	----	26.23	----	48.87
GMW-3	01/11/2004	75.10	----	27.56	----	47.54
GMW-3	01/27/2004	75.10	----	26.68	----	48.42
GMW-3	04/19/2004	75.10	----	26.93	----	48.17
GMW-3	07/19/2004	75.10	----	26.92	----	48.18
GMW-3	05/02/2005	75.10	----	21.53	----	53.57
GMW-3	10/31/2005	75.10	26.11	26.13	0.02	NC
GMW-3	02/27/2006	75.10	----	23.73	----	51.37
GMW-3	05/01/2006	75.10	----	23.78	----	51.32
GMW-3	12/04/2006	75.10	----	24.73	----	50.37
GMW-3	04/30/2007	75.10	----	24.99	----	50.11
GMW-3	11/12/2007	75.10	----	25.00	----	50.10
GMW-3	04/14/2008	75.10	----	25.52	----	49.58
GMW-3	04/14/2008	75.10	----	25.40	----	49.70
GMW-3	10/13/2008	75.10	----	26.35	----	48.75
GMW-3	04/20/2009	75.10	----	26.26	----	48.84
GMW-3	10/19/2009	75.10	----	27.81	----	47.29
GMW-3	05/24/2010	75.10	----	27.18	----	47.92
GMW-3	05/28/2010	75.10	----	27.11	----	47.99
GMW-3	10/04/2010	75.10	----	27.37	----	47.73
GMW-3	04/11/2011	75.10	----	26.17	----	48.93

**APPENDIX D
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Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-3	10/10/2011	75.10	----	26.68	----	48.42
GMW-3	04/16/2012	75.10	----	27.93	----	47.17
GMW-3	06/14/2013	75.10	----	29.98	----	45.12
GMW-3	04/14/2014	75.10	----	30.55	----	44.55
GMW-3	10/27/2014	75.10	----	30.90	----	44.20
GMW-3	04/20/2015	75.10	----	31.40	----	43.70
GMW-3	10/19/2015	75.10	----	32.12	----	42.98
GMW-4	05/28/1996	75.45	27.34	28.02	0.68	NC
GMW-4	11/20/1996	75.45	28.25	28.32	0.07	NC
GMW-4	07/01/1997	75.45	----	27.76	----	47.69
GMW-4	12/31/1997	75.45	----	27.25	----	48.20
GMW-4	05/01/1998	75.45	----	24.69	----	50.76
GMW-4	05/04/1999	75.45	26.15	26.23	0.08	NC
GMW-4	08/09/1999	75.45	26.65	26.70	0.05	NC
GMW-4	11/15/1999	75.45	----	27.04	----	48.41
GMW-4	05/15/2000	75.45	----	27.42	----	48.03
GMW-4	11/13/2000	75.45	27.40	27.46	0.06	NC
GMW-4	05/07/2001	75.45	----	25.72	----	49.73
GMW-4	09/18/2001	75.45	25.89	25.92	0.03	NC
GMW-4	11/05/2001	75.45	26.01	26.02	0.01	NC
GMW-4	04/08/2002	75.45	26.70	26.74	0.04	NC
GMW-4	10/21/2002	75.45	27.56	27.59	0.03	NC
GMW-4	04/07/2003	75.45	----	26.84	----	48.61
GMW-4	04/22/2003	75.45	----	26.70	----	48.75
GMW-4	10/06/2003	75.45	26.68	26.70	0.02	NC
GMW-4	04/19/2004	75.45	26.15	26.19	0.04	NC
GMW-4	05/02/2005	75.45	22.30	22.31	0.01	NC
GMW-4	10/31/2005	75.45	18.10	23.84	5.74	NC
GMW-4	05/01/2006	75.45	23.98	24.08	0.10	NC
GMW-4	12/04/2006	75.45	25.08	25.12	0.04	NC
GMW-4	04/30/2007	75.45	----	25.31	----	50.14
GMW-4	11/12/2007	75.45	25.64	25.65	0.01	NC
GMW-4	04/14/2008	75.45	----	25.99	----	49.46
GMW-4	04/14/2008	75.45	----	26.00	----	49.45
GMW-4	11/21/2008	75.45	----	27.00	----	48.45
GMW-4	04/20/2009	75.45	----	26.76	----	48.69
GMW-4	10/19/2009	75.45	27.81	27.86	0.05	NC
GMW-4	05/24/2010	75.45	----	27.55	----	47.90
GMW-4	05/28/2010	75.45	----	27.48	----	47.97
GMW-4	10/04/2010	75.45	27.72	27.76	0.04	NC
GMW-4	04/11/2011	75.45	----	26.59	----	48.86
GMW-4	10/10/2011	75.45	----	27.11	----	48.34
GMW-4	04/16/2012	75.45	28.58	28.68	0.10	NC
GMW-4	04/08/2013	75.45	29.95	30.08	0.13	NC

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15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-4	10/07/2013	75.45	30.33	30.43	0.10	NC
GMW-4	04/14/2014	75.45	30.47	31.06	0.59	NC
GMW-4	10/27/2014	75.45	31.32	31.34	0.02	NC
GMW-4	Well decommissioned in December 2014 prior to remedial excavation					
GMW-4R	4/17/2017	75.13	----	36.15	----	38.98
GMW-4R	10/2/2017	75.13	----	34.57	----	40.56
GMW-5	05/28/1996	77.61	----	30.52	----	47.09
GMW-5	11/20/1996	77.61	----	31.25	----	46.36
GMW-5	07/01/1997	77.61	----	30.95	----	46.66
GMW-5	12/31/1997	77.61	----	31.16	----	46.45
GMW-5	05/01/1998	77.61	----	28.20	----	49.41
GMW-5	05/25/1999	77.61	----	29.01	----	48.60
GMW-5	05/15/2000	77.61	----	29.91	----	47.70
GMW-5	11/13/2000	77.61	----	29.23	----	48.38
GMW-5	05/07/2001	77.61	----	28.82	----	48.79
GMW-5	04/08/2002	77.61	----	29.95	----	47.66
GMW-5	10/21/2002	77.61	----	30.11	----	47.50
GMW-5	04/07/2003	77.61	----	29.68	----	47.93
GMW-5	10/06/2003	77.61	----	29.55	----	48.06
GMW-5	04/19/2004	77.61	----	30.53	----	47.08
GMW-5	05/02/2005	77.61	----	25.73	----	51.88
GMW-5	03/06/2006	77.61	----	27.02	----	50.59
GMW-5	05/01/2006	77.61	----	27.32	----	50.29
GMW-5	08/26/2006	77.61	----	27.67	----	49.94
GMW-5	12/01/2006	77.61	----	28.03	----	49.58
GMW-5	03/21/2007	77.61	----	27.91	----	49.70
GMW-5	04/27/2007	77.61	----	28.50	----	49.11
GMW-5	08/28/2007	77.61	----	28.19	----	49.42
GMW-5	11/12/2007	77.61	----	28.98	----	48.63
GMW-5	02/05/2008	77.61	----	28.93	----	48.68
GMW-5	04/11/2008	77.61	----	28.86	----	48.75
GMW-5	07/24/2008	77.61	----	29.41	----	48.20
GMW-5	10/13/2008	77.61	----	29.97	----	47.64
GMW-5	02/09/2009	77.61	----	29.88	----	47.73
GMW-5	07/16/2009	77.61	----	29.93	----	47.68
GMW-5	04/07/2010	77.61	----	30.35	----	47.26
GMW-5	10/01/2010	77.61	----	30.59	----	47.02
GMW-5	01/06/2011	77.61	----	30.70	----	46.91
GMW-5	04/08/2011	77.61	----	29.52	----	48.09
GMW-5	07/07/2011	77.61	----	29.76	----	47.85
GMW-5	10/06/2011	77.61	----	30.16	----	47.45
GMW-5	04/12/2012	77.61	----	31.33	----	46.28
GMW-5	01/10/2013	77.61	----	32.38	----	45.23
GMW-5	04/02/2013	77.61	----	32.34	----	45.27

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)	
GMW-5	10/01/2013	77.61	----	33.08	----	44.53	
GMW-5	04/07/2014	77.61	----	33.76	----	43.85	
GMW-5	04/14/2014	77.61	----	33.62	----	43.99	
GMW-5	10/27/2014	77.61	----	34.12	----	43.49	
GMW-5	04/20/2015	77.61	----	34.46	----	43.15	
GMW-5	4/17/2017	77.61	----	DRY	----	NC	
GMW-5	10/2/2017	77.61	mud in well to 28.32 feet bgs				
GMW-6	11/20/1996	77.31	----	30.76	----	46.55	
GMW-6	07/01/1997	77.31	----	30.12	----	47.19	
GMW-6	12/31/1997	77.31	----	30.52	----	46.79	
GMW-6	05/01/1998	77.31	----	27.48	----	49.83	
GMW-6	05/25/1999	77.31	----	28.44	----	48.87	
GMW-6	05/15/2000	77.31	----	29.34	----	47.97	
GMW-6	11/13/2000	77.31	----	28.67	----	48.64	
GMW-6	05/07/2001	77.31	----	28.05	----	49.26	
GMW-6	04/08/2002	77.31	----	29.35	----	47.96	
GMW-6	10/21/2002	77.31	----	29.90	----	47.41	
GMW-6	04/07/2003	77.31	----	29.20	----	48.11	
GMW-6	10/06/2003	77.31	----	29.04	----	48.27	
GMW-6	04/19/2004	77.31	----	29.97	----	47.34	
GMW-6	11/01/2004	77.31	----	29.90	----	47.41	
GMW-6	05/02/2005	77.31	----	24.97	----	52.34	
GMW-6	03/06/2006	77.31	----	26.54	----	50.77	
GMW-6	05/01/2006	77.31	----	26.75	----	50.56	
GMW-6	08/26/2006	77.31	----	27.12	----	50.19	
GMW-6	12/01/2006	77.31	----	27.52	----	49.79	
GMW-6	03/21/2007	77.31	----	28.06	----	49.25	
GMW-6	04/27/2007	77.31	----	28.02	----	49.29	
GMW-6	08/28/2007	77.31	----	28.51	----	48.80	
GMW-6	11/12/2007	77.31	----	28.48	----	48.83	
GMW-6	02/05/2008	77.31	----	29.32	----	47.99	
GMW-6	04/11/2008	77.31	----	28.34	----	48.97	
GMW-6	07/24/2008	77.31	----	28.81	----	48.50	
GMW-6	10/13/2008	77.31	----	29.48	----	47.83	
GMW-6	02/09/2009	77.31	----	29.62	----	47.69	
GMW-6	04/20/2009	77.31	----	29.21	----	48.10	
GMW-6	07/16/2009	77.31	----	29.51	----	47.80	
GMW-6	10/19/2009	77.31	----	29.94	----	47.37	
GMW-6	04/07/2010	77.31	----	29.74	----	47.57	
GMW-6	04/12/2010	77.31	----	29.42	----	47.89	
GMW-6	01/06/2011	77.31	----	30.23	----	47.08	
GMW-6	02/24/2011	77.31	----	29.29	----	48.02	
GMW-6	04/08/2011	77.31	----	28.86	----	48.45	
GMW-6	07/07/2011	77.31	----	29.16	----	48.15	

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-6	10/06/2011	77.31	----	29.62	----	47.69
GMW-6	04/12/2012	77.31	----	30.86	----	46.45
GMW-6	04/19/2012	77.31	----	30.57	----	46.74
GMW-6	01/10/2013	77.31	----	31.96	----	45.35
GMW-6	04/02/2013	77.31	----	31.91	----	45.40
GMW-6	04/08/2013	77.31	----	31.91	----	45.40
GMW-6	10/01/2013	77.31	----	32.66	----	44.65
GMW-6	04/07/2014	77.31	----	33.33	----	43.98
GMW-6	04/14/2014	77.31	----	33.18	----	44.13
GMW-6	10/27/2014	77.31	----	33.65	----	43.66
GMW-6	04/20/2015	77.31	----	33.95	----	43.36
GMW-6	10/19/2015	77.31	----	34.72	----	42.59
GMW-6	04/12/2016	77.31	----	35.25	----	42.06
GMW-6	10/3/2016	77.31	----	35.63	----	41.68
GMW-6	4/17/2017	77.31	----	34.91	----	42.40
GMW-6	10/2/2017	77.31	----	35.56	----	41.75
GMW-7	05/28/1996	75.84	27.21	32.89	5.68	NC
GMW-7	07/01/1997	75.84	28.30	31.57	3.27	NC
GMW-7	12/31/1997	75.84	28.30	32.10	3.80	NC
GMW-7	05/01/1998	75.84	20.80	25.90	5.10	NC
GMW-7	05/25/1999	75.84	26.18	30.37	4.19	NC
GMW-7	05/15/2000	75.84	----	30.13	----	45.71
GMW-7	11/13/2000	75.84	----	29.17	----	46.67
GMW-7	05/07/2001	75.84	26.45	27.40	0.95	NC
GMW-7	04/08/2002	75.84	----	28.77	----	47.07
GMW-7	09/19/2002	75.84	----	28.73	----	47.11
GMW-7	10/21/2002	75.84	----	28.05	----	47.79
GMW-7	04/07/2003	75.84	27.77	28.15	0.38	NC
GMW-7	10/06/2003	75.84	27.60	27.78	0.18	NC
GMW-7	04/19/2004	75.84	29.05	29.17	0.12	NC
GMW-7	11/01/2004	75.84	27.76	28.01	0.25	NC
GMW-7	02/28/2005	75.84	----	24.65	----	51.19
GMW-7	05/02/2005	75.84	----	23.90	----	51.94
GMW-7	03/06/2006	75.84	----	25.40	----	50.44
GMW-7	05/01/2006	75.84	----	25.30	----	50.54
GMW-7	08/26/2006	75.84	----	25.66	----	50.18
GMW-7	12/01/2006	75.84	----	25.98	----	49.86
GMW-7	03/21/2007	75.84	----	26.58	----	49.26
GMW-7	04/30/2007	75.84	----	26.49	----	49.35
GMW-7	08/28/2007	75.84	----	26.92	----	48.92
GMW-7	11/12/2007	75.84	----	27.08	----	48.76
GMW-7	02/05/2008	75.84	----	27.61	----	48.23
GMW-7	04/14/2008	75.84	----	26.70	----	49.14
GMW-7	10/14/2008	75.84	27.76	27.79	0.03	NC

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-7	02/10/2009	75.84	----	26.23	----	49.61
GMW-7	07/17/2009	75.84	----	27.65	----	48.19
GMW-7	04/08/2010	75.84	----	28.90	----	46.94
GMW-7	10/01/2010	75.84	----	28.54	----	47.30
GMW-7	01/08/2011	75.84	----	28.62	----	47.22
GMW-7	04/12/2012	75.84	----	29.28	----	46.56
GMW-7	10/02/2013	75.84	31.28	31.41	0.13	NC
GMW-7	04/07/2014	75.84	32.01	32.05	0.04	NC
GMW-7	04/16/2014	75.84	31.88	31.92	0.04	NC
GMW-7	10/27/2014	75.84	32.20	32.22	0.02	NC
GMW-7	04/20/2015	75.84	----	32.59	----	43.25
GMW-7	04/11/2016	75.84	----	33.99	----	41.85
GMW-7	10/3/2016	75.84	----	34.36	----	41.48
GMW-7	4/19/2017	75.84	34.28	34.30	0.02	NC
GMW-7	10/3/2017	76.87	----	35.13	----	41.74
GMW-8	05/28/1996	73.20	----	26.42	----	46.78
GMW-8	11/20/1996	73.20	----	26.72	----	46.48
GMW-8	07/01/1997	73.20	----	28.07	----	45.13
GMW-8	12/31/1997	73.20	----	26.85	----	46.35
GMW-8	05/01/1998	73.20	----	24.24	----	48.96
GMW-8	05/04/1999	73.20	----	25.51	----	47.69
GMW-8	11/15/1999	73.20	----	25.66	----	47.54
GMW-8	05/15/2000	73.20	----	26.03	----	47.17
GMW-8	11/13/2000	73.20	----	26.45	----	46.75
GMW-8	05/07/2001	73.20	----	24.49	----	48.71
GMW-8	11/05/2001	73.20	----	24.38	----	48.82
GMW-8	04/08/2002	73.20	----	25.49	----	47.71
GMW-8	10/21/2002	73.20	----	26.43	----	46.77
GMW-8	04/07/2003	73.20	----	24.93	----	48.27
GMW-8	10/06/2003	73.20	----	25.72	----	47.48
GMW-8	01/11/2004	73.20	----	26.95	----	46.25
GMW-8	04/19/2004	73.20	----	27.00	----	46.20
GMW-8	05/02/2005	73.20	----	21.74	----	51.46
GMW-8	10/31/2005	73.20	----	27.13	----	46.07
GMW-8	05/01/2006	73.20	----	22.59	----	50.61
GMW-8	12/04/2006	73.20	----	23.34	----	49.86
GMW-8	04/30/2007	73.20	----	23.46	----	49.74
GMW-8	11/12/2007	73.20	----	23.83	----	49.37
GMW-8	04/14/2008	73.20	----	24.29	----	48.91
GMW-8	10/13/2008	73.20	----	24.43	----	48.77
GMW-8	04/20/2009	73.20	----	24.88	----	48.32
GMW-8	10/19/2009	73.20	----	25.69	----	47.51
GMW-8	05/24/2010	73.20	----	25.98	----	47.22
GMW-8	05/28/2010	73.20	----	25.87	----	47.33

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GMW-8	10/04/2010	73.20	----	25.80	----	47.40
GMW-8	06/14/2013	73.20	----	29.02	----	44.18
GMW-8	04/14/2014	73.20	----	29.60	----	43.60
GMW-8	10/27/2014	73.20	----	29.96	----	43.24
GMW-8	04/20/2015	73.20	----	30.43	----	42.77
GMW-8	10/19/2015	73.20	----	31.13	----	42.07
GMW-8	04/11/2016	73.20	----	32.20	----	41.00
GMW-8	10/3/2016	73.20	----	33.47	----	39.73
GMW-8	4/17/2017	73.20	----	30.74	----	42.46
GMW-8	10/2/2017	73.20	----	33.40	----	39.80
GMW-9	08/07/2001	74.44	27.23	27.74	0.51	NC
GMW-9	10/21/2002	74.44	28.95	28.97	0.02	NC
GMW-9	04/07/2003	74.44	29.56	29.59	0.03	NC
GMW-9	10/06/2003	74.44	28.14	28.30	0.16	NC
GMW-9	04/19/2004	74.44	----	28.71	----	45.73
GMW-9	05/02/2005	74.44	----	24.72	----	49.72
GMW-9	10/31/2005	74.44	25.31	25.56	0.25	NC
GMW-9	05/01/2006	74.44	25.65	25.86	0.21	NC
GMW-9	12/04/2006	74.44	27.79	27.88	0.09	NC
GMW-9	04/30/2007	74.44	----	26.71	----	47.73
GMW-9	11/12/2007	74.44	27.04	27.32	0.28	NC
GMW-9	08/08/2008	74.44	27.96	28.01	0.05	NC
GMW-9	10/16/2008	74.77	28.35	28.36	0.01	NC
GMW-9	04/21/2009	74.44	----	28.16	----	46.28
GMW-9	05/24/2010	74.44	----	30.47	----	43.97
GMW-9	05/28/2010	74.44	----	30.35	----	44.09
GMW-9	10/04/2010	74.44	----	30.30	----	44.14
GMW-9	01/10/2011	74.44	----	32.02	----	42.42
GMW-9	04/11/2011	74.44	----	25.41	----	49.03
GMW-9	10/10/2011	74.44	----	28.91	----	45.53
GMW-9	04/16/2012	74.44	----	31.15	----	43.29
GMW-9	07/09/2012	ns	----	31.64	----	NC
GMW-9	10/15/2012	77.16	----	31.82	----	45.34
GMW-9	01/14/2013	77.16	----	31.88	----	45.28
GMW-9	04/08/2013	77.16	----	31.83	----	45.33
GMW-9	10/07/2013	77.16	31.25	35.30	4.05	NC
GMW-9	04/14/2014	77.16	31.65	37.66	6.01	NC
GMW-9	07/03/2014	77.16	32.59	39.26	6.67	NC
GMW-9	10/27/2014	77.16	32.42	36.04	3.62	NC
GMW-9	04/20/2015	77.16	32.99	36.98	3.99	NC
GMW-9	10/20/2015	77.16	34.37	34.61	0.24	NC
GMW-9	04/11/2016	77.16	----	36.20	----	40.96
GMW-9	10/3/2016	77.16	----	38.02	----	39.14
GMW-9	4/20/2017	77.16	----	33.32	----	43.84

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-9	10/2/2017	77.16	----	38.43	----	38.73
GMW-10	10/21/2002	74.67	----	33.71	----	40.96
GMW-10	11/04/2002	74.67	26.25	34.00	7.75	NC
GMW-10	04/07/2003	74.67	26.47	26.47	0.00	NC
GMW-10	10/06/2003	72.90	26.51	26.72	0.21	NC
GMW-10	04/19/2004	74.67	----	28.42	----	46.25
GMW-10	05/02/2005	74.67	21.16	27.53	6.37	NC
GMW-10	10/31/2005	74.67	26.03	26.10	0.07	NC
GMW-10	05/01/2006	74.67	23.65	24.18	0.53	NC
GMW-10	12/04/2006	74.67	24.38	25.55	1.17	NC
GMW-10	04/30/2007	74.67	----	25.90	----	48.77
GMW-10	11/12/2007	74.67	25.02	25.82	0.80	NC
GMW-10	04/14/2008	74.67	25.38	25.44	0.06	NC
GMW-10	10/13/2008	74.67	----	24.16	----	50.51
GMW-10	04/20/2009	74.67	----	24.46	----	50.21
GMW-10	10/19/2009	74.67	----	27.20	----	47.47
GMW-10	05/24/2010	74.67	----	26.72	----	47.95
GMW-10	05/28/2010	74.67	----	26.70	----	47.97
GMW-10	10/04/2010	74.67	----	27.15	----	47.52
GMW-10	04/11/2011	74.67	----	25.21	----	49.46
GMW-10	10/10/2011	74.67	----	27.75	----	46.92
GMW-10	04/27/2012	74.67	----	28.47	----	46.20
GMW-10	10/15/2012	74.67	29.02	29.15	0.13	NC
GMW-10	04/08/2013	74.67	28.12	33.64	5.52	NC
GMW-10	10/07/2013	----	29.32	31.85	2.53	NC
GMW-10	04/14/2014	73.35	29.01	29.43	0.42	NC
GMW-10	10/27/2014	----	29.12	30.19	1.07	NC
GMW-10	04/20/2015	73.35	28.42	34.99	6.57	NC
GMW-10	10/20/2015	73.35	31.02	32.96	1.94	NC
GMW-10	04/11/2016	73.35	32.10	33.70	1.60	NC
GMW-10	10/3/2016	73.35	33.65	35.10	1.45	NC
GMW-10	4/20/2017	73.35	----	31.15	----	42.20
GMW-10	10/2/2017	73.36	----	33.48	----	39.88
GMW-11	05/28/1996	72.90	----	25.19	----	47.71
GMW-11	11/20/1996	72.90	----	26.35	----	46.55
GMW-11	07/01/1997	72.90	----	26.17	----	46.73
GMW-11	12/31/1997	72.90	----	26.73	----	46.17
GMW-11	05/01/1998	72.90	----	23.37	----	49.53
GMW-11	05/04/1999	72.90	----	24.46	----	48.44
GMW-11	11/15/1999	72.90	----	25.11	----	47.79
GMW-11	05/15/2000	72.90	----	24.96	----	47.94
GMW-11	11/13/2000	72.90	----	25.64	----	47.26
GMW-11	05/07/2001	72.90	----	23.81	----	49.09
GMW-11	08/07/2001	72.90	25.21	27.21	2.00	NC

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-11	11/05/2001	72.90	----	23.79	----	49.11
GMW-11	04/08/2002	72.90	----	25.62	----	47.28
GMW-11	10/21/2002	72.90	----	25.38	----	47.52
GMW-11	04/07/2003	72.90	----	24.37	----	48.53
GMW-11	10/06/2003	72.90	----	24.67	----	48.23
GMW-11	04/19/2004	72.90	----	25.16	----	47.74
GMW-11	10/31/2005	72.90	----	23.10	----	49.80
GMW-11	05/01/2006	72.90	----	22.26	----	50.64
GMW-11	05/09/2006	72.90	----	22.09	----	50.81
GMW-11	12/01/2006	72.90	----	23.20	----	49.70
GMW-11	04/30/2007	72.90	----	23.26	----	49.64
GMW-11	04/30/2007	72.90	----	23.32	----	49.58
GMW-11	04/14/2008	72.90	----	23.75	----	49.15
GMW-11	04/14/2008	72.90	----	23.77	----	49.13
GMW-11	10/13/2008	72.90	----	24.62	----	48.28
GMW-11	10/14/2008	72.90	----	24.82	----	48.08
GMW-11	04/20/2009	72.90	----	24.65	----	48.25
GMW-11	10/19/2009	72.90	----	25.69	----	47.21
GMW-11	05/24/2010	72.90	----	25.45	----	47.45
GMW-11	05/28/2010	72.90	----	25.39	----	47.51
GMW-11	10/04/2010	72.90	----	25.48	----	47.42
GMW-11	04/11/2011	72.90	----	24.14	----	48.76
GMW-11	10/10/2011	72.90	----	24.98	----	47.92
GMW-11	04/16/2012	72.90	----	26.03	----	46.87
GMW-11	10/15/2012	72.90	----	27.05	----	45.85
GMW-11	04/08/2013	72.90	----	27.92	----	44.98
GMW-11	04/15/2016	72.90	----	31.67	----	41.23
GMW-11	4/17/2017	72.90	----	30.29	----	42.61
GMW-11	10/2/2017	72.90	----	32.89	----	40.01
GMW-12	05/28/1996	75.21	27.36	28.02	0.66	NC
GMW-12	11/20/1996	75.21	----	28.25	----	46.96
GMW-12	07/01/1997	75.21	----	27.65	----	47.56
GMW-12	12/31/1997	75.21	----	28.05	----	47.16
GMW-12	05/01/1998	75.21	----	25.06	----	50.15
GMW-12	05/25/1999	75.21	----	26.17	----	49.04
GMW-12	05/15/2000	75.21	----	26.81	----	48.40
GMW-12	11/13/2000	75.21	----	27.40	----	47.81
GMW-12	05/07/2001	75.21	----	25.65	----	49.56
GMW-12	08/07/2001	75.21	25.74	26.15	0.41	NC
GMW-12	04/08/2002	75.21	----	26.89	----	48.32
GMW-12	10/21/2002	75.21	----	27.40	----	47.81
GMW-12	04/07/2003	75.21	----	26.60	----	48.61
GMW-12	10/06/2003	75.21	----	26.45	----	48.76
GMW-12	04/19/2004	75.21	----	27.54	----	47.67

**APPENDIX D
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15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-12	11/01/2004	75.21	----	27.76	----	47.45
GMW-12	05/02/2005	75.21	----	21.20	----	54.01
GMW-12	05/01/2006	75.21	----	24.03	----	51.18
GMW-12	12/04/2006	75.21	----	25.03	----	50.18
GMW-12	04/30/2007	75.21	----	25.51	----	49.70
GMW-12	11/12/2007	75.21	----	25.46	----	49.75
GMW-12	04/14/2008	75.21	----	25.72	----	49.49
GMW-12	07/24/2008	75.21	----	26.06	----	49.15
GMW-12	10/14/2008	75.21	----	26.83	----	48.38
GMW-12	02/10/2009	75.21	----	26.39	----	48.82
GMW-12	04/20/2009	75.21	----	26.38	----	48.83
GMW-12	10/19/2009	75.21	----	27.62	----	47.59
GMW-12	04/08/2010	75.21	----	27.17	----	48.04
GMW-12	04/12/2010	75.21	----	26.83	----	48.38
GMW-12	01/08/2011	75.21	----	28.05	----	47.16
GMW-12	04/07/2011	75.21	----	26.54	----	48.67
GMW-12	07/08/2011	75.21	----	26.57	----	48.64
GMW-12	10/07/2011	75.21	----	27.25	----	47.96
GMW-12	04/12/2012	75.21	----	28.38	----	46.83
GMW-12	04/16/2012	75.21	----	28.25	----	46.96
GMW-12	01/10/2013	75.21	----	29.97	----	45.24
GMW-12	04/03/2013	75.21	----	29.88	----	45.33
GMW-12	04/08/2013	75.21	----	29.94	----	45.27
GMW-12	10/02/2013	75.21	----	30.54	----	44.67
GMW-12	04/07/2014	75.21	----	31.46	----	43.75
GMW-12	04/16/2014	75.21	----	30.96	----	44.25
GMW-12	10/27/2014	75.21	----	31.39	----	43.82
GMW-12	04/20/2015	75.21	----	31.74	----	43.47
GMW-12	10/3/2016	75.21	----	34.45	----	40.76
GMW-12	4/20/2017	75.21	----	32.40	----	42.81
GMW-12	10/3/2017	75.21	----	34.32	----	40.89
GMW-13	05/28/1996	74.17	----	26.91	----	47.26
GMW-13	11/20/1996	74.17	----	26.89	----	47.28
GMW-13	07/01/1997	74.17	----	25.92	----	48.25
GMW-13	12/31/1997	74.17	----	25.58	----	48.59
GMW-13	05/01/1998	74.17	----	23.10	----	51.07
GMW-13	05/04/1999	74.17	----	24.75	----	49.42
GMW-13	11/15/1999	74.17	----	25.65	----	48.52
GMW-13	05/15/2000	74.17	----	25.38	----	48.79
GMW-13	11/13/2000	74.17	----	26.02	----	48.15
GMW-13	05/07/2001	74.17	----	24.28	----	49.89
GMW-13	11/05/2001	74.17	----	24.67	----	49.50
GMW-13	02/01/2002	74.17	----	24.65	----	49.52
GMW-13	04/08/2002	74.17	----	25.40	----	48.77

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Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-13	10/21/2002	74.17	----	26.15	----	48.02
GMW-13	04/07/2003	74.17	----	25.32	----	48.85
GMW-13	10/06/2003	74.17	----	25.13	----	49.04
GMW-13	01/11/2004	74.17	----	26.58	----	47.59
GMW-13	04/19/2004	74.17	----	26.96	----	47.21
GMW-13	05/02/2005	74.17	----	20.54	----	53.63
GMW-13	10/31/2005	74.17	----	22.32	----	51.85
GMW-13	05/01/2006	74.17	----	22.82	----	51.35
GMW-13	12/04/2006	74.17	----	23.75	----	50.42
GMW-13	04/30/2007	74.17	----	24.10	----	50.07
GMW-13	11/12/2007	74.17	----	24.89	----	49.28
GMW-13	04/14/2008	74.17	----	24.60	----	49.57
GMW-13	10/13/2008	74.17	----	26.27	----	47.90
GMW-13	04/20/2009	74.17	----	25.41	----	48.76
GMW-13	10/19/2009	74.17	----	26.45	----	47.72
GMW-13	05/24/2010	74.17	----	25.86	----	48.31
GMW-13	05/28/2010	74.17	----	25.63	----	48.54
GMW-13	10/04/2010	74.17	----	26.41	----	47.76
GMW-13	04/11/2011	74.17	----	25.23	----	48.94
GMW-13	10/10/2011	74.17	----	25.92	----	48.25
GMW-13	04/16/2012	74.17	----	27.09	----	47.08
GMW-13	10/15/2012	74.17	----	27.89	----	46.28
GMW-13	04/08/2013	74.17	----	28.67	----	45.50
GMW-13	10/07/2013	74.17	----	29.65	----	44.52
GMW-13	04/14/2014	74.17	----	29.66	----	44.51
GMW-13	10/27/2014	74.17	----	30.02	----	44.15
GMW-13	04/20/2015	74.17	----	30.39	----	43.78
GMW-13	10/19/2015	74.17	----	31.16	----	43.01
GMW-13	04/11/2016	74.17	----	32.13	----	42.04
GMW-13	10/3/2016	74.17	----	33.20	----	40.97
GMW-13	4/17/2017	74.17	----	30.92	----	43.25
GMW-13	10/2/2017	74.17	----	33.86	----	40.31
GMW-14	05/04/1999	74.72	----	25.37	----	49.35
GMW-14	08/09/1999	74.72	----	25.95	----	48.77
GMW-14	11/15/1999	74.72	----	26.27	----	48.45
GMW-14	05/15/2000	74.72	----	26.02	----	48.70
GMW-14	11/13/2000	74.72	----	26.67	----	48.05
GMW-14	05/07/2001	74.72	----	24.92	----	49.80
GMW-14	11/05/2001	74.72	----	25.28	----	49.44
GMW-14	04/08/2002	74.72	----	26.00	----	48.72
GMW-14	10/21/2002	74.72	----	26.79	----	47.93
GMW-14	04/07/2003	74.72	----	25.25	----	49.47
GMW-14	10/06/2003	74.72	----	25.91	----	48.81
GMW-14	01/11/2004	74.72	----	27.21	----	47.51

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Defense Fuel Support Point Norwalk
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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-14	04/19/2004	74.72	----	28.69	----	46.03
GMW-14	05/02/2005	74.72	----	21.29	----	53.43
GMW-14	10/31/2005	74.72	----	22.96	----	51.76
GMW-14	05/01/2006	74.72	----	23.44	----	51.28
GMW-14	12/04/2006	74.72	----	24.39	----	50.33
GMW-14	04/30/2007	74.72	----	24.61	----	50.11
GMW-14	11/12/2007	74.72	----	24.55	----	50.17
GMW-14	04/14/2008	74.72	----	28.15	----	46.57
GMW-14	10/13/2008	74.72	----	27.23	----	47.49
GMW-14	04/20/2009	74.72	----	25.97	----	48.75
GMW-14	10/19/2009	74.72	----	27.31	----	47.41
GMW-14	10/04/2010	74.72	----	26.99	----	47.73
GMW-14	04/11/2011	74.72	----	25.88	----	48.84
GMW-14	10/10/2011	74.72	----	26.71	----	48.01
GMW-14	04/16/2012	74.72	----	27.98	----	46.74
GMW-14	10/15/2012	74.72	----	28.91	----	45.81
GMW-14	04/08/2013	74.72	----	29.20	----	45.52
GMW-14	10/07/2013	74.72	----	30.15	----	44.57
GMW-14	04/14/2014	74.72	----	30.25	----	44.47
GMW-14	10/27/2014	74.72	----	30.63	----	44.09
GMW-14	Well decommissioned in December 2014 prior to remedial excavation					
GMW-14R	4/17/2017	78.77	----	35.32	----	43.45
GMW-14R	10/2/2017	75.30	----	34.40	----	40.90
GMW-15	05/28/1996	76.21	28.71	29.16	0.45	NC
GMW-15	11/20/1996	76.21	----	29.70	----	46.51
GMW-15	07/01/1997	76.21	----	29.39	----	46.82
GMW-15	12/31/1997	76.21	----	29.40	----	46.81
GMW-15	05/01/1998	76.21	----	26.71	----	49.50
GMW-15	05/25/1999	76.21	----	27.51	----	48.70
GMW-15	05/15/2000	76.21	----	22.59	----	53.62
GMW-15	05/15/2000	76.21	----	28.39	----	47.82
GMW-15	11/13/2000	76.21	----	27.75	----	48.46
GMW-15	11/13/2000	76.21	----	28.80	----	47.41
GMW-15	05/07/2001	76.21	----	26.60	----	49.61
GMW-15	05/07/2001	76.21	----	27.02	----	49.19
GMW-15	04/08/2002	76.21	----	28.51	----	47.70
GMW-15	10/21/2002	76.21	----	28.49	----	47.72
GMW-15	04/07/2003	76.21	----	28.25	----	47.96
GMW-15	10/06/2003	76.21	----	28.00	----	48.21
GMW-15	04/19/2004	76.21	----	29.23	----	46.98
GMW-15	11/01/2004	76.21	----	28.91	----	47.30
GMW-15	05/02/2005	76.21	----	23.85	----	52.36
GMW-15	03/06/2006	76.21	----	25.42	----	50.79
GMW-15	05/01/2006	76.21	----	25.70	----	50.51

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Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-15	08/26/2006	76.21	----	26.05	----	50.16
GMW-15	12/01/2006	76.21	----	26.45	----	49.76
GMW-15	03/21/2007	76.21	----	26.38	----	49.83
GMW-15	04/27/2007	76.21	----	26.90	----	49.31
GMW-15	08/28/2007	76.21	----	26.70	----	49.51
GMW-15	11/12/2007	76.21	----	27.38	----	48.83
GMW-15	02/05/2008	76.21	----	27.78	----	48.43
GMW-15	04/11/2008	76.21	----	27.29	----	48.92
GMW-15	07/24/2008	76.21	----	27.52	----	48.69
GMW-15	10/13/2008	76.21	----	28.36	----	47.85
GMW-15	02/09/2009	76.21	----	28.51	----	47.70
GMW-15	04/20/2009	76.21	----	28.31	----	47.90
GMW-15	07/16/2009	76.21	----	28.32	----	47.89
GMW-15	10/19/2009	76.21	----	28.90	----	47.31
GMW-15	04/08/2010	76.21	----	28.51	----	47.70
GMW-15	04/12/2010	76.21	----	28.24	----	47.97
GMW-15	01/06/2011	76.21	----	29.10	----	47.11
GMW-15	04/08/2011	76.21	----	27.81	----	48.40
GMW-15	07/07/2011	76.21	----	28.05	----	48.16
GMW-15	10/06/2011	76.21	----	28.53	----	47.68
GMW-15	04/12/2012	76.21	----	29.75	----	46.46
GMW-15	04/19/2012	76.21	----	29.45	----	46.76
GMW-15	01/10/2013	76.21	----	30.88	----	45.33
GMW-15	04/02/2013	76.21	----	30.82	----	45.39
GMW-15	04/08/2013	76.21	----	30.78	----	45.43
GMW-15	10/01/2013	76.21	----	31.60	----	44.61
GMW-15	04/07/2014	76.21	----	32.30	----	43.91
GMW-15	04/15/2014	76.21	----	32.02	----	44.19
GMW-15	10/27/2014	76.21	----	32.58	----	43.63
GMW-15	04/22/2015	76.21	----	32.92	----	43.29
GMW-15	10/19/2015	76.21	----	33.62	----	42.59
GMW-15	04/11/2016	76.21	----	35.19	----	41.02
GMW-15	10/3/2016	76.21	----	34.51	----	41.70
GMW-15	4/19/2017	76.21	----	33.75	----	42.46
GMW-15	10/2/2017	76.21	----	34.45	----	41.76
GMW-16	05/28/1996	77.00	----	29.86	----	47.14
GMW-16	11/20/1996	77.00	----	30.60	----	46.40
GMW-16	07/01/1997	77.00	----	31.61	----	45.39
GMW-16	12/31/1997	77.00	----	30.60	----	46.40
GMW-16	05/01/1998	77.00	----	27.73	----	49.27
GMW-16	05/25/1999	77.00	----	28.46	----	48.54
GMW-16	05/15/2000	77.00	----	29.50	----	47.50
GMW-16	11/13/2000	77.00	----	28.67	----	48.33
GMW-16	05/07/2001	77.00	----	28.38	----	48.62

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-16	04/08/2002	77.00	----	29.42	----	47.58
GMW-16	10/21/2002	77.00	----	29.15	----	47.85
GMW-16	04/07/2003	77.00	----	29.20	----	47.80
GMW-16	10/06/2003	77.00	----	28.92	----	48.08
GMW-16	04/19/2004	77.00	----	30.03	----	46.97
GMW-16	11/05/2004	77.00	----	29.53	----	47.47
GMW-16	05/02/2005	77.00	----	25.05	----	51.95
GMW-16	03/06/2006	77.00	----	26.35	----	50.65
GMW-16	05/01/2006	77.00	----	26.65	----	50.35
GMW-16	08/26/2006	77.00	----	26.98	----	50.02
GMW-16	12/01/2006	77.00	----	27.31	----	49.69
GMW-16	03/21/2007	77.00	----	27.51	----	49.49
GMW-16	04/27/2007	77.00	----	27.72	----	49.28
GMW-16	08/28/2007	77.00	----	27.99	----	49.01
GMW-16	11/12/2007	77.00	----	28.33	----	48.67
GMW-16	02/05/2008	77.00	----	28.68	----	48.32
GMW-16	04/11/2008	77.00	----	28.13	----	48.87
GMW-16	07/24/2008	77.00	----	28.56	----	48.44
GMW-16	10/13/2008	77.00	----	29.21	----	47.79
GMW-16	02/09/2009	77.00	----	29.18	----	47.82
GMW-16	04/20/2009	77.00	----	30.50	----	46.50
GMW-16	07/16/2009	77.00	----	29.52	----	47.48
GMW-16	10/19/2009	77.00	----	30.24	----	46.76
GMW-16	04/07/2010	77.00	----	29.68	----	47.32
GMW-16	04/12/2010	77.00	----	29.38	----	47.62
GMW-16	01/08/2011	77.00	----	26.47	----	50.53
GMW-16	07/07/2011	77.00	----	29.04	----	47.96
GMW-16	10/06/2011	77.00	----	29.48	----	47.52
GMW-16	04/12/2012	77.00	----	30.53	----	46.47
GMW-16	04/18/2012	77.00	----	30.29	----	46.71
GMW-16	01/11/2013	77.00	----	31.68	----	45.32
GMW-16	04/02/2013	77.00	----	31.66	----	45.34
GMW-16	04/08/2013	77.00	----	31.65	----	45.35
GMW-16	10/02/2013	77.00	----	32.35	----	44.65
GMW-16	04/09/2014	77.00	----	33.03	----	43.97
GMW-16	04/14/2014	77.00	----	32.95	----	44.05
GMW-16	10/27/2014	77.00	----	33.43	----	43.57
GMW-16	04/22/2015	77.00	----	33.22	----	43.78
GMW-16	4/17/2017	77.00	----	34.15	----	42.85
GMW-16	10/2/2017	77.00	----	36.05	----	40.95
GMW-17	05/28/1996	74.66	26.65	30.51	3.86	NC
GMW-17	11/20/1996	74.66	27.27	31.79	4.52	NC
GMW-17	07/01/1997	74.66	27.38	32.71	5.33	NC
GMW-17	12/31/1997	74.66	26.92	32.74	5.82	NC

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-17	05/01/1998	74.66	25.04	25.19	0.15	NC
GMW-17	05/25/1999	74.66	----	27.06	----	47.60
GMW-17	05/15/2000	74.66	25.13	25.18	0.05	NC
GMW-17	11/13/2000	74.66	----	26.52	----	48.14
GMW-17	05/07/2001	74.66	----	25.32	----	49.34
GMW-17	04/08/2002	74.66	----	26.70	----	47.96
GMW-17	09/19/2002	74.66	27.70	27.89	0.19	NC
GMW-17	10/21/2002	74.66	----	27.67	----	46.99
GMW-17	04/07/2003	74.66	----	26.60	----	48.06
GMW-17	10/06/2003	74.66	----	26.60	----	48.06
GMW-17	04/19/2004	74.66	----	25.58	----	49.08
GMW-17	11/01/2004	74.66	----	27.51	----	47.15
GMW-17	02/28/2005	74.66	----	22.85	----	51.81
GMW-17	05/02/2005	74.66	----	21.23	----	53.43
GMW-17	03/06/2006	74.66	----	23.76	----	50.90
GMW-17	05/01/2006	74.66	----	23.75	----	50.91
GMW-17	08/26/2006	74.66	----	24.36	----	50.30
GMW-17	12/01/2006	74.66	----	24.86	----	49.80
GMW-17	03/21/2007	74.66	----	25.04	----	49.62
GMW-17	04/30/2007	74.66	----	25.23	----	49.43
GMW-17	08/28/2007	74.66	----	25.42	----	49.24
GMW-17	11/12/2007	74.66	----	25.63	----	49.03
GMW-17	02/05/2008	74.66	----	26.25	----	48.41
GMW-17	04/11/2008	74.66	----	25.10	----	49.56
GMW-17	07/24/2008	74.66	----	25.91	----	48.75
GMW-17	10/14/2008	74.66	----	26.35	----	48.31
GMW-17	02/10/2009	74.66	----	27.05	----	47.61
GMW-17	04/20/2009	74.66	----	26.00	----	48.66
GMW-17	07/16/2009	74.66	----	27.15	----	47.51
GMW-17	10/19/2009	74.66	----	27.51	----	47.15
GMW-17	04/08/2010	74.66	----	25.92	----	48.74
GMW-17	04/12/2010	74.66	----	25.83	----	48.83
GMW-17	04/08/2011	74.66	----	24.04	----	50.62
GMW-17	07/08/2011	74.66	----	25.50	----	49.16
GMW-17	10/06/2011	74.66	----	26.20	----	48.46
GMW-17	04/12/2012	74.66	----	27.94	----	46.72
GMW-17	04/20/2012	74.66	----	27.77	----	46.89
GMW-17	01/11/2013	74.66	----	29.50	----	45.16
GMW-17	04/03/2013	74.66	----	29.38	----	45.28
GMW-17	04/08/2013	74.66	----	29.34	----	45.32
GMW-17	10/02/2013	74.66	----	30.11	----	44.55
GMW-17	04/09/2014	74.66	----	30.83	----	43.83
GMW-17	04/17/2014	74.66	----	30.72	----	43.94
GMW-17	10/27/2014	74.66	----	31.03	----	43.63

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-17	Well decommissioned in December 2014 prior to remedial excavation					
GMW-17R	10/3/2017	77.79	----	36.77	----	41.02
GMW-18	11/20/1996	75.36	28.40	32.50	4.10	NC
GMW-18	07/01/1997	75.36	27.70	31.50	3.80	NC
GMW-18	12/31/1997	75.36	28.01	32.08	4.07	NC
GMW-18	05/01/1998	75.36	18.61	24.64	6.03	NC
GMW-18	05/25/1999	75.36	25.77	29.48	3.71	NC
GMW-18	05/15/2000	75.36	26.28	30.35	4.07	NC
GMW-18	11/18/2000	75.36	----	28.77	----	46.59
GMW-18	05/07/2001	75.36	24.80	29.70	4.90	NC
GMW-18	04/08/2002	75.36	----	27.74	----	47.62
GMW-18	09/19/2002	75.36	27.97	28.02	0.05	NC
GMW-18	10/21/2002	75.36	----	28.74	----	46.62
GMW-18	04/07/2003	75.36	----	27.06	----	48.30
GMW-18	10/06/2003	75.36	26.66	27.40	0.74	NC
GMW-18	04/19/2004	75.36	----	27.33	----	48.03
GMW-18	11/01/2004	75.36	27.27	27.44	0.17	NC
GMW-18	02/28/2005	75.36	23.85	23.87	0.02	NC
GMW-18	05/02/2005	75.36	----	22.40	----	52.96
GMW-18	03/06/2006	75.36	----	24.21	----	51.15
GMW-18	05/01/2006	75.36	----	24.50	----	50.86
GMW-18	08/26/2006	75.36	----	24.91	----	50.45
GMW-18	12/01/2006	75.36	----	25.20	----	50.16
GMW-18	03/21/2007	75.36	----	25.18	----	50.18
GMW-18	04/30/2007	75.36	----	25.72	----	49.64
GMW-18	08/28/2007	75.36	----	25.62	----	49.74
GMW-18	11/12/2007	75.36	----	26.29	----	49.07
GMW-18	02/05/2008	75.36	----	26.73	----	48.63
GMW-18	04/14/2008	75.36	----	25.91	----	49.45
GMW-18	10/14/2008	75.36	----	27.00	----	48.36
GMW-18	02/10/2009	75.36	----	26.50	----	48.86
GMW-18	04/20/2009	75.36	----	26.80	----	48.56
GMW-18	07/17/2009	75.36	----	27.41	----	47.95
GMW-18	10/19/2009	75.36	----	27.91	----	47.45
GMW-18	04/08/2010	75.36	----	27.30	----	48.06
GMW-18	04/12/2010	75.36	----	27.44	----	47.92
GMW-18	10/01/2010	75.36	----	27.80	----	47.56
GMW-18	01/08/2011	75.36	----	27.86	----	47.50
GMW-18	04/12/2012	75.36	----	28.54	----	46.82
GMW-18	04/20/2012	75.36	----	28.45	----	46.91
GMW-18	04/05/2013	75.36	29.66	30.33	0.67	NC
GMW-18	04/08/2013	75.36	29.64	30.21	0.57	NC
GMW-18	10/02/2013	75.36	30.24	32.17	1.93	NC
GMW-18	04/07/2014	75.36	30.95	33.15	2.20	NC

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Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-18	04/16/2014	75.36	30.92	33.08	2.16	NC
GMW-18	10/27/2014	75.36	----	31.13	----	44.23
GMW-18	04/20/2015	75.36	----	31.47	----	43.89
GMW-18	10/3/2016	75.36	33.27	35.34	2.07	NC
GMW-18	4/20/2017	75.36	----	32.81	----	42.55
GMW-18	9/26/2017	75.36	32.99	34.15	1.16	NC
GMW-19	05/28/1996	76.83	----	30.39	----	46.44
GMW-19	11/20/1996	76.83	----	30.39	----	46.44
GMW-19	07/01/1997	76.83	----	29.82	----	47.01
GMW-19	12/31/1997	76.83	----	30.08	----	46.75
GMW-19	05/01/1998	76.83	----	26.97	----	49.86
GMW-19	05/25/1999	76.83	----	28.00	----	48.83
GMW-19	05/15/2000	76.83	----	28.85	----	47.98
GMW-19	11/13/2000	76.83	----	28.21	----	48.62
GMW-19	05/07/2001	76.83	----	27.44	----	49.39
GMW-19	04/08/2002	76.83	----	29.08	----	47.75
GMW-19	09/19/2002	76.83	----	28.63	----	48.20
GMW-19	10/21/2002	76.83	----	29.22	----	47.61
GMW-19	04/07/2003	76.83	----	28.58	----	48.25
GMW-19	10/06/2003	76.83	----	28.45	----	48.38
GMW-19	04/19/2004	76.83	----	29.44	----	47.39
GMW-19	11/01/2004	76.83	----	27.92	----	48.91
GMW-19	02/28/2005	76.83	----	25.69	----	51.14
GMW-19	05/02/2005	76.83	----	24.47	----	52.36
GMW-19	03/06/2006	76.83	----	26.32	----	50.51
GMW-19	05/01/2006	76.83	----	26.24	----	50.59
GMW-19	08/26/2006	76.83	----	26.64	----	50.19
GMW-19	12/01/2006	76.83	----	26.92	----	49.91
GMW-19	03/21/2007	76.83	----	27.41	----	49.42
GMW-19	04/30/2007	76.83	----	27.48	----	49.35
GMW-19	08/28/2007	76.83	----	28.00	----	48.83
GMW-19	11/12/2007	76.83	----	28.04	----	48.79
GMW-19	02/05/2008	76.83	----	28.67	----	48.16
GMW-19	04/14/2008	76.83	----	27.64	----	49.19
GMW-19	07/24/2008	76.83	----	27.97	----	48.86
GMW-19	10/14/2008	76.83	----	28.76	----	48.07
GMW-19	02/10/2009	76.83	----	27.35	----	49.48
GMW-19	04/20/2009	76.83	----	28.71	----	48.12
GMW-19	07/17/2009	76.83	----	28.79	----	48.04
GMW-19	10/19/2009	76.83	----	29.54	----	47.29
GMW-19	04/08/2010	76.83	----	29.05	----	47.78
GMW-19	04/12/2010	76.83	----	29.16	----	47.67
GMW-19	10/06/2011	76.83	----	29.06	----	47.77
GMW-19	04/12/2012	76.83	----	30.26	----	46.57

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15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-19	04/18/2012	76.83	----	30.09	----	46.74
GMW-19	01/10/2013	76.83	----	31.56	----	45.27
GMW-19	04/03/2013	76.83	----	31.49	----	45.34
GMW-19	04/08/2013	76.83	----	31.60	----	45.23
GMW-19	10/02/2013	76.83	----	32.29	----	44.54
GMW-19	04/07/2014	76.83	----	33.00	----	43.83
GMW-19	04/14/2014	76.83	----	32.79	----	44.04
GMW-19	10/27/2014	76.83	----	33.20	----	43.63
GMW-19	04/20/2015	76.83	----	33.53	----	43.30
GMW-19	10/19/2015	76.83	----	34.33	----	42.50
GMW-19	4/21/2017	76.83	----	34.18	----	42.65
GMW-19	10/3/2017	76.83	----	35.17	----	41.66
GMW-20	05/28/1996	75.10	----	27.65	----	47.45
GMW-20	11/20/1996	75.10	----	28.53	----	46.57
GMW-20	07/01/1997	75.10	----	28.26	----	46.84
GMW-20	12/31/1997	75.10	----	28.23	----	46.87
GMW-20	05/01/1998	75.10	----	25.50	----	49.60
GMW-20	05/25/1999	75.10	----	26.25	----	48.85
GMW-20	05/15/2000	75.10	----	26.95	----	48.15
GMW-20	11/13/2000	75.10	----	27.56	----	47.54
GMW-20	05/07/2001	75.10	----	25.75	----	49.35
GMW-20	08/07/2001	75.10	25.55	26.67	1.12	NC
GMW-20	04/08/2002	75.10	----	26.77	----	48.33
GMW-20	10/21/2002	75.10	----	27.16	----	47.94
GMW-20	04/07/2003	75.10	----	26.62	----	48.48
GMW-20	10/06/2003	75.10	----	26.62	----	48.48
GMW-20	04/19/2004	75.10	----	27.88	----	47.22
GMW-20	11/01/2004	75.10	----	27.79	----	47.31
GMW-20	05/02/2005	75.10	----	22.20	----	52.90
GMW-20	05/01/2006	75.10	----	24.28	----	50.82
GMW-20	12/01/2006	75.10	----	25.17	----	49.93
GMW-20	04/30/2007	75.10	----	25.63	----	49.47
GMW-20	11/12/2007	75.10	----	26.08	----	49.02
GMW-20	04/14/2008	75.10	----	25.74	----	49.36
GMW-20	10/14/2008	75.10	----	26.89	----	48.21
GMW-20	10/01/2010	75.10	----	27.64	----	47.46
GMW-20	01/08/2011	75.10	----	27.81	----	47.29
GMW-20	04/12/2012	75.10	----	28.41	----	46.69
GMW-20	10/02/2013	75.10	----	30.54	----	44.56
GMW-20	04/09/2014	75.10	----	31.18	----	43.92
GMW-20	10/27/2014	75.10	----	31.43	----	43.67
GMW-20	04/20/2015	75.10	----	31.79	----	43.31
GMW-20	10/19/2015	75.10	----	32.55	----	42.55
GMW-20	04/11/2016	75.10	----	33.52	----	41.58

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-20	10/03/2016	75.10	----	34.19	----	40.91
GMW-20	4/18/2017	75.10	----	32.42	----	42.68
GMW-20	10/3/2017	75.10	----	34.20	----	40.90
GMW-21	05/28/1996	76.23	27.89	33.21	5.32	NC
GMW-21	11/20/1996	76.23	28.95	33.05	4.10	NC
GMW-21	07/01/1997	76.23	29.13	30.13	1.00	NC
GMW-21	04/08/2002	76.23	----	28.84	----	47.39
GMW-21	10/06/2003	76.23	27.90	28.17	0.27	NC
GMW-21	04/19/2004	76.23	29.14	29.57	0.43	NC
GMW-21	11/01/2004	76.23	28.68	28.91	0.23	NC
GMW-21	05/02/2005	76.23	23.79	24.56	0.77	NC
GMW-21	05/01/2006	76.23	25.21	26.99	1.78	NC
GMW-21	08/26/2006	76.23	25.54	25.79	0.25	NC
GMW-21	12/01/2006	76.23	25.99	27.83	1.84	NC
GMW-21	04/27/2007	76.23	----	26.41	----	49.82
GMW-21	11/09/2007	76.23	27.34	27.37	0.03	NC
GMW-21	02/05/2008	76.23	----	27.79	----	48.44
GMW-21	10/13/2008	76.23	----	28.18	----	48.05
GMW-21	02/09/2009	76.23	----	27.48	----	48.75
GMW-21	07/17/2009	76.23	----	28.40	----	47.83
GMW-21	04/07/2010	76.23	----	28.81	----	47.42
GMW-21	01/06/2011	76.23	----	26.85	----	49.38
GMW-21	04/06/2011	76.23	----	27.78	----	48.45
GMW-21	07/07/2011	76.23	----	27.95	----	48.28
GMW-21	10/06/2011	76.23	----	28.41	----	47.82
GMW-21	04/12/2012	76.23	----	29.48	----	46.75
GMW-21	01/10/2013	76.23	30.43	31.90	1.47	NC
GMW-21	04/02/2013	76.23	30.66	30.73	0.07	NC
GMW-21	04/08/2013	76.23	30.56	31.05	0.49	NC
GMW-21	10/01/2013	76.23	31.32	32.00	0.68	NC
GMW-21	04/07/2014	76.23	32.21	32.26	0.05	NC
GMW-21	04/14/2014	76.23	32.22	32.29	0.07	NC
GMW-21	10/27/2014	76.23	----	32.52	----	43.71
GMW-21	04/20/2015	76.23	----	32.82	----	43.41
GMW-21	10/20/2015	76.23	33.48	33.49	0.01	NC
GMW-21	04/11/2016	76.23	----	33.96	----	42.27
GMW-21	10/3/2016	76.23	----	34.38	----	41.85
GMW-21	4/19/2017	76.23	----	33.64	----	42.59
GMW-21	10/2/2017	76.23	32.52	33.02	0.50	NC
GMW-22	05/28/1996	74.17	29.75	34.31	4.56	NC
GMW-22	11/20/1996	74.17	29.78	33.02	3.24	NC
GMW-22	07/01/1997	74.17	30.91	34.32	3.41	NC
GMW-22	12/31/1997	74.17	29.98	33.75	3.77	NC
GMW-22	05/01/1998	74.17	19.13	26.55	7.42	NC

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-22	05/15/2000	74.17	26.45	30.67	4.22	NC
GMW-22	11/13/2000	74.17	28.67	31.82	3.15	NC
GMW-22	05/07/2001	74.17	27.88	32.30	4.42	NC
GMW-22	08/07/2001	74.17	25.78	29.76	3.98	NC
GMW-22	11/05/2001	74.17	25.95	31.05	5.10	NC
GMW-22	04/08/2002	74.17	26.55	26.59	0.04	NC
GMW-22	05/02/2005	74.17	23.09	26.46	3.37	NC
GMW-22	10/31/2005	74.17	----	27.80	----	46.37
GMW-22	05/01/2006	74.17	24.70	24.94	0.24	NC
GMW-22	12/04/2006	74.17	----	25.43	----	48.74
GMW-22	04/30/2007	74.17	----	25.79	----	48.38
GMW-22	11/12/2007	74.17	25.91	26.45	0.54	NC
GMW-22	08/12/2008	74.17	----	26.70	----	47.47
GMW-22	10/31/2008	74.17	27.04	28.25	1.21	NC
GMW-22	11/04/2008	74.17	----	26.97	----	47.20
GMW-22	04/21/2009	74.17	27.20	27.30	0.10	NC
GMW-22	10/04/2010	74.17	----	27.65	----	46.52
GMW-22	04/11/2011	74.17	----	26.45	----	47.72
GMW-22	10/10/2011	74.17	----	29.68	----	44.49
GMW-22	04/16/2012	74.17	----	31.15	----	43.02
GMW-22	10/15/2012	77.24	----	31.05	----	46.19
GMW-22	04/08/2013	77.24	----	31.92	----	45.32
GMW-22	10/07/2013	77.24	31.65	34.28	2.63	NC
GMW-22	04/14/2014	77.24	32.30	35.59	3.29	NC
GMW-22	10/27/2014	77.24	32.41	35.74	3.33	NC
GMW-22	04/20/2015	77.24	32.84	36.64	3.80	NC
GMW-22	10/20/2015	77.24	34.92	36.10	1.18	NC
GMW-22	04/11/2016	77.24	35.50	38.59	3.09	NC
GMW-22	10/3/2016	77.24	----	37.70	----	39.54
GMW-22	4/17/2017	77.24	----	34.47	----	42.77
GMW-22	10/2/2017	77.24	----	38.45	----	38.79
GMW-23	05/28/1996	74.85	27.12	28.07	0.95	NC
GMW-23	11/20/1996	74.85	26.66	28.42	1.76	NC
GMW-23	07/01/1997	74.85	28.99	30.34	1.35	NC
GMW-23	12/31/1997	74.85	28.04	28.92	0.88	NC
GMW-23	05/01/1998	74.85	25.43	25.44	0.01	NC
GMW-23	05/04/1999	74.85	26.65	27.09	0.44	NC
GMW-23	08/09/1999	74.85	26.39	28.52	2.13	NC
GMW-23	11/15/1999	74.85	26.79	29.60	2.81	NC
GMW-23	05/15/2000	74.85	26.90	29.87	2.97	NC
GMW-23	11/13/2000	74.85	27.00	31.18	4.18	NC
GMW-23	05/07/2001	74.85	28.62	28.63	0.01	NC
GMW-23	08/07/2001	74.85	25.54	26.07	0.53	NC
GMW-23	11/05/2001	74.85	25.85	26.32	0.47	NC

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-23	04/08/2002	74.85	26.40	26.81	0.41	NC
GMW-23	10/21/2002	74.85	28.07	28.94	0.87	NC
GMW-23	04/07/2003	74.85	26.67	26.70	0.03	NC
GMW-23	10/06/2003	74.85	26.35	27.32	0.97	NC
GMW-23	04/19/2004	74.85	26.94	26.95	0.01	NC
GMW-23	05/02/2005	74.85	-----	23.34	-----	51.51
GMW-23	10/31/2005	74.85	26.08	26.13	0.05	NC
GMW-23	05/01/2006	74.85	-----	23.99	-----	50.86
GMW-23	12/04/2006	74.85	-----	24.82	-----	50.03
GMW-23	04/30/2007	74.85	-----	24.98	-----	49.87
GMW-23	11/12/2007	74.85	-----	25.41	-----	49.44
GMW-23	04/14/2008	74.85	-----	25.62	-----	49.23
GMW-23	10/13/2008	74.85	-----	26.21	-----	48.64
GMW-23	04/20/2009	74.85	-----	26.29	-----	48.56
GMW-23	10/19/2009	74.85	-----	27.51	-----	47.34
GMW-23	05/24/2010	74.85	-----	27.32	-----	47.53
GMW-23	05/28/2010	74.85	-----	27.27	-----	47.58
GMW-23	10/04/2010	74.85	-----	27.31	-----	47.54
GMW-23	04/11/2011	74.85	-----	26.40	-----	48.45
GMW-23	10/10/2011	74.85	-----	26.57	-----	48.28
GMW-23	04/16/2012	74.85	-----	28.73	-----	46.12
GMW-23	10/15/2012	74.85	-----	28.45	-----	46.40
GMW-23	04/08/2013	74.85	-----	29.31	-----	45.54
GMW-23	10/07/2013	74.85	-----	30.27	-----	44.58
GMW-23	04/14/2014	74.85	-----	30.23	-----	44.62
GMW-23	10/27/2014	74.85	-----	31.08	-----	43.77
GMW-23	04/20/2015	74.85	-----	31.94	-----	42.91
GMW-23	10/19/2015	74.85	31.84	32.80	0.96	NC
GMW-23	04/11/2016	74.85	34.10	34.12	0.02	NC
GMW-23	10/3/2016	74.85	-----	36.15	-----	38.70
GMW-23	4/17/2017	74.85	31.91	33.40	1.49	NC
GMW-23	10/2/2017	74.85	-----	35.42	-----	39.43
GMW-24	08/07/2001	74.04	27.80	28.68	0.88	NC
GMW-24	05/02/2005	74.04	25.49	25.70	0.21	NC
GMW-24	10/31/2005	74.04	26.29	26.34	0.05	NC
GMW-24	05/01/2006	74.04	26.07	27.29	1.22	NC
GMW-24	12/04/2006	74.04	26.73	27.26	0.53	NC
GMW-24	04/30/2007	74.04	-----	27.07	-----	46.97
GMW-24	11/12/2007	74.04	27.46	27.50	0.04	NC
GMW-24	10/17/2008	74.04	29.90	30.88	0.98	NC
GMW-24	10/21/2008	74.04	28.30	29.64	1.34	NC
GMW-24	04/21/2009	74.04	-----	29.91	-----	44.13
GMW-24	10/04/2010	74.04	-----	29.50	-----	44.54
GMW-24	04/11/2011	74.04	-----	28.21	-----	45.83

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-24	10/10/2011	74.04	----	28.78	----	45.26
GMW-24	04/16/2012	74.04	30.31	30.49	0.18	NC
GMW-24	06/14/2013	77.48	32.40	33.35	0.95	NC
GMW-24	10/07/2013	77.48	31.61	35.42	3.81	NC
GMW-24	04/14/2014	77.48	32.01	37.74	5.73	NC
GMW-24	07/03/2014	77.48	33.04	39.60	6.56	NC
GMW-24	10/27/2014	77.48	32.91	36.82	3.91	NC
GMW-24	04/20/2015	77.48	33.82	36.29	2.47	NC
GMW-24	10/20/2015	77.48	----	35.44	----	42.04
GMW-24	04/11/2016	77.48	----	37.10	----	40.38
GMW-24	10/3/2016	77.48	----	39.31	----	38.17
GMW-24	4/17/2017	77.48	35.09	35.64	0.55	NC
GMW-24	10/2/2017	77.48	----	39.33	----	38.15
GMW-25	05/28/1996	74.29	27.88	32.71	4.83	NC
GMW-25	11/20/1996	74.29	27.75	31.91	4.16	NC
GMW-25	07/01/1997	74.29	28.37	34.58	6.21	NC
GMW-25	12/31/1997	74.29	27.86	33.59	5.73	NC
GMW-25	05/01/1998	74.29	16.76	24.44	7.68	NC
GMW-25	05/04/1999	74.29	26.58	30.40	3.82	NC
GMW-25	08/09/1999	74.29	26.73	29.99	3.26	NC
GMW-25	11/15/1999	74.29	27.75	28.95	1.20	NC
GMW-25	05/15/2000	74.29	27.39	28.17	0.78	NC
GMW-25	11/13/2000	74.29	27.97	29.52	1.55	NC
GMW-25	05/07/2001	74.29	26.27	28.62	2.35	NC
GMW-25	08/07/2001	74.29	25.73	28.14	2.41	NC
GMW-25	11/05/2001	74.29	26.07	28.40	2.33	NC
GMW-25	04/08/2002	74.29	27.00	27.07	0.07	NC
GMW-25	10/21/2002	74.29	29.41	29.45	0.04	NC
GMW-25	05/02/2005	74.29	----	24.78	----	49.51
GMW-25	10/31/2005	74.29	25.41	25.47	0.06	NC
GMW-25	05/01/2006	74.29	----	25.87	----	48.42
GMW-25	12/04/2006	74.29	----	26.65	----	47.64
GMW-25	04/30/2007	74.29	----	26.60	----	47.69
GMW-25	11/12/2007	74.29	27.25	27.30	0.05	NC
GMW-25	08/12/2008	74.29	----	27.81	----	46.48
GMW-25	10/17/2008	74.29	----	28.26	----	46.03
GMW-25	04/21/2009	74.29	----	28.35	----	45.94
GMW-25	10/19/2009	74.29	----	30.28	----	44.01
GMW-25	10/04/2010	74.29	----	29.25	----	45.04
GMW-25	04/11/2011	74.29	----	26.21	----	48.08
GMW-25	10/10/2011	74.29	----	30.02	----	44.27
GMW-25	04/16/2012	74.29	----	31.30	----	42.99
GMW-25	10/15/2012	78.14	----	31.88	----	46.26
GMW-25	04/08/2013	78.14	----	32.11	----	46.03

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Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-25	10/07/2013	78.14	33.10	33.23	0.13	NC
GMW-25	04/14/2014	78.14	33.00	37.40	4.40	NC
GMW-25	10/27/2014	78.14	33.95	34.78	0.83	NC
GMW-25	04/20/2015	78.14	34.47	35.19	0.72	NC
GMW-25	10/20/2015	78.14	35.38	35.40	0.02	NC
GMW-25	04/12/2016	78.14	----	37.15	----	40.99
GMW-25	10/3/2016	78.14	----	38.70	----	39.44
GMW-25	4/17/2017	78.14	----	35.23	----	42.91
GMW-25	10/2/2017	78.14	----	39.22	----	38.92
GMW-26	05/28/1996	74.45	----	27.20	----	47.25
GMW-26	11/20/1996	74.45	----	27.82	----	46.63
GMW-26	07/01/1997	74.45	----	29.03	----	45.42
GMW-26	12/31/1997	74.45	----	29.14	----	45.31
GMW-26	05/01/1998	74.45	----	25.45	----	49.00
GMW-26	05/04/1999	74.45	----	26.52	----	47.93
GMW-26	08/09/1999	74.45	----	26.55	----	47.90
GMW-26	11/15/1999	74.45	----	25.46	----	48.99
GMW-26	05/15/2000	74.45	----	26.54	----	47.91
GMW-26	11/13/2000	74.45	----	27.67	----	46.78
GMW-26	05/07/2001	74.45	----	25.84	----	48.61
GMW-26	11/05/2001	74.45	----	25.73	----	48.72
GMW-26	04/08/2002	74.45	----	26.40	----	48.05
GMW-26	10/21/2002	74.45	----	26.82	----	47.63
GMW-26	04/07/2003	74.45	----	25.28	----	49.17
GMW-26	07/07/2003	74.52	----	26.53	----	47.99
GMW-26	10/06/2003	74.52	----	26.30	----	48.22
GMW-26	01/11/2004	74.52	----	27.87	----	46.65
GMW-26	01/20/2004	74.52	----	26.83	----	47.69
GMW-26	04/19/2004	74.52	----	27.91	----	46.61
GMW-26	04/27/2004	74.52	----	27.32	----	47.20
GMW-26	06/07/2004	74.52	----	27.95	----	46.57
GMW-26	07/08/2004	74.52	----	27.72	----	46.80
GMW-26	05/02/2005	74.52	----	23.05	----	51.47
GMW-26	10/31/2005	74.52	----	23.62	----	50.90
GMW-26	05/22/2006	74.52	----	24.14	----	50.38
GMW-26	12/04/2006	74.52	----	24.69	----	49.83
GMW-26	04/30/2007	74.52	----	24.68	----	49.84
GMW-26	11/12/2007	74.52	----	25.06	----	49.46
GMW-26	04/14/2008	74.52	----	25.39	----	49.13
GMW-26	10/13/2008	74.52	----	25.92	----	48.60
GMW-26	04/20/2009	74.52	----	26.12	----	48.40
GMW-26	10/19/2009	74.52	----	26.96	----	47.56
GMW-26	05/24/2010	74.52	----	27.70	----	46.82
GMW-26	05/28/2010	74.52	----	27.47	----	47.05

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-26	10/04/2010	74.52	----	36.51	----	38.01
GMW-26	04/11/2011	74.52	----	27.22	----	47.30
GMW-26	10/10/2011	74.52	----	26.38	----	48.14
GMW-26	04/16/2012	74.52	----	27.86	----	46.66
GMW-26	10/15/2012	74.52	----	28.40	----	46.12
GMW-26	04/08/2013	74.52	----	28.98	----	45.54
GMW-26	10/07/2013	74.52	----	29.94	----	44.58
GMW-26	04/14/2014	74.52	----	30.28	----	44.24
GMW-26	10/27/2014	74.52	----	30.68	----	43.84
GMW-26	04/20/2015	74.52	----	31.18	----	43.34
GMW-26	10/19/2015	74.52	----	31.73	----	42.79
GMW-26	04/11/2016	74.52	----	35.55	----	38.97
GMW-26	10/3/2016	74.52	----	35.12	----	39.40
GMW-26	4/17/2017	74.52	----	31.90	----	42.62
GMW-26	10/2/2017	74.52	----	35.00	----	39.52
GMW-27	05/28/1996	74.39	----	27.00	----	47.39
GMW-27	12/31/1997	74.39	27.76	28.43	0.67	NC
GMW-27	05/01/1998	74.39	----	25.07	----	49.32
GMW-27	05/07/1999	74.39	----	26.44	----	47.95
GMW-27	08/09/1999	74.39	----	26.46	----	47.93
GMW-27	11/15/1999	74.39	----	26.71	----	47.68
GMW-27	05/15/2000	74.39	----	26.44	----	47.95
GMW-27	11/13/2000	74.39	----	27.52	----	46.87
GMW-27	05/07/2001	74.39	----	25.67	----	48.72
GMW-27	08/07/2001	74.39	----	25.25	----	49.14
GMW-27	11/05/2001	74.39	----	25.65	----	48.74
GMW-27	04/08/2002	74.39	----	28.79	----	45.60
GMW-27	10/21/2002	74.39	----	26.72	----	47.67
GMW-27	04/07/2003	74.39	----	26.13	----	48.26
GMW-27	10/06/2003	74.39	----	26.32	----	48.07
GMW-27	01/11/2004	74.41	----	27.82	----	46.59
GMW-27	01/27/2004	74.39	----	26.52	----	47.87
GMW-27	04/19/2004	74.41	----	27.62	----	46.79
GMW-27	04/27/2004	74.41	----	27.00	----	47.41
GMW-27	06/07/2004	74.41	----	27.70	----	46.71
GMW-27	07/08/2004	74.41	----	27.46	----	46.95
GMW-27	05/02/2005	74.41	----	24.01	----	50.40
GMW-27	10/31/2005	74.41	----	23.03	----	51.38
GMW-27	05/09/2006	74.41	----	23.51	----	50.90
GMW-27	12/04/2006	74.41	----	24.45	----	49.96
GMW-27	04/30/2007	74.41	----	24.52	----	49.89
GMW-27	11/12/2007	74.41	----	24.90	----	49.51
GMW-27	04/14/2008	74.41	----	25.21	----	49.20
GMW-27	08/11/2008	74.41	----	29.68	----	44.73

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-27	10/13/2008	74.41	----	25.81	----	48.60
GMW-27	11/21/2008	74.41	----	26.20	----	48.21
GMW-27	04/20/2009	74.41	----	26.04	----	48.37
GMW-27	10/19/2009	74.41	----	27.39	----	47.02
GMW-27	05/24/2010	74.41	----	26.90	----	47.51
GMW-27	05/28/2010	74.41	----	26.96	----	47.45
GMW-27	10/04/2010	74.41	----	26.95	----	47.46
GMW-27	01/10/2011	74.41	----	27.97	----	46.44
GMW-27	04/11/2011	74.41	----	26.33	----	48.08
GMW-27	10/10/2011	74.41	----	26.17	----	48.24
GMW-27	01/09/2012	74.41	----	26.84	----	47.57
GMW-27	04/16/2012	74.41	----	27.85	----	46.56
GMW-27	07/09/2012	74.41	----	27.94	----	46.47
GMW-27	10/15/2012	74.41	----	29.05	----	45.36
GMW-27	01/14/2013	74.41	----	29.07	----	45.34
GMW-27	04/08/2013	74.41	----	28.96	----	45.45
GMW-27	10/07/2013	74.41	----	29.45	----	44.96
GMW-27	04/14/2014	74.41	----	30.19	----	44.22
GMW-27	10/27/2014	74.41	----	30.51	----	43.90
GMW-27	Well decommissioned in December 2014 prior to remedial excavation					
GMW-27R	10/2/2017	77.15	----	37.68	----	39.47
GMW-28	05/28/1996	74.62	----	27.22	----	47.40
GMW-28	11/20/1996	74.62	----	27.86	----	46.76
GMW-28	07/01/1997	74.62	----	29.03	----	45.59
GMW-28	12/31/1997	74.62	28.00	28.65	0.65	NC
GMW-28	05/01/1998	74.62	24.77	25.42	0.65	NC
GMW-28	08/09/1999	74.62	----	26.64	----	47.98
GMW-28	11/15/1999	74.62	----	26.80	----	47.82
GMW-28	11/13/2000	74.62	----	27.50	----	47.12
GMW-28	08/07/2001	74.62	----	25.47	----	49.15
GMW-28	11/05/2001	74.62	----	25.85	----	48.77
GMW-28	04/08/2002	74.62	----	26.21	----	48.41
GMW-28	10/21/2002	74.62	----	26.96	----	47.66
GMW-28	04/07/2003	74.62	----	26.35	----	48.27
GMW-28	07/07/2003	74.68	----	26.43	----	48.25
GMW-28	10/06/2003	74.62	----	26.31	----	48.31
GMW-28	01/11/2004	74.68	----	27.68	----	47.00
GMW-28	01/20/2004	74.68	----	26.85	----	47.83
GMW-28	04/19/2004	74.68	----	27.58	----	47.10
GMW-28	04/27/2004	74.68	----	27.13	----	47.55
GMW-28	06/07/2004	74.68	----	27.70	----	46.98
GMW-28	07/08/2004	74.68	----	27.59	----	47.09
GMW-28	05/02/2005	74.68	----	23.71	----	50.97
GMW-28	10/31/2005	74.68	----	25.16	----	49.52

APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-28	11/12/2007	74.62	----	25.16	----	49.46
GMW-28	04/14/2008	74.62	----	25.50	----	49.12
GMW-28	11/04/2008	74.62	----	26.61	----	48.01
GMW-28	04/20/2009	74.68	----	26.18	----	48.50
GMW-28	10/19/2009	74.68	----	27.21	----	47.47
GMW-28	05/24/2010	74.68	----	27.11	----	47.57
GMW-28	05/28/2010	74.68	----	27.12	----	47.56
GMW-28	10/04/2010	74.68	----	27.11	----	47.57
GMW-28	04/11/2011	74.68	----	29.32	----	45.36
GMW-28	10/10/2011	74.68	----	26.41	----	48.27
GMW-28	04/16/2012	74.68	----	28.32	----	46.36
GMW-28	10/15/2012	74.68	----	28.50	----	46.18
GMW-28	04/08/2013	74.68	----	28.99	----	45.69
GMW-28	10/07/2013	74.68	----	29.46	----	45.22
GMW-28	04/14/2014	74.68	----	30.23	----	44.45
GMW-28	10/27/2014	74.68	----	31.16	----	43.52
GMW-28	10/27/2014	74.68	----	30.60	----	44.08
GMW-28	04/20/2015	74.68	----	31.23	----	43.45
GMW-28	10/19/2015	74.68	----	32.00	----	42.68
GMW-28	04/11/2016	74.68	----	34.10	----	40.58
GMW-28	10/3/2016	74.68	----	35.81	----	38.87
GMW-28	4/17/2017	74.68	----	32.10	----	42.58
GMW-28	10/2/2017	74.68	----	35.78	----	38.90
GMW-29	11/20/1996	74.86	----	30.60	----	44.26
GMW-29	07/01/1997	74.86	----	29.58	----	45.28
GMW-29	12/31/1997	74.86	30.91	31.70	0.79	NC
GMW-29	05/01/1998	74.86	27.81	28.43	0.62	NC
GMW-29	05/04/1999	74.86	----	31.35	----	43.51
GMW-29	08/09/1999	74.86	----	28.90	----	45.96
GMW-29	11/13/2000	74.86	----	31.30	----	43.56
GMW-29	11/13/2000	74.86	----	28.51	----	46.35
GMW-29	05/07/2001	74.86	----	28.64	----	46.22
GMW-29	05/10/2001	74.86	----	28.43	----	46.43
GMW-29	08/07/2001	74.86	----	28.25	----	46.61
GMW-29	11/05/2001	74.86	----	28.46	----	46.40
GMW-29	04/08/2002	74.86	----	26.54	----	48.32
GMW-29	10/21/2002	74.86	----	26.98	----	47.88
GMW-29	04/07/2003	74.86	----	29.20	----	45.66
GMW-29	07/07/2003	77.57	----	29.09	----	48.48
GMW-29	10/06/2003	74.86	----	29.00	----	45.86
GMW-29	01/11/2004	77.57	----	27.47	----	50.10
GMW-29	01/20/2004	77.57	----	29.46	----	48.11
GMW-29	04/19/2004	77.57	----	29.94	----	47.63
GMW-29	04/27/2004	77.57	----	29.80	----	47.77

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-29	06/07/2004	77.57	----	29.93	----	47.64
GMW-29	07/08/2004	77.57	----	30.06	----	47.51
GMW-29	05/02/2005	77.57	----	26.63	----	50.94
GMW-29	10/31/2005	77.57	----	25.42	----	52.15
GMW-29	05/01/2006	77.57	----	26.64	----	50.93
GMW-29	12/04/2006	77.57	----	27.34	----	50.23
GMW-29	04/30/2007	77.57	----	27.48	----	50.09
GMW-29	11/12/2007	77.57	----	27.95	----	49.62
GMW-29	04/14/2008	77.57	----	28.31	----	49.26
GMW-29	04/14/2008	77.57	----	29.46	----	48.11
GMW-29	10/13/2008	77.57	----	28.72	----	48.85
GMW-29	04/20/2009	77.57	----	28.86	----	48.71
GMW-29	10/19/2009	77.57	----	29.70	----	47.87
GMW-29	05/24/2010	77.57	----	29.92	----	47.65
GMW-29	05/28/2010	77.57	----	29.88	----	47.69
GMW-29	10/04/2010	77.57	----	27.30	----	50.27
GMW-29	04/11/2011	77.57	----	29.52	----	48.05
GMW-29	10/10/2011	77.57	----	26.50	----	51.07
GMW-29	04/16/2012	77.57	----	28.14	----	49.43
GMW-29	10/15/2012	77.57	----	28.41	----	49.16
GMW-29	04/08/2013	77.57	----	28.95	----	48.62
GMW-29	10/07/2013	77.57	----	30.30	----	47.27
GMW-29	04/14/2014	77.57	----	31.62	----	45.95
GMW-29	10/27/2014	77.57	----	32.42	----	45.15
GMW-29	04/20/2015	77.57	----	32.62	----	44.95
GMW-29	10/27/2015	77.57	31.86	35.37	3.51	NC
GMW-29	04/11/2016	77.57	33.55	34.95	1.40	NC
GMW-29	10/3/2016	77.57	35.75	36.00	0.25	NC
GMW-29	4/17/2017	77.57	31.74	33.80	2.06	NC
GMW-29	10/2/2017	77.57	35.87	36.05	0.18	NC
GMW-30	05/28/1996	74.91	26.69	29.41	2.72	NC
GMW-30	11/20/1996	74.91	27.51	29.60	2.09	NC
GMW-30	07/01/1997	74.91	28.96	30.32	1.36	NC
GMW-30	12/31/1997	74.91	27.80	29.74	1.94	NC
GMW-30	05/01/1998	74.91	19.11	24.27	5.16	NC
GMW-30	05/04/1999	74.91	25.45	31.56	6.11	NC
GMW-30	08/09/1999	74.91	25.76	30.10	4.34	NC
GMW-30	11/15/1999	74.91	27.20	27.57	0.37	NC
GMW-30	05/15/2000	74.91	27.27	27.60	0.33	NC
GMW-30	11/13/2000	74.91	26.55	26.59	0.04	NC
GMW-30	05/07/2001	74.91	----	28.47	----	46.44
GMW-30	08/07/2001	74.91	----	25.60	----	49.31
GMW-30	11/05/2001	74.91	25.96	26.00	0.04	NC
GMW-30	04/08/2002	74.91	26.35	26.53	0.18	NC

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Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-30	10/21/2002	74.91	27.32	27.51	0.19	NC
GMW-30	04/07/2003	74.91	26.75	26.77	0.02	NC
GMW-30	10/06/2003	74.91	26.45	26.51	0.06	NC
GMW-30	01/11/2004	74.91	27.91	27.97	0.06	NC
GMW-30	04/19/2004	74.91	27.49	27.60	0.11	NC
GMW-30	05/10/2005	74.91	-----	23.63	-----	51.28
GMW-30	10/31/2005	74.91	-----	26.71	-----	48.20
GMW-30	05/01/2006	74.91	-----	23.91	-----	51.00
GMW-30	12/04/2006	74.91	-----	24.73	-----	50.18
GMW-30	04/30/2007	74.91	-----	24.99	-----	49.92
GMW-30	08/28/2007	74.91	-----	24.65	-----	50.26
GMW-30	11/12/2007	74.91	-----	25.38	-----	49.53
GMW-30	04/14/2008	74.91	-----	25.65	-----	49.26
GMW-30	11/04/2008	74.91	-----	26.52	-----	48.39
GMW-30	04/20/2009	74.91	-----	26.30	-----	48.61
GMW-30	10/19/2009	74.91	-----	27.40	-----	47.51
GMW-30	05/24/2010	74.91	-----	27.32	-----	47.59
GMW-30	05/28/2010	74.91	-----	27.18	-----	47.73
GMW-30	10/04/2010	74.91	-----	27.30	-----	47.61
GMW-30	01/10/2011	74.91	-----	28.61	-----	46.30
GMW-30	04/11/2011	74.91	-----	26.43	-----	48.48
GMW-30	10/10/2011	74.91	-----	26.55	-----	48.36
GMW-30	01/09/2012	74.91	-----	27.12	-----	47.79
GMW-30	04/16/2012	74.91	-----	29.09	-----	45.82
GMW-30	07/09/2012	74.91	-----	28.43	-----	46.48
GMW-30	10/15/2012	74.91	-----	28.40	-----	46.51
GMW-30	01/14/2013	74.91	-----	29.59	-----	45.32
GMW-30	04/08/2013	74.91	-----	29.31	-----	45.60
GMW-30	10/07/2013	74.91	-----	30.32	-----	44.59
GMW-30	04/14/2014	74.91	-----	30.60	-----	44.31
GMW-30	10/27/2014	74.91	30.12	33.74	3.62	NC
GMW-30	04/20/2015	74.91	31.01	32.77	1.76	NC
GMW-30	10/19/2015	74.91	31.80	32.92	1.12	NC
GMW-30	04/11/2016	74.91	-----	34.01	-----	40.90
GMW-30	10/3/2016	74.91	-----	36.30	-----	38.61
GMW-30	4/17/2017	74.91	32.16	32.53	0.37	NC
GMW-30	10/2/2017	74.91	-----	36.21	-----	38.70
GMW-31	05/28/1996	76.50	-----	29.31	-----	47.19
GMW-31	11/20/1996	76.50	-----	30.18	-----	46.32
GMW-31	07/01/1997	76.50	-----	30.11	-----	46.39
GMW-31	12/31/1997	76.50	-----	30.03	-----	46.47
GMW-31	05/01/1998	76.50	-----	27.26	-----	49.24
GMW-31	05/25/1999	76.50	-----	28.07	-----	48.43
GMW-31	05/15/2000	76.50	-----	28.70	-----	47.80

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Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-31	11/13/2000	76.50	----	28.33	----	48.17
GMW-31	05/07/2001	76.50	----	27.48	----	49.02
GMW-31	04/08/2002	76.50	----	28.94	----	47.56
GMW-31	10/21/2002	76.50	----	28.72	----	47.78
GMW-31	04/07/2003	76.50	----	28.44	----	48.06
GMW-31	10/06/2003	76.50	----	28.48	----	48.02
GMW-31	04/19/2004	76.50	----	29.99	----	46.51
GMW-31	11/01/2004	76.50	----	29.16	----	47.34
GMW-31	05/02/2005	76.50	----	24.57	----	51.93
GMW-31	05/01/2006	76.50	----	26.10	----	50.40
GMW-31	08/26/2006	76.50	----	26.49	----	50.01
GMW-31	12/01/2006	76.50	----	26.84	----	49.66
GMW-31	04/30/2007	76.50	----	27.34	----	49.16
GMW-31	11/12/2007	76.50	----	27.91	----	48.59
GMW-31	04/11/2008	76.50	----	27.57	----	48.93
GMW-31	07/24/2008	76.50	----	27.91	----	48.59
GMW-31	10/14/2008	76.50	----	28.57	----	47.93
GMW-31	02/10/2009	76.50	----	28.87	----	47.63
GMW-31	04/20/2009	76.50	----	28.41	----	48.09
GMW-31	10/19/2009	76.50	----	29.28	----	47.22
GMW-31	04/08/2010	76.50	----	28.91	----	47.59
GMW-31	04/12/2010	76.50	----	28.71	----	47.79
GMW-31	01/07/2011	76.50	----	29.40	----	47.10
GMW-31	04/08/2011	76.50	----	28.13	----	48.37
GMW-31	07/08/2011	76.50	----	28.34	----	48.16
GMW-31	10/06/2011	76.50	----	28.87	----	47.63
GMW-31	04/12/2012	76.50	----	30.04	----	46.46
GMW-31	04/16/2012	76.50	----	29.81	----	46.69
GMW-31	01/11/2013	76.50	----	31.35	----	45.15
GMW-31	04/03/2013	76.50	----	31.26	----	45.24
GMW-31	04/08/2013	76.50	----	31.08	----	45.42
GMW-31	10/02/2013	76.50	----	31.98	----	44.52
GMW-31	04/07/2014	76.50	----	32.76	----	43.74
GMW-31	04/14/2014	76.50	----	32.36	----	44.14
GMW-31	10/27/2014	76.50	----	32.88	----	43.62
GMW-31	04/20/2015	76.50	----	33.21	----	43.29
GMW-31	4/17/2017	76.50	----	32.03	----	44.47
GMW-31	10/3/2017	76.50	----	33.18	----	43.32
GMW-32	05/28/1996	74.62	----	26.78	----	47.84
GMW-32	11/20/1996	74.62	----	27.79	----	46.83
GMW-32	07/01/1997	74.62	----	26.99	----	47.63
GMW-32	12/31/1997	74.62	----	27.38	----	47.24
GMW-32	05/01/1998	74.62	----	24.23	----	50.39
GMW-32	05/25/1999	74.62	----	25.52	----	49.10

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Defense Fuel Support Point Norwalk
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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-32	05/15/2000	74.62	----	26.16	----	48.46
GMW-32	11/13/2000	74.62	----	26.73	----	47.89
GMW-32	05/07/2001	74.62	----	24.93	----	49.69
GMW-32	02/01/2002	74.62	----	25.35	----	49.27
GMW-32	04/08/2002	74.62	----	26.52	----	48.10
GMW-32	10/21/2002	74.62	----	27.09	----	47.53
GMW-32	04/07/2003	74.62	----	25.15	----	49.47
GMW-32	10/06/2003	74.62	----	25.89	----	48.73
GMW-32	04/19/2004	74.62	----	26.78	----	47.84
GMW-32	11/01/2004	74.62	----	27.30	----	47.32
GMW-32	05/02/2005	74.62	----	20.42	----	54.20
GMW-32	03/06/2006	74.62	----	23.10	----	51.52
GMW-32	05/01/2006	74.62	----	22.98	----	51.64
GMW-32	08/26/2006	74.62	----	23.64	----	50.98
GMW-32	12/01/2006	74.62	----	24.50	----	50.12
GMW-32	03/21/2007	74.62	----	24.51	----	50.11
GMW-32	04/30/2007	74.62	----	25.03	----	49.59
GMW-32	08/28/2007	74.62	----	24.78	----	49.84
GMW-32	11/12/2007	74.62	----	25.62	----	49.00
GMW-32	02/05/2008	74.62	----	25.93	----	48.69
GMW-32	04/14/2008	74.62	----	25.11	----	49.51
GMW-32	07/24/2008	74.62	----	25.52	----	49.10
GMW-32	10/14/2008	74.62	----	26.35	----	48.27
GMW-32	02/10/2009	74.62	----	26.15	----	48.47
GMW-32	04/20/2009	74.62	----	27.28	----	47.34
GMW-32	07/16/2009	74.62	----	26.71	----	47.91
GMW-32	10/19/2009	74.62	----	27.24	----	47.38
GMW-32	04/08/2010	74.62	----	26.61	----	48.01
GMW-32	04/12/2010	74.62	----	26.82	----	47.80
GMW-32	04/07/2011	74.62	----	25.72	----	48.90
GMW-32	10/06/2011	74.62	----	26.71	----	47.91
GMW-32	04/12/2012	74.62	----	27.94	----	46.68
GMW-32	04/19/2012	74.62	----	27.83	----	46.79
GMW-32	01/10/2013	74.62	----	29.31	----	45.31
GMW-32	04/03/2013	74.62	----	29.34	----	45.28
GMW-32	04/08/2013	74.62	----	29.32	----	45.30
GMW-32	10/02/2013	74.62	----	29.98	----	44.64
GMW-32	04/09/2014	74.62	----	30.60	----	44.02
GMW-32	04/16/2014	74.62	----	30.30	----	44.32
GMW-32	10/27/2014	74.62	----	30.72	----	43.90
GMW-32	Well decommissioned in December 2014 prior to remedial excavation					
GMW-32R	10/3/2017	76.93	dirt in well to 28.20 feet bgs			
GMW-33	05/28/1996	74.88	----	27.02	----	47.86
GMW-33	11/20/1996	74.88	----	27.97	----	46.91

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)	
GMW-33	07/01/1997	74.88	----	26.84	----	48.04	
GMW-33	12/31/1997	74.88	----	27.52	----	47.36	
GMW-33	05/01/1998	74.88	----	24.08	----	50.80	
GMW-33	05/25/1999	74.88	----	25.62	----	49.26	
GMW-33	05/15/2000	74.88	----	26.50	----	48.38	
GMW-33	11/13/2000	74.88	----	26.90	----	47.98	
GMW-33	05/07/2001	74.88	----	25.18	----	49.70	
GMW-33	02/01/2002	74.88	----	25.32	----	49.56	
GMW-33	04/08/2002	74.88	----	26.55	----	48.33	
GMW-33	10/21/2002	74.88	----	27.15	----	47.73	
GMW-33	04/07/2003	74.88	----	26.22	----	48.66	
GMW-33	10/06/2003	74.88	----	26.06	----	48.82	
GMW-33	04/19/2004	74.88	----	28.89	----	45.99	
GMW-33	11/01/2004	74.88	----	27.47	----	47.41	
GMW-33	05/02/2005	74.88	----	21.50	----	53.38	
GMW-33	03/06/2006	74.88	----	23.94	----	50.94	
GMW-33	05/01/2006	74.88	----	23.90	----	50.98	
GMW-33	08/26/2006	74.88	----	24.38	----	50.50	
GMW-33	12/01/2006	74.88	----	24.90	----	49.98	
GMW-33	03/21/2007	74.88	----	25.61	----	49.27	
GMW-33	04/30/2007	74.88	----	25.44	----	49.44	
GMW-33	08/28/2007	74.88	----	25.94	----	48.94	
GMW-33	11/12/2007	74.88	----	25.97	----	48.91	
GMW-33	02/05/2008	74.88	----	26.87	----	48.01	
GMW-33	04/11/2008	74.88	----	25.58	----	49.30	
GMW-33	07/24/2008	74.88	----	26.11	----	48.77	
GMW-33	10/13/2008	74.88	----	26.93	----	47.95	
GMW-33	02/10/2009	74.88	----	27.05	----	47.83	
GMW-33	07/16/2009	74.88	----	27.41	----	47.47	
GMW-33	04/07/2010	74.88	----	26.82	----	48.06	
GMW-33	10/01/2010	74.88	----	27.43	----	47.45	
GMW-33	4/18/2017	74.88	----	DRY	----	NC	
GMW-33	10/3/2017	74.88	dirt in well to 16.44 feet bgs				
GMW-34	05/28/1996	75.25	26.83	30.96	4.13	NC	
GMW-34	11/20/1996	75.25	27.69	31.87	4.18	NC	
GMW-34	07/01/1997	75.25	28.10	32.06	3.96	NC	
GMW-34	12/31/1997	75.25	27.88	31.81	3.93	NC	
GMW-34	05/01/1998	75.25	25.66	25.92	0.26	NC	
GMW-34	05/25/1999	75.25	----	26.80	----	48.45	
GMW-34	05/15/2000	75.25	----	27.46	----	47.79	
GMW-34	11/13/2000	75.25	----	27.05	----	48.20	
GMW-34	05/07/2001	75.25	----	26.12	----	49.13	
GMW-34	04/08/2002	75.25	----	27.26	----	47.99	
GMW-34	10/21/2002	75.25	----	27.64	----	47.61	

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-34	04/07/2003	75.25	----	26.98	----	48.27
GMW-34	10/06/2003	75.25	----	27.03	----	48.22
GMW-34	04/19/2004	75.25	----	28.53	----	46.72
GMW-34	11/01/2004	75.25	----	28.26	----	46.99
GMW-34	05/02/2005	75.25	----	22.79	----	52.46
GMW-34	05/01/2006	75.25	----	24.50	----	50.75
GMW-34	12/01/2006	75.25	----	25.56	----	49.69
GMW-34	04/30/2007	75.25	----	25.88	----	49.37
GMW-34	10/01/2010	75.25	----	27.85	----	47.40
GMW-35	05/28/1996	76.12	27.54	32.06	4.52	NC
GMW-35	11/20/1996	76.12	28.69	33.01	4.32	NC
GMW-35	07/01/1997	76.12	27.75	31.38	3.63	NC
GMW-35	12/31/1997	76.12	28.10	32.18	4.08	NC
GMW-35	05/01/1998	76.12	24.97	25.28	0.31	NC
GMW-35	05/25/1999	76.12	26.93	27.65	0.72	NC
GMW-35	05/15/2000	76.12	27.67	28.26	0.59	NC
GMW-35	11/13/2000	76.12	----	29.38	----	46.74
GMW-35	05/07/2001	76.12	----	26.80	----	49.32
GMW-35	04/08/2002	76.12	----	28.39	----	47.73
GMW-35	09/19/2002	76.12	28.56	28.95	0.39	NC
GMW-35	10/21/2002	76.12	----	29.03	----	47.09
GMW-35	04/07/2003	76.12	28.10	28.15	0.05	NC
GMW-35	10/06/2003	76.12	----	27.58	----	48.54
GMW-35	04/19/2004	76.12	28.46	28.49	0.03	NC
GMW-35	11/01/2004	76.12	28.71	28.78	0.07	NC
GMW-35	02/28/2005	76.12	----	24.73	----	51.39
GMW-35	05/02/2005	76.12	----	23.26	----	52.86
GMW-35	03/06/2006	76.12	----	25.14	----	50.98
GMW-35	05/01/2006	76.12	----	25.37	----	50.75
GMW-35	08/26/2006	76.12	----	25.83	----	50.29
GMW-35	12/01/2006	76.12	----	26.27	----	49.85
GMW-35	03/21/2007	76.12	----	26.72	----	49.40
GMW-35	04/30/2007	76.12	----	26.74	----	49.38
GMW-35	08/28/2007	76.12	----	27.02	----	49.10
GMW-35	11/12/2007	76.12	----	27.32	----	48.80
GMW-35	02/05/2008	76.12	----	27.98	----	48.14
GMW-35	04/14/2008	76.12	----	26.85	----	49.27
GMW-35	10/13/2008	76.12	28.28	28.31	0.03	NC
GMW-35	02/10/2009	76.12	----	27.70	----	48.42
GMW-35	04/20/2009	76.12	----	28.94	----	47.18
GMW-35	07/17/2009	76.12	----	28.12	----	48.00
GMW-35	04/08/2010	76.12	----	27.07	----	49.05
GMW-35	04/12/2010	76.12	----	28.41	----	47.71
GMW-35	10/01/2010	76.12	----	28.73	----	47.39

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-35	01/08/2011	76.12	29.03	29.04	0.01	NC
GMW-35	04/12/2012	76.12	29.44	29.51	0.07	NC
GMW-35	04/20/2012	76.12	-----	29.38	-----	46.74
GMW-35	04/05/2013	76.12	30.61	30.83	0.22	NC
GMW-35	04/08/2013	76.12	30.58	30.80	0.22	NC
GMW-35	10/02/2013	76.12	31.38	31.71	0.33	NC
GMW-35	04/09/2014	76.12	31.95	31.97	0.02	NC
GMW-35	04/16/2014	76.12	31.95	32.15	0.20	NC
GMW-35	10/27/2014	76.12	32.16	32.18	0.02	NC
GMW-35	Well decommissioned in December 2014 prior to remedial excavation					
GMW-35R	10/3/2017	75.90	-----	38.07	-----	37.83
GMW-36	05/28/1996	74.53	25.71	26.88	1.17	NC
GMW-36	11/20/1996	74.53	26.56	26.82	0.26	NC
GMW-36	07/01/1997	74.53	25.09	25.71	0.62	NC
GMW-36	12/31/1997	74.53	-----	26.74	-----	47.79
GMW-36	05/04/1999	74.53	-----	23.68	-----	50.85
GMW-36	08/09/1999	74.53	-----	24.80	-----	49.73
GMW-36	11/15/1999	74.53	-----	25.48	-----	49.05
GMW-36	05/15/2000	74.53	-----	25.01	-----	49.52
GMW-36	11/13/2000	74.53	-----	25.96	-----	48.57
GMW-36	02/05/2001	74.53	-----	25.41	-----	49.12
GMW-36	05/07/2001	74.53	-----	23.37	-----	51.16
GMW-36	05/10/2001	74.53	-----	23.43	-----	51.10
GMW-36	09/18/2001	74.53	-----	23.95	-----	50.58
GMW-36	11/05/2001	74.53	-----	24.24	-----	50.29
GMW-36	01/29/2002	74.53	-----	24.60	-----	49.93
GMW-36	04/08/2002	74.53	-----	24.92	-----	49.61
GMW-36	07/29/2002	74.53	-----	25.92	-----	48.61
GMW-36	10/21/2002	74.53	25.54	29.46	3.92	NC
GMW-36	11/04/2002	74.53	25.55	29.05	3.50	NC
GMW-36	01/27/2003	74.53	26.75	28.02	1.27	NC
GMW-36	04/07/2003	74.53	26.63	27.47	0.84	NC
GMW-36	05/02/2005	74.53	20.03	21.23	1.20	NC
GMW-36	10/31/2005	74.53	22.69	22.73	0.04	NC
GMW-36	05/01/2006	74.53	22.80	22.91	0.11	NC
GMW-36	12/04/2006	74.53	-----	23.86	-----	50.67
GMW-36	03/12/2007	74.53	-----	24.29	-----	50.24
GMW-36	04/30/2007	74.53	-----	24.40	-----	50.13
GMW-36	08/28/2007	74.53	-----	24.31	-----	50.22
GMW-36	11/12/2007	74.53	24.85	24.86	0.01	NC
GMW-36	02/19/2008	74.53	-----	25.50	-----	49.03
GMW-36	04/14/2008	74.53	-----	24.61	-----	49.92
GMW-36	08/08/2008	74.53	26.14	26.20	0.06	NC
GMW-36	10/16/2008	74.77	26.09	26.11	0.02	NC

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-36	04/20/2009	74.53	25.59	25.63	0.04	NC
GMW-36	07/20/2009	74.53	-----	25.90	-----	48.63
GMW-36	10/19/2009	74.53	26.45	26.56	0.11	NC
GMW-36	03/15/2010	74.53	-----	26.80	-----	47.73
GMW-36	04/16/2010	74.53	-----	26.90	-----	47.63
GMW-36	05/24/2010	74.53	25.90	25.96	0.06	NC
GMW-36	05/28/2010	74.53	25.88	25.94	0.06	NC
GMW-36	06/22/2010	74.53	25.91	25.94	0.03	NC
GMW-36	10/04/2010	74.53	-----	26.90	-----	47.63
GMW-36	11/23/2010	74.53	27.10	27.35	0.25	NC
GMW-36	12/22/2010	74.53	26.84	28.35	1.51	NC
GMW-36	01/10/2011	74.53	27.70	29.10	1.40	NC
GMW-36	04/12/2011	74.53	25.05	26.98	1.93	NC
GMW-36	10/10/2011	74.53	-----	25.96	-----	48.57
GMW-36	12/21/2011	74.53	-----	28.17	-----	46.36
GMW-36	01/09/2012	74.53	-----	27.26	-----	47.27
GMW-36	02/23/2012	74.53	-----	27.85	-----	46.68
GMW-36	04/16/2012	74.53	-----	27.34	-----	47.19
GMW-36	06/15/2012	76.66	-----	33.27	-----	43.39
GMW-36	07/09/2012	76.66	-----	33.71	-----	42.95
GMW-36	10/15/2012	76.66	-----	32.11	-----	44.55
GMW-36	11/29/2012	76.66	31.68	33.93	2.25	NC
GMW-36	12/26/2012	76.66	30.36	34.86	4.50	NC
GMW-36	01/14/2013	76.66	30.42	34.12	3.70	NC
GMW-36	04/10/2013	76.66	29.75	32.42	2.67	NC
GMW-36	10/07/2013	76.66	30.72	34.65	3.93	NC
GMW-36	04/25/2014	76.66	31.12	34.71	3.59	NC
GMW-36	10/27/2014	76.66	31.79	33.02	1.23	NC
GMW-36	04/20/2015	76.66	32.20	33.64	1.44	NC
GMW-36	10/21/2015	76.66	33.16	33.55	0.39	NC
GMW-36	04/12/2016	76.66	34.03	34.30	0.27	NC
GMW-36	10/3/2016	76.66	34.65	35.05	0.40	NC
GMW-36	4/17/2017	76.66	-----	32.96	-----	43.70
GMW-36	10/2/2017	76.66	-----	34.10	-----	42.56
GMW-37	11/20/1996	77.32	-----	29.76	-----	47.56
GMW-37	07/01/1997	77.32	-----	28.37	-----	48.95
GMW-37	12/31/1997	77.32	-----	28.71	-----	48.61
GMW-37	05/03/1999	77.32	-----	27.76	-----	49.56
GMW-37	08/09/1999	77.32	-----	28.10	-----	49.22
GMW-37	11/15/1999	77.32	-----	28.57	-----	48.75
GMW-37	05/15/2000	77.32	-----	28.19	-----	49.13
GMW-37	11/13/2000	77.32	-----	28.89	-----	48.43
GMW-37	02/05/2001	77.32	-----	28.65	-----	48.67
GMW-37	05/07/2001	77.32	-----	26.94	-----	50.38

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Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-37	09/18/2001	77.32	----	27.43	----	49.89
GMW-37	11/05/2001	77.32	----	27.56	----	49.76
GMW-37	01/29/2002	77.32	----	27.89	----	49.43
GMW-37	04/08/2002	77.32	----	27.94	----	49.38
GMW-37	10/21/2002	77.32	----	29.11	----	48.21
GMW-37	01/27/2003	77.32	----	28.74	----	48.58
GMW-37	04/07/2003	77.32	----	28.30	----	49.02
GMW-37	07/31/2003	77.32	----	28.02	----	49.30
GMW-37	10/06/2003	77.32	----	27.92	----	49.40
GMW-37	01/11/2004	77.32	----	29.62	----	47.70
GMW-37	01/27/2004	77.32	----	28.81	----	48.51
GMW-37	04/19/2004	77.32	----	28.91	----	48.41
GMW-37	07/19/2004	77.32	----	28.91	----	48.41
GMW-37	02/01/2005	77.32	----	27.77	----	49.55
GMW-37	05/02/2005	77.32	----	23.34	----	53.98
GMW-37	08/01/2005	77.32	----	24.61	----	52.71
GMW-37	10/31/2005	77.32	----	25.35	----	51.97
GMW-37	02/27/2006	77.32	----	25.81	----	51.51
GMW-37	05/01/2006	77.32	----	25.86	----	51.46
GMW-37	09/18/2006	77.32	----	24.62	----	52.70
GMW-37	12/04/2006	77.32	----	26.83	----	50.49
GMW-37	04/30/2007	77.32	----	27.18	----	50.14
GMW-37	11/12/2007	77.32	----	27.61	----	49.71
GMW-37	04/14/2008	77.32	----	27.60	----	49.72
GMW-37	10/13/2008	77.32	----	28.56	----	48.76
GMW-37	04/20/2009	77.32	----	28.54	----	48.78
GMW-37	10/19/2009	77.32	----	29.47	----	47.85
GMW-37	05/24/2010	77.32	----	29.25	----	48.07
GMW-37	05/28/2010	77.32	----	29.20	----	48.12
GMW-37	10/04/2010	77.32	----	29.50	----	47.82
GMW-37	01/10/2011	77.32	----	29.90	----	47.42
GMW-37	04/11/2011	77.32	----	28.31	----	49.01
GMW-37	10/10/2011	77.32	----	29.00	----	48.32
GMW-37	01/09/2012	77.32	----	29.72	----	47.60
GMW-37	04/16/2012	77.32	----	30.10	----	47.22
GMW-37	07/09/2012	77.32	----	30.86	----	46.46
GMW-37	10/15/2012	77.32	----	30.90	----	46.42
GMW-37	01/14/2013	77.32	----	31.79	----	45.53
GMW-37	04/08/2013	77.32	----	31.69	----	45.63
GMW-37	10/07/2013	77.32	----	32.51	----	44.81
GMW-37	04/14/2014	77.32	----	32.55	----	44.77
GMW-37	10/27/2014	77.32	----	32.57	----	44.75
GMW-37	04/20/2015	77.32	----	33.51	----	43.81
GMW-37	10/19/2015	77.32	----	34.11	----	43.21

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-37	04/11/2016	77.32	----	35.20	----	42.12
GMW-37	10/3/2016	77.32	----	35.10	----	42.22
GMW-37	4/17/2017	77.32	----	33.68	----	43.64
GMW-37	10/2/2017	77.32	----	35.53	----	41.79
GMW-38	05/28/1996	75.47	----	27.15	----	48.32
GMW-38	11/20/1996	75.47	----	28.09	----	47.38
GMW-38	05/03/1999	75.47	----	26.08	----	49.39
GMW-38	08/09/1999	75.47	----	26.42	----	49.05
GMW-38	11/15/1999	75.47	----	26.97	----	48.50
GMW-38	05/15/2000	75.47	----	26.53	----	48.94
GMW-38	11/13/2000	75.47	----	27.24	----	48.23
GMW-38	05/07/2001	75.47	----	25.14	----	50.33
GMW-38	11/05/2001	75.47	----	25.84	----	49.63
GMW-38	02/01/2002	75.47	----	25.91	----	49.56
GMW-38	04/08/2002	75.47	----	26.52	----	48.95
GMW-38	10/21/2002	75.47	----	27.39	----	48.08
GMW-38	01/27/2003	75.47	----	27.05	----	48.42
GMW-38	04/07/2003	75.47	----	26.47	----	49.00
GMW-38	07/31/2003	75.47	----	26.26	----	49.21
GMW-38	10/06/2003	75.47	----	26.51	----	48.96
GMW-38	01/11/2004	75.47	----	27.91	----	47.56
GMW-38	01/27/2004	75.47	----	27.04	----	48.43
GMW-38	04/19/2004	75.47	----	27.15	----	48.32
GMW-38	07/19/2004	75.47	----	27.26	----	48.21
GMW-38	02/01/2005	75.47	----	25.99	----	49.48
GMW-38	05/02/2005	75.47	----	28.53	----	46.94
GMW-38	08/01/2005	75.47	----	22.91	----	52.56
GMW-38	10/31/2005	75.47	----	23.65	----	51.82
GMW-38	02/27/2006	75.47	----	24.04	----	51.43
GMW-38	05/01/2006	75.47	----	24.09	----	51.38
GMW-38	09/18/2006	75.47	----	24.85	----	50.62
GMW-38	12/04/2006	75.47	----	25.07	----	50.40
GMW-38	03/12/2007	75.47	----	25.48	----	49.99
GMW-38	04/30/2007	75.47	----	25.42	----	50.05
GMW-38	08/28/2007	75.47	----	25.29	----	50.18
GMW-38	11/12/2007	75.47	----	25.89	----	49.58
GMW-38	04/14/2008	75.47	----	25.81	----	49.66
GMW-38	10/13/2008	75.47	----	26.72	----	48.75
GMW-38	04/20/2009	75.47	----	27.05	----	48.42
GMW-38	07/20/2009	75.47	----	27.21	----	48.26
GMW-38	10/19/2009	75.47	----	27.78	----	47.69
GMW-38	03/15/2010	75.47	----	27.92	----	47.55
GMW-38	05/24/2010	75.47	----	27.50	----	47.97
GMW-38	05/28/2010	75.47	----	27.40	----	48.07

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-38	10/04/2010	75.47	----	27.77	----	47.70
GMW-38	01/10/2011	75.47	----	28.00	----	47.47
GMW-38	04/11/2011	75.47	----	26.49	----	48.98
GMW-38	07/11/2011	75.47	----	26.83	----	48.64
GMW-38	10/10/2011	75.47	----	27.28	----	48.19
GMW-38	01/09/2012	75.47	----	27.90	----	47.57
GMW-38	04/16/2012	75.47	----	28.32	----	47.15
GMW-38	07/09/2012	75.47	----	28.97	----	46.50
GMW-38	10/15/2012	75.47	----	29.75	----	45.72
GMW-38	01/14/2013	75.47	----	30.18	----	45.29
GMW-38	04/08/2013	75.47	----	30.07	----	45.40
GMW-38	10/07/2013	75.47	----	30.31	----	45.16
GMW-38	04/14/2014	75.47	----	30.76	----	44.71
GMW-38	10/27/2014	75.47	----	31.16	----	44.31
GMW-38	04/20/2015	75.47	----	31.59	----	43.88
GMW-38	10/19/2015	75.47	----	32.33	----	43.14
GMW-38	04/11/2016	75.47	----	33.45	----	42.02
GMW-38	10/3/2016	75.47	----	34.10	----	41.37
GMW-38	4/17/2017	75.47	----	31.83	----	43.64
GMW-38	10/2/2017	75.47	----	33.55	----	41.92
GMW-39	05/28/1996	75.05	----	26.67	----	48.38
GMW-39	11/20/1996	75.05	----	27.68	----	47.37
GMW-39	05/03/1999	75.05	----	25.50	----	49.55
GMW-39	08/09/1999	75.05	----	25.99	----	49.06
GMW-39	11/15/1999	75.05	----	26.52	----	48.53
GMW-39	05/15/2000	75.05	----	25.95	----	49.10
GMW-39	11/13/2000	75.05	----	26.88	----	48.17
GMW-39	05/07/2001	75.05	----	24.64	----	50.41
GMW-39	11/05/2001	75.05	----	25.28	----	49.77
GMW-39	02/01/2002	75.05	----	25.20	----	49.85
GMW-39	04/08/2002	75.05	----	26.11	----	48.94
GMW-39	10/21/2002	75.05	----	27.19	----	47.86
GMW-39	01/27/2003	75.05	----	26.67	----	48.38
GMW-39	04/07/2003	75.05	----	26.05	----	49.00
GMW-39	07/31/2003	75.05	----	25.79	----	49.26
GMW-39	10/06/2003	75.05	----	26.04	----	49.01
GMW-39	01/11/2004	75.05	----	27.54	----	47.51
GMW-39	01/27/2004	75.05	----	26.63	----	48.42
GMW-39	04/19/2004	75.05	----	26.04	----	49.01
GMW-39	07/19/2004	75.05	----	26.78	----	48.27
GMW-39	02/01/2005	75.05	----	25.41	----	49.64
GMW-39	05/02/2005	75.05	----	20.34	----	54.71
GMW-39	08/01/2005	75.05	----	22.23	----	52.82
GMW-39	10/31/2005	75.05	----	22.90	----	52.15

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-39	02/27/2006	75.05	----	23.48	----	51.57
GMW-39	05/01/2006	75.05	----	23.60	----	51.45
GMW-39	09/18/2006	75.05	----	24.37	----	50.68
GMW-39	12/04/2006	75.05	----	24.64	----	50.41
GMW-39	03/12/2007	75.05	----	25.12	----	49.93
GMW-39	04/30/2007	75.05	----	25.12	----	49.93
GMW-39	08/28/2007	75.05	----	25.15	----	49.90
GMW-39	11/12/2007	75.05	----	25.62	----	49.43
GMW-39	02/19/2008	75.05	----	25.91	----	49.14
GMW-39	04/14/2008	75.05	----	25.44	----	49.61
GMW-39	08/11/2008	75.05	----	26.21	----	48.84
GMW-39	10/13/2008	75.05	----	26.51	----	48.54
GMW-39	04/20/2009	75.05	----	26.43	----	48.62
GMW-39	07/20/2009	75.05	----	26.85	----	48.20
GMW-39	10/19/2009	75.05	----	27.58	----	47.47
GMW-39	03/15/2010	75.05	----	27.41	----	47.64
GMW-39	05/24/2010	75.05	----	27.12	----	47.93
GMW-39	05/28/2010	75.05	----	27.09	----	47.96
GMW-39	10/04/2010	75.05	----	27.38	----	47.67
GMW-39	01/10/2011	75.05	----	27.63	----	47.42
GMW-39	04/11/2011	75.05	----	25.92	----	49.13
GMW-39	07/11/2011	75.05	----	26.55	----	48.50
GMW-39	10/10/2011	75.05	----	26.85	----	48.20
GMW-39	01/09/2012	75.05	----	28.44	----	46.61
GMW-39	04/16/2012	75.05	----	28.04	----	47.01
GMW-39	07/09/2012	75.05	----	28.62	----	46.43
GMW-39	10/15/2012	75.05	----	29.58	----	45.47
GMW-39	01/14/2013	75.05	----	29.72	----	45.33
GMW-39	04/08/2013	75.05	----	29.71	----	45.34
GMW-39	10/07/2013	75.05	----	29.92	----	45.13
GMW-39	04/14/2014	75.05	----	30.25	----	44.80
GMW-39	04/20/2015	75.05	----	31.04	----	44.01
GMW-39	10/19/2015	75.05	----	31.87	----	43.18
GMW-39	04/11/2016	75.05	----	32.80	----	42.25
GMW-39	10/3/2016	75.05	----	33.20	----	41.85
GMW-39	4/17/2017	75.05	----	31.57	----	43.48
GMW-39	10/2/2017	75.05	----	32.82	----	42.23
GMW-40	05/28/1996	73.13	----	26.00	----	47.13
GMW-40	11/20/1996	73.13	----	26.74	----	46.39
GMW-40	07/01/1997	73.13	----	27.43	----	45.70
GMW-40	12/31/1997	73.13	----	26.66	----	46.47
GMW-40	05/01/1998	73.13	----	24.03	----	49.10
GMW-40	05/25/1999	73.13	----	24.84	----	48.29
GMW-40	05/15/2000	73.13	----	25.65	----	47.48

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-40	11/13/2000	73.13	----	26.21	----	46.92
GMW-40	05/07/2001	73.13	----	24.26	----	48.87
GMW-40	04/08/2002	73.13	----	25.14	----	47.99
GMW-40	10/21/2002	73.13	----	25.49	----	47.64
GMW-40	04/07/2003	73.13	----	24.60	----	48.53
GMW-40	10/06/2003	73.13	----	25.02	----	48.11
GMW-40	04/19/2004	73.13	----	26.59	----	46.54
GMW-40	11/05/2004	73.13	----	24.10	----	49.03
GMW-40	05/02/2005	73.13	----	21.17	----	51.96
GMW-40	05/01/2006	73.13	----	22.54	----	50.59
GMW-40	12/01/2006	73.13	----	23.51	----	49.62
GMW-40	04/30/2007	73.13	----	23.74	----	49.39
GMW-40	11/12/2007	73.13	----	24.60	----	48.53
GMW-40	04/11/2008	73.13	----	24.09	----	49.04
GMW-40	10/14/2008	73.13	----	25.01	----	48.12
GMW-40	02/10/2009	73.13	----	25.05	----	48.08
GMW-40	04/20/2009	73.13	----	27.40	----	45.73
GMW-40	10/19/2009	73.13	----	26.00	----	47.13
GMW-40	04/08/2010	73.13	----	25.31	----	47.82
GMW-40	04/12/2010	73.13	----	25.20	----	47.93
GMW-40	10/01/2010	73.13	----	25.83	----	47.30
GMW-40	10/04/2010	73.13	----	25.70	----	47.43
GMW-40	10/10/2011	73.13	----	25.13	----	48.00
GMW-40	04/12/2012	73.13	----	26.48	----	46.65
GMW-40	10/02/2013	73.13	----	28.57	----	44.56
GMW-40	04/07/2014	73.13	----	30.24	----	42.89
GMW-40	04/14/2014	73.13	----	29.92	----	43.21
GMW-40	10/27/2014	73.13	----	30.03	----	43.10
GMW-40	04/20/2015	73.13	----	30.46	----	42.67
GMW-40	10/3/2016	73.13	----	34.98	----	38.15
GMW-40	4/20/2017	73.13	----	32.80	----	40.33
GMW-41	05/28/1996	74.46	----	27.01	----	47.45
GMW-41	11/20/1996	74.46	----	27.92	----	46.54
GMW-41	07/01/1997	74.46	----	28.31	----	46.15
GMW-41	12/31/1997	74.46	----	27.81	----	46.65
GMW-41	05/01/1998	74.46	----	25.10	----	49.36
GMW-41	05/25/1999	74.46	----	26.02	----	48.44
GMW-41	05/15/2000	74.46	----	26.69	----	47.77
GMW-41	11/13/2000	74.46	----	27.32	----	47.14
GMW-41	05/07/2001	74.46	----	25.45	----	49.01
GMW-41	04/08/2002	74.46	----	26.36	----	48.10
GMW-41	10/21/2002	74.46	----	26.85	----	47.61
GMW-41	04/07/2003	74.46	----	26.15	----	48.31
GMW-41	10/06/2003	74.46	----	26.22	----	48.24

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-41	04/19/2004	74.46	----	27.64	----	46.82
GMW-41	11/01/2004	74.46	----	27.54	----	46.92
GMW-41	05/02/2005	74.46	----	22.28	----	52.18
GMW-41	05/01/2006	74.46	----	23.87	----	50.59
GMW-41	12/01/2006	74.46	----	24.71	----	49.75
GMW-41	04/30/2007	74.46	----	25.06	----	49.40
GMW-41	11/12/2007	74.46	----	25.87	----	48.59
GMW-41	04/11/2008	74.46	----	25.44	----	49.02
GMW-41	07/24/2008	74.46	----	25.80	----	48.66
GMW-41	10/14/2008	74.46	----	26.35	----	48.11
GMW-41	02/10/2009	74.46	----	26.58	----	47.88
GMW-41	04/20/2009	74.46	----	26.61	----	47.85
GMW-41	10/19/2009	74.46	----	27.34	----	47.12
GMW-41	04/08/2010	74.46	----	26.64	----	47.82
GMW-41	04/12/2010	74.46	----	26.44	----	48.02
GMW-41	10/04/2010	74.46	----	26.91	----	47.55
GMW-41	01/07/2011	74.46	----	27.58	----	46.88
GMW-41	04/08/2011	74.46	----	26.01	----	48.45
GMW-41	07/08/2011	74.46	----	26.01	----	48.45
GMW-41	10/06/2011	74.46	----	26.61	----	47.85
GMW-41	10/10/2011	74.46	----	26.53	----	47.93
GMW-41	04/12/2012	74.46	----	27.77	----	46.69
GMW-41	04/16/2012	74.46	----	27.54	----	46.92
GMW-41	01/11/2013	74.46	----	29.47	----	44.99
GMW-41	04/03/2013	74.46	----	29.29	----	45.17
GMW-41	04/08/2013	74.46	----	29.16	----	45.30
GMW-41	10/02/2013	74.46	----	29.89	----	44.57
GMW-41	04/07/2014	74.46	31.05	31.07	0.02	NC
GMW-41	04/15/2014	74.46	31.05	31.14	0.09	NC
GMW-41	10/27/2014	74.46	----	30.78	----	43.68
GMW-41	04/20/2015	74.46	----	31.22	----	43.24
GMW-41	10/3/2016	74.46	----	35.97	----	38.49
GMW-41	4/17/2017	74.46	----	29.79	----	44.67
GMW-41	10/3/2017	72.69	well full of mud			
GMW-42	05/28/1996	75.50	27.89	29.36	1.47	NC
GMW-42	11/20/1996	75.50	28.87	29.55	0.68	NC
GMW-42	07/01/1997	75.50	29.06	29.52	0.46	NC
GMW-42	12/31/1997	75.50	----	28.87	----	46.63
GMW-42	05/01/1998	75.50	----	26.18	----	49.32
GMW-42	05/25/1999	75.50	----	26.99	----	48.51
GMW-42	05/15/2000	75.50	----	27.54	----	47.96
GMW-42	11/13/2000	75.50	----	28.32	----	47.18
GMW-42	05/07/2001	75.50	----	26.25	----	49.25
GMW-42	04/08/2002	75.50	----	27.57	----	47.93

**APPENDIX D
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Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-42	10/21/2002	75.50	----	27.96	----	47.54
GMW-42	04/07/2003	75.50	----	27.25	----	48.25
GMW-42	10/06/2003	75.50	----	27.30	----	48.20
GMW-42	04/19/2004	75.50	----	28.78	----	46.72
GMW-42	11/01/2004	75.50	----	28.40	----	47.10
GMW-42	05/03/2005	75.50	----	22.32	----	53.18
GMW-42	05/01/2006	75.50	----	24.46	----	51.04
GMW-42	12/01/2006	75.50	----	23.51	----	51.99
GMW-42	04/30/2007	75.50	----	26.07	----	49.43
GMW-42	11/12/2007	75.50	----	26.38	----	49.12
GMW-42	04/11/2008	75.50	----	25.95	----	49.55
GMW-42	10/16/2008	75.50	----	26.92	----	48.58
GMW-42	04/07/2010	75.50	----	27.60	----	47.90
GMW-42	10/01/2010	75.50	----	28.13	----	47.37
GMW-42	01/08/2011	75.50	----	28.03	----	47.47
GMW-42	04/12/2012	75.50	----	28.88	----	46.62
GMW-42	10/02/2013	75.50	----	30.99	----	44.51
GMW-42	04/07/2014	75.50	----	31.98	----	43.52
GMW-42	04/14/2014	75.50	----	31.42	----	44.08
GMW-42	10/27/2014	75.50	----	31.93	----	43.57
GMW-42	04/20/2015	75.50	----	32.21	----	43.29
GMW-42	10/3/2017	75.50	----	34.71	----	40.79
GMW-43	05/28/1996	74.44	----	27.03	----	47.41
GMW-43	11/20/1996	74.44	----	28.03	----	46.41
GMW-43	07/01/1997	74.44	----	27.66	----	46.78
GMW-43	12/31/1997	74.44	----	27.70	----	46.74
GMW-43	05/01/1998	74.44	----	24.93	----	49.51
GMW-43	05/25/1999	74.44	----	25.72	----	48.72
GMW-43	05/15/2000	74.44	----	26.41	----	48.03
GMW-43	11/13/2000	74.44	----	26.97	----	47.47
GMW-43	05/07/2001	74.44	----	25.11	----	49.33
GMW-43	04/08/2002	74.44	----	26.70	----	47.74
GMW-43	10/21/2002	74.44	----	26.66	----	47.78
GMW-43	04/07/2003	74.44	----	26.00	----	48.44
GMW-43	10/06/2003	74.44	----	26.12	----	48.32
GMW-43	04/19/2004	74.44	----	27.40	----	47.04
GMW-43	11/03/2004	74.44	----	26.63	----	47.81
GMW-43	05/02/2005	74.44	----	21.03	----	53.41
GMW-43	05/01/2006	74.44	----	23.36	----	51.08
GMW-43	12/01/2006	74.44	----	24.59	----	49.85
GMW-43	04/30/2007	74.44	----	25.00	----	49.44
GMW-43	11/12/2007	74.44	----	25.60	----	48.84
GMW-43	04/14/2008	74.44	----	25.17	----	49.27
GMW-43	07/24/2008	74.44	----	25.77	----	48.67

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)	
GMW-43	10/14/2008	74.44	----	26.34	----	48.10	
GMW-43	02/10/2009	74.44	----	26.79	----	47.65	
GMW-43	04/20/2009	74.44	----	27.11	----	47.33	
GMW-43	10/19/2009	74.44	----	27.31	----	47.13	
GMW-43	04/08/2010	74.44	----	26.52	----	47.92	
GMW-43	04/12/2010	74.44	----	26.24	----	48.20	
GMW-43	01/08/2011	74.44	----	26.95	----	47.49	
GMW-43	04/07/2011	74.44	----	25.76	----	48.68	
GMW-43	07/08/2011	74.44	----	26.10	----	48.34	
GMW-43	10/06/2011	74.44	----	26.65	----	47.79	
GMW-43	04/12/2012	74.44	----	27.86	----	46.58	
GMW-43	04/16/2012	74.44	----	27.74	----	46.70	
GMW-43	01/10/2013	74.44	----	29.27	----	45.17	
GMW-43	04/03/2013	74.44	----	29.24	----	45.20	
GMW-43	04/08/2013	74.44	----	29.11	----	45.33	
GMW-43	10/02/2013	74.44	----	30.00	----	44.44	
GMW-43	04/07/2014	74.44	----	30.81	----	43.63	
GMW-43	04/14/2014	74.44	----	30.42	----	44.02	
GMW-43	10/27/2014	74.44	----	30.87	----	43.57	
GMW-43	04/20/2015	74.44	----	31.24	----	43.20	
GMW-43	4/17/2017	74.44	----	31.42	----	43.02	
GMW-43	10/3/2017	76.07	well full of mud				
GMW-44	05/28/1996	74.45	----	27.19	----	47.26	
GMW-44	11/20/1996	74.45	----	28.29	----	46.16	
GMW-44	07/01/1997	74.45	----	27.75	----	46.70	
GMW-44	12/31/1997	74.45	----	27.90	----	46.55	
GMW-44	05/01/1998	74.45	----	25.13	----	49.32	
GMW-44	05/25/1999	74.45	----	25.88	----	48.57	
GMW-44	05/15/2000	74.45	----	26.63	----	47.82	
GMW-44	11/13/2000	74.45	----	27.16	----	47.29	
GMW-44	05/07/2001	74.45	----	25.38	----	49.07	
GMW-44	04/08/2002	74.45	----	26.70	----	47.75	
GMW-44	10/21/2002	74.45	----	26.88	----	47.57	
GMW-44	04/07/2003	74.45	----	26.30	----	48.15	
GMW-44	10/06/2003	74.45	----	26.29	----	48.16	
GMW-44	04/19/2004	74.45	----	28.45	----	46.00	
GMW-44	05/02/2005	74.45	----	22.00	----	52.45	
GMW-44	11/03/2005	74.45	----	27.21	----	47.24	
GMW-44	05/01/2006	74.45	----	23.98	----	50.47	
GMW-44	12/01/2006	74.45	----	24.81	----	49.64	
GMW-44	04/30/2007	74.45	----	25.32	----	49.13	
GMW-44	11/12/2007	74.45	----	25.82	----	48.63	
GMW-44	04/14/2008	74.45	----	25.45	----	49.00	
GMW-44	07/24/2008	74.45	----	25.95	----	48.50	

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Defense Fuel Support Point Norwalk
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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-44	10/14/2008	74.45	----	26.60	----	47.85
GMW-44	02/10/2009	74.45	----	26.87	----	47.58
GMW-44	04/20/2009	74.45	----	26.51	----	47.94
GMW-44	10/19/2009	74.45	----	27.43	----	47.02
GMW-44	04/08/2010	74.45	----	26.77	----	47.68
GMW-44	04/12/2010	74.45	----	26.51	----	47.94
GMW-44	01/07/2011	74.45	----	27.47	----	46.98
GMW-44	04/08/2011	74.45	----	26.05	----	48.40
GMW-44	10/06/2011	74.45	----	26.91	----	47.54
GMW-44	04/12/2012	74.45	----	28.13	----	46.32
GMW-44	04/16/2012	74.45	----	27.92	----	46.53
GMW-44	01/10/2013	74.45	----	29.54	----	44.91
GMW-44	04/03/2013	74.45	----	29.51	----	44.94
GMW-44	04/08/2013	74.45	----	29.42	----	45.03
GMW-44	10/02/2013	74.45	----	30.25	----	44.20
GMW-44	04/07/2014	74.45	----	31.06	----	43.39
GMW-44	04/14/2014	74.45	----	30.72	----	43.73
GMW-44	10/27/2014	74.45	----	31.10	----	43.35
GMW-44	04/20/2015	74.45	----	31.46	----	42.99
GMW-44	10/3/2016	74.45	----	33.62	----	40.83
GMW-44	4/18/2017	74.45	----	32.08	----	42.37
GMW-44	10/3/2017	75.71	----	34.41	----	41.30
GMW-45	05/28/1996	75.67	----	28.30	----	47.37
GMW-45	11/20/1996	75.67	----	29.21	----	46.46
GMW-45	07/01/1997	75.67	----	28.32	----	47.35
GMW-45	12/31/1997	75.67	----	28.81	----	46.86
GMW-45	05/01/1998	75.67	----	25.75	----	49.92
GMW-45	05/25/1999	75.67	----	26.74	----	48.93
GMW-45	05/15/2000	75.67	----	27.68	----	47.99
GMW-45	11/13/2000	75.67	----	28.02	----	47.65
GMW-45	05/07/2001	75.67	----	28.65	----	47.02
GMW-45	04/08/2002	75.67	----	27.92	----	47.75
GMW-45	10/21/2002	75.67	----	28.33	----	47.34
GMW-45	04/07/2003	75.67	----	27.50	----	48.17
GMW-45	10/06/2003	75.67	----	27.26	----	48.41
GMW-45	04/19/2004	75.67	----	28.17	----	47.50
GMW-45	11/01/2004	75.67	----	28.35	----	47.32
GMW-45	05/02/2005	75.67	----	23.15	----	52.52
GMW-45	03/06/2006	75.67	----	25.21	----	50.46
GMW-45	05/01/2006	75.67	----	25.15	----	50.52
GMW-45	08/26/2006	75.67	----	25.53	----	50.14
GMW-45	12/01/2006	75.67	----	25.96	----	49.71
GMW-45	03/21/2007	75.67	----	26.09	----	49.58
GMW-45	04/27/2007	75.67	----	26.48	----	49.19

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-45	08/28/2007	75.67	----	26.42	----	49.25
GMW-45	11/12/2007	75.67	----	26.94	----	48.73
GMW-45	02/05/2008	74.45	----	27.52	----	46.93
GMW-45	04/11/2008	75.67	----	26.76	----	48.91
GMW-45	07/24/2008	75.67	----	27.27	----	48.40
GMW-45	10/13/2008	75.67	----	27.95	----	47.72
GMW-45	02/09/2009	74.45	----	27.68	----	46.77
GMW-45	04/20/2009	75.67	----	27.58	----	48.09
GMW-45	07/16/2009	75.67	----	27.91	----	47.76
GMW-45	10/19/2009	75.67	----	28.54	----	47.13
GMW-45	04/07/2010	75.67	----	28.22	----	47.45
GMW-45	04/12/2010	75.67	----	27.85	----	47.82
GMW-45	01/06/2011	75.67	----	28.75	----	46.92
GMW-45	04/07/2011	75.67	----	27.38	----	48.29
GMW-45	07/07/2011	75.67	----	27.63	----	48.04
GMW-45	10/07/2011	75.67	----	28.22	----	47.45
GMW-45	04/12/2012	75.67	----	29.30	----	46.37
GMW-45	04/19/2012	75.67	----	29.02	----	46.65
GMW-45	01/10/2013	75.67	----	30.35	----	45.32
GMW-45	04/02/2013	75.67	----	30.34	----	45.33
GMW-45	04/08/2013	75.67	----	30.29	----	45.38
GMW-45	10/01/2013	75.67	31.07	31.09	0.02	NC
GMW-45	04/09/2014	75.67	31.67	31.69	0.02	NC
GMW-45	04/15/2014	75.67	31.68	31.95	0.27	NC
GMW-45	10/27/2014	75.67	----	32.01	----	43.66
GMW-45	04/20/2015	75.67	32.31	32.33	0.02	NC
GMW-45	10/3/2016	ns	----	34.60	----	NC
GMW-45	4/19/2017	75.67	33.30	34.72	1.42	NC
GMW-45	10/2/2017	75.67	----	34.57	----	41.10
GMW-46	08/26/2006	76.10	----	24.72	----	51.38
GMW-46	08/28/2007	75.31	----	25.89	----	49.42
GMW-47	05/28/1996	75.98	----	28.45	----	47.53
GMW-47	11/20/1996	75.98	----	29.43	----	46.55
GMW-47	07/01/1997	75.98	----	28.34	----	47.64
GMW-47	12/31/1997	75.98	----	28.90	----	47.08
GMW-47	05/01/1998	75.98	----	25.79	----	50.19
GMW-47	05/25/1999	75.98	----	26.91	----	49.07
GMW-47	05/15/2000	75.98	----	27.61	----	48.37
GMW-47	11/13/2000	75.98	----	28.13	----	47.85
GMW-47	02/05/2001	75.98	----	27.17	----	48.81
GMW-47	05/07/2001	75.98	----	26.71	----	49.27
GMW-47	04/08/2002	75.98	----	27.21	----	48.77
GMW-47	09/19/2002	75.98	----	28.50	----	47.48
GMW-47	10/21/2002	75.98	----	29.04	----	46.94

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-47	04/07/2003	75.98	----	27.82	----	48.16
GMW-47	10/06/2003	75.98	----	27.44	----	48.54
GMW-47	04/19/2004	75.98	----	28.27	----	47.71
GMW-47	11/01/2004	75.98	----	28.60	----	47.38
GMW-47	02/28/2005	75.98	----	24.87	----	51.11
GMW-47	05/02/2005	75.98	----	23.17	----	52.81
GMW-47	03/06/2006	75.98	----	24.67	----	51.31
GMW-47	05/01/2006	75.98	----	25.16	----	50.82
GMW-47	08/26/2006	75.98	----	25.62	----	50.36
GMW-47	12/01/2006	75.98	----	26.15	----	49.83
GMW-47	03/21/2007	75.98	----	26.30	----	49.68
GMW-47	04/27/2007	75.98	----	26.71	----	49.27
GMW-47	08/28/2007	75.98	----	26.74	----	49.24
GMW-47	11/12/2007	75.98	----	27.12	----	48.86
GMW-47	02/05/2008	75.98	----	27.75	----	48.23
GMW-47	04/11/2008	75.98	----	26.93	----	49.05
GMW-47	07/24/2008	75.98	----	27.49	----	48.49
GMW-47	10/13/2008	75.98	----	28.19	----	47.79
GMW-47	02/09/2009	75.98	----	28.07	----	47.91
GMW-47	04/20/2009	75.98	----	27.66	----	48.32
GMW-47	07/16/2009	75.98	----	28.22	----	47.76
GMW-47	07/20/2009	75.98	----	28.10	----	47.88
GMW-47	10/19/2009	75.98	----	28.48	----	47.50
GMW-47	01/11/2010	75.98	----	29.10	----	46.88
GMW-47	04/12/2010	75.98	----	28.52	----	47.46
GMW-47	01/06/2011	75.98	----	29.05	----	46.93
GMW-47	04/07/2011	75.98	----	27.50	----	48.48
GMW-47	07/07/2011	75.98	----	27.83	----	48.15
GMW-47	10/06/2011	75.98	----	28.41	----	47.57
GMW-47	01/10/2012	75.98	----	28.71	----	47.27
GMW-47	04/12/2012	75.98	----	29.55	----	46.43
GMW-47	04/20/2012	75.98	----	29.26	----	46.72
GMW-47	01/10/2013	75.98	----	30.57	----	45.41
GMW-47	04/02/2013	75.98	----	30.55	----	45.43
GMW-47	04/08/2013	75.98	----	30.55	----	45.43
GMW-47	10/01/2013	75.98	----	31.28	----	44.70
GMW-47	04/09/2014	75.98	----	31.79	----	44.19
GMW-47	04/15/2014	75.98	----	31.62	----	44.36
GMW-47	10/27/2014	75.98	----	32.11	----	43.87
GMW-47	04/20/2015	75.98	----	32.45	----	43.53
GMW-47	10/19/2015	75.98	----	33.26	----	42.72
GMW-47	04/11/2016	75.98	----	33.79	----	42.19
GMW-47	10/3/2016	75.98	----	34.25	----	41.73
GMW-47	4/19/2017	75.98	----	33.55	----	42.43

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-47	10/3/2017	75.98	----	34.20	----	41.78
GMW-48	05/28/1996	75.03	----	27.40	----	47.63
GMW-48	11/20/1996	75.03	----	28.40	----	46.63
GMW-48	07/01/1997	75.03	27.11	27.58	0.47	NC
GMW-48	12/31/1997	75.03	27.37	29.58	2.21	NC
GMW-48	05/01/1998	75.03	23.63	24.46	0.83	NC
GMW-48	05/26/1999	75.03	25.72	27.01	1.29	NC
GMW-48	05/15/2000	75.03	26.31	26.49	0.18	NC
GMW-48	11/13/2000	75.03	----	27.21	----	47.82
GMW-48	05/07/2001	75.03	25.65	26.10	0.45	NC
GMW-48	09/19/2002	75.03	----	26.50	----	48.53
GMW-48	10/21/2002	75.03	----	27.10	----	47.93
GMW-48	04/07/2003	75.03	25.89	25.90	0.01	NC
GMW-48	10/06/2003	75.03	----	25.59	----	49.44
GMW-48	04/19/2004	75.03	----	26.41	----	48.62
GMW-48	11/01/2004	75.03	----	26.90	----	48.13
GMW-48	02/28/2005	75.03	----	23.00	----	52.03
GMW-48	05/02/2005	75.03	----	20.80	----	54.23
GMW-48	03/06/2006	75.03	----	23.61	----	51.42
GMW-48	05/01/2006	75.03	----	23.07	----	51.96
GMW-48	08/26/2006	75.03	----	23.50	----	51.53
GMW-48	12/01/2006	75.03	----	24.54	----	50.49
GMW-48	03/21/2007	75.03	----	24.57	----	50.46
GMW-48	04/27/2007	75.03	----	24.85	----	50.18
GMW-48	08/28/2007	75.03	----	24.92	----	50.11
GMW-48	11/12/2007	75.03	----	25.37	----	49.66
GMW-48	04/11/2008	75.03	----	25.07	----	49.96
GMW-48	10/13/2008	75.03	----	26.39	----	48.64
GMW-48	04/07/2010	75.03	----	26.40	----	48.63
GMW-48	10/01/2010	75.03	----	26.89	----	48.14
GMW-48	01/06/2011	75.03	----	27.29	----	47.74
GMW-48	04/07/2011	75.03	----	25.53	----	49.50
GMW-48	07/07/2011	75.03	----	25.89	----	49.14
GMW-48	10/06/2011	75.03	----	26.55	----	48.48
GMW-48	04/13/2012	75.03	----	27.48	----	47.55
GMW-48	01/10/2013	75.03	----	28.77	----	46.26
GMW-48	04/03/2013	75.03	----	28.77	----	46.26
GMW-48	10/02/2013	75.03	----	29.45	----	45.58
GMW-48	04/09/2014	75.03	----	29.90	----	45.13
GMW-48	04/17/2014	75.03	----	29.82	----	45.21
GMW-48	10/27/2014	75.03	----	30.17	----	44.86
GMW-48	04/20/2015	75.03	----	30.50	----	44.53
GMW-48	10/19/2015	75.03	----	31.31	----	43.72
GMW-48	10/3/2016	ns	----	37.03	----	NC

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HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-48	4/19/2017	ns	----	36.15	----	NC
GMW-48	10/3/2017	75.03	----	36.53	----	38.50
GMW-50	05/25/1999	75.51	----	26.36	----	49.15
GMW-50	05/15/2000	75.51	----	27.34	----	48.17
GMW-50	05/07/2001	75.51	25.95	26.26	0.31	NC
GMW-50	09/19/2002	75.51	----	27.82	----	47.69
GMW-50	10/21/2002	75.51	----	28.70	----	46.81
GMW-50	04/07/2003	75.51	----	27.00	----	48.51
GMW-50	10/06/2003	75.51	----	26.83	----	48.68
GMW-50	04/19/2004	75.51	----	27.66	----	47.85
GMW-50	11/01/2004	75.51	----	28.11	----	47.40
GMW-50	02/28/2005	75.51	----	23.80	----	51.71
GMW-50	05/02/2005	75.51	----	22.42	----	53.09
GMW-50	03/06/2006	75.51	----	24.53	----	50.98
GMW-50	05/01/2006	75.51	----	24.63	----	50.88
GMW-50	08/26/2006	75.51	----	25.10	----	50.41
GMW-50	12/01/2006	75.51	----	25.61	----	49.90
GMW-50	03/21/2007	75.51	----	25.75	----	49.76
GMW-50	04/27/2007	75.51	----	26.17	----	49.34
GMW-50	08/28/2007	75.51	----	26.15	----	49.36
GMW-50	11/12/2007	75.51	----	26.58	----	48.93
GMW-50	02/05/2008	75.51	----	27.24	----	48.27
GMW-50	04/11/2008	75.51	----	26.32	----	49.19
GMW-50	07/24/2008	75.51	----	26.97	----	48.54
GMW-50	10/13/2008	75.51	----	27.67	----	47.84
GMW-50	02/09/2009	75.51	----	27.40	----	48.11
GMW-50	07/16/2009	75.51	----	27.87	----	47.64
GMW-50	04/07/2010	75.51	----	27.68	----	47.83
GMW-50	10/01/2010	75.51	----	28.16	----	47.35
GMW-50	01/06/2011	75.51	----	28.58	----	46.93
GMW-50	04/12/2012	75.51	----	29.00	----	46.51
GMW-50	04/14/2016	75.51	----	33.36	----	42.15
GMW-51	05/25/1999	75.93	----	26.71	----	49.22
GMW-51	05/15/2000	75.93	----	27.70	----	48.23
GMW-51	11/13/2000	75.93	----	27.94	----	47.99
GMW-51	05/07/2001	75.93	26.43	28.44	2.01	NC
GMW-51	09/19/2002	75.93	----	28.22	----	47.71
GMW-51	10/21/2002	75.93	----	29.13	----	46.80
GMW-51	04/07/2003	75.93	----	27.55	----	48.38
GMW-51	10/06/2003	75.93	----	27.15	----	48.78
GMW-51	04/19/2004	75.93	----	27.99	----	47.94
GMW-51	11/01/2004	75.93	----	28.47	----	47.46
GMW-51	02/28/2005	75.93	----	24.24	----	51.69
GMW-51	05/02/2005	75.93	----	22.61	----	53.32

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-51	03/06/2006	75.93	----	25.02	----	50.91
GMW-51	05/01/2006	75.93	----	25.04	----	50.89
GMW-51	08/26/2006	75.93	----	25.51	----	50.42
GMW-51	12/01/2006	75.93	----	25.98	----	49.95
GMW-51	03/21/2007	75.93	----	26.12	----	49.81
GMW-51	04/27/2007	75.93	----	26.54	----	49.39
GMW-51	08/28/2007	75.93	----	26.50	----	49.43
GMW-51	11/12/2007	75.93	----	26.95	----	48.98
GMW-51	02/05/2008	75.93	----	27.59	----	48.34
GMW-51	04/11/2008	75.93	----	26.69	----	49.24
GMW-51	07/24/2008	75.93	----	27.15	----	48.78
GMW-51	10/13/2008	75.93	----	28.05	----	47.88
GMW-51	02/09/2009	75.93	----	27.49	----	48.44
GMW-51	07/16/2009	75.93	----	28.15	----	47.78
GMW-51	04/07/2010	75.93	----	28.08	----	47.85
GMW-51	10/01/2010	75.93	----	28.49	----	47.44
GMW-51	01/06/2011	75.93	----	28.96	----	46.97
GMW-51	04/12/2012	75.93	----	29.41	----	46.52
GMW-52	05/25/1999	75.03	----	25.73	----	49.30
GMW-52	05/15/2000	75.03	----	26.33	----	48.70
GMW-52	11/13/2000	75.03	----	26.99	----	48.04
GMW-52	05/07/2001	75.03	----	25.15	----	49.88
GMW-52	04/08/2002	75.03	----	26.61	----	48.42
GMW-52	10/21/2002	75.03	----	27.15	----	47.88
GMW-52	04/07/2003	75.03	----	26.34	----	48.69
GMW-52	10/06/2003	75.03	----	26.21	----	48.82
GMW-52	04/19/2004	75.03	----	26.97	----	48.06
GMW-52	11/01/2004	75.03	----	27.62	----	47.41
GMW-52	05/02/2005	75.03	----	21.16	----	53.87
GMW-52	03/06/2006	75.03	----	23.95	----	51.08
GMW-52	05/01/2006	75.03	----	23.95	----	51.08
GMW-52	08/26/2006	75.03	----	24.40	----	50.63
GMW-52	12/01/2006	75.03	----	24.92	----	50.11
GMW-52	03/21/2007	75.03	----	25.17	----	49.86
GMW-52	04/30/2007	75.03	----	25.38	----	49.65
GMW-52	08/28/2007	75.03	----	25.80	----	49.23
GMW-52	11/12/2007	75.03	----	25.93	----	49.10
GMW-52	02/05/2008	75.03	----	26.71	----	48.32
GMW-52	04/14/2008	75.03	----	25.46	----	49.57
GMW-52	07/24/2008	75.03	----	25.89	----	49.14
GMW-52	10/14/2008	75.03	----	26.69	----	48.34
GMW-52	02/10/2009	75.03	----	26.95	----	48.08
GMW-52	07/16/2009	75.03	----	27.25	----	47.78
GMW-52	04/08/2010	75.03	----	26.71	----	48.32

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HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-52	10/01/2010	75.03	----	27.42	----	47.61
GMW-52	01/08/2011	75.03	----	27.77	----	47.26
GMW-52	04/12/2012	75.03	----	28.96	----	46.07
GMW-53	05/25/1999	74.90	----	25.60	----	49.30
GMW-53	05/15/2000	74.90	----	26.20	----	48.70
GMW-53	05/07/2001	74.90	----	25.00	----	49.90
GMW-53	04/08/2002	74.90	----	26.47	----	48.43
GMW-53	10/21/2002	74.90	----	27.04	----	47.86
GMW-53	04/07/2003	74.90	----	26.24	----	48.66
GMW-53	10/06/2003	74.90	----	26.08	----	48.82
GMW-53	04/19/2004	74.90	----	26.83	----	48.07
GMW-53	11/01/2004	74.90	----	27.54	----	47.36
GMW-53	05/02/2005	74.90	----	21.34	----	53.56
GMW-53	03/06/2006	74.90	----	23.87	----	51.03
GMW-53	05/01/2006	74.90	----	23.85	----	51.05
GMW-53	08/26/2006	74.90	----	24.34	----	50.56
GMW-53	12/01/2006	74.90	----	24.85	----	50.05
GMW-53	03/21/2007	74.90	----	24.92	----	49.98
GMW-53	04/30/2007	74.90	----	25.26	----	49.64
GMW-53	08/28/2007	74.90	----	25.11	----	49.79
GMW-53	11/12/2007	74.90	----	25.83	----	49.07
GMW-53	02/05/2008	74.90	----	26.25	----	48.65
GMW-53	04/14/2008	74.90	----	25.38	----	49.52
GMW-53	10/14/2008	74.90	----	26.58	----	48.32
GMW-53	02/10/2009	74.90	----	26.78	----	48.12
GMW-53	07/16/2009	74.90	----	27.04	----	47.86
GMW-53	04/08/2010	74.90	26.83	26.84	0.01	NC
GMW-53	10/01/2010	74.90	----	27.29	----	47.61
GMW-53	01/08/2011	74.90	----	27.67	----	47.23
GMW-53	04/12/2012	74.90	----	28.15	----	46.75
GMW-54	05/25/1999	75.16	----	26.68	----	48.48
GMW-54	05/15/2000	75.16	----	27.40	----	47.76
GMW-54	11/13/2000	75.16	----	26.93	----	48.23
GMW-54	05/07/2001	75.16	----	25.63	----	49.53
GMW-54	04/08/2002	75.16	----	27.06	----	48.10
GMW-54	10/21/2002	75.16	----	27.43	----	47.73
GMW-54	04/07/2003	75.16	----	26.78	----	48.38
GMW-54	10/06/2003	75.16	----	26.95	----	48.21
GMW-54	04/19/2004	75.16	----	28.33	----	46.83
GMW-54	11/01/2004	75.16	----	28.11	----	47.05
GMW-54	05/02/2005	75.16	----	22.06	----	53.10
GMW-54	05/01/2006	75.16	----	24.45	----	50.71
GMW-54	12/01/2006	75.16	----	25.36	----	49.80
GMW-54	04/30/2007	75.16	----	25.74	----	49.42

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-54	11/12/2007	75.16	----	26.35	----	48.81
GMW-54	04/11/2008	75.16	----	25.91	----	49.25
GMW-54	07/24/2008	75.16	----	26.05	----	49.11
GMW-54	10/14/2008	75.16	----	26.94	----	48.22
GMW-54	02/10/2009	75.16	----	26.78	----	48.38
GMW-54	04/08/2010	75.16	----	27.25	----	47.91
GMW-54	10/01/2010	75.16	----	27.68	----	47.48
GMW-54	01/07/2011	75.16	----	28.14	----	47.02
GMW-54	04/12/2012	75.16	----	28.36	----	46.80
GMW-54	10/02/2013	75.16	----	30.50	----	44.66
GMW-54	04/07/2014	75.16	----	31.62	----	43.54
GMW-54	10/27/2014	75.16	----	31.43	----	43.73
GMW-54	04/20/2015	75.16	----	31.84	----	43.32
GMW-54	4/19/2017	75.16	----	32.80	----	42.36
GMW-54	10/3/2017	74.73	----	34.15	----	40.58
GMW-55	05/25/1999	74.60	----	26.11	----	48.49
GMW-55	05/15/2000	74.60	----	26.83	----	47.77
GMW-55	11/13/2000	74.60	----	26.36	----	48.24
GMW-55	05/07/2001	74.60	----	24.91	----	49.69
GMW-55	04/08/2002	74.60	----	26.43	----	48.17
GMW-55	10/21/2002	74.60	----	26.85	----	47.75
GMW-55	04/07/2003	74.60	----	26.22	----	48.38
GMW-55	10/06/2003	74.60	----	26.35	----	48.25
GMW-55	04/19/2004	74.60	----	27.77	----	46.83
GMW-55	11/01/2004	74.60	----	27.59	----	47.01
GMW-55	05/02/2005	74.60	----	22.33	----	52.27
GMW-55	05/01/2006	74.60	----	23.94	----	50.66
GMW-55	12/01/2006	74.60	----	24.78	----	49.82
GMW-55	04/30/2007	74.60	----	25.11	----	49.49
GMW-55	11/12/2007	74.60	----	25.89	----	48.71
GMW-55	04/11/2008	74.60	----	25.46	----	49.14
GMW-55	10/14/2008	74.60	----	26.38	----	48.22
GMW-55	04/20/2009	74.60	----	28.31	----	46.29
GMW-55	04/08/2010	74.60	----	26.66	----	47.94
GMW-55	10/01/2010	74.60	----	27.15	----	47.45
GMW-55	01/07/2011	74.60	----	27.61	----	46.99
GMW-56	07/07/2011	76.52	----	28.45	----	48.07
GMW-56	10/07/2011	76.52	----	28.98	----	47.54
GMW-56	04/12/2012	76.52	----	30.04	----	46.48
GMW-56	01/10/2013	76.52	----	31.05	----	45.47
GMW-56	04/02/2013	76.52	----	31.04	----	45.48
GMW-56	10/01/2013	76.52	----	31.78	----	44.74
GMW-56	04/09/2014	76.52	----	32.40	----	44.12
GMW-56	04/14/2014	76.52	----	32.28	----	44.24

**APPENDIX D
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Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-56	10/27/2014	76.52	----	32.77	----	43.75
GMW-56	04/20/2015	76.52	----	33.10	----	43.42
GMW-56	04/11/2016	76.52	----	34.33	----	42.19
GMW-56	10/3/2016	76.52	----	34.73	----	41.79
GMW-56	4/17/2017	76.52	----	34.19	----	42.33
GMW-56	10/2/2017	76.52	----	33.32	----	43.20
GMW-57	07/07/2011	76.66	----	28.53	----	48.13
GMW-57	10/06/2011	76.66	----	29.12	----	47.54
GMW-57	01/09/2012	76.66	----	29.48	----	47.18
GMW-57	04/12/2012	76.66	----	30.15	----	46.51
GMW-57	04/17/2012	76.66	----	29.85	----	46.81
GMW-57	01/10/2013	76.66	----	31.18	----	45.48
GMW-57	04/02/2013	76.66	----	31.18	----	45.48
GMW-57	04/08/2013	76.66	----	31.04	----	45.62
GMW-57	10/01/2013	76.66	----	31.88	----	44.78
GMW-57	04/09/2014	76.66	----	32.34	----	44.32
GMW-57	04/15/2014	76.66	----	32.02	----	44.64
GMW-57	10/27/2014	76.66	----	32.69	----	43.97
GMW-57	04/20/2015	76.66	----	33.02	----	43.64
GMW-57	10/19/2015	76.66	----	33.84	----	42.82
GMW-57	04/13/2016	76.66	----	34.43	----	42.23
GMW-57	10/3/2016	76.66	----	34.86	----	41.80
GMW-57	4/19/2017	76.66	----	34.21	----	42.45
GMW-57	10/3/2017	76.66	----	34.80	----	41.86
GMW-58	07/08/2011	75.48	----	26.46	----	49.02
GMW-58	10/06/2011	75.48	----	27.11	----	48.37
GMW-58	01/10/2012	75.48	----	27.42	----	48.06
GMW-58	04/12/2012	75.48	----	28.20	----	47.28
GMW-58	04/18/2012	75.48	----	27.86	----	47.62
GMW-58	01/11/2013	75.48	----	29.26	----	46.22
GMW-58	04/03/2013	75.48	----	29.23	----	46.25
GMW-58	04/08/2013	75.48	----	29.17	----	46.31
GMW-58	10/02/2013	75.48	----	29.90	----	45.58
GMW-58	04/09/2014	75.48	----	30.37	----	45.11
GMW-58	04/16/2014	75.48	----	30.20	----	45.28
GMW-58	10/27/2014	75.48	----	30.69	----	44.79
GMW-58	04/20/2015	75.48	----	31.01	----	44.47
GMW-58	11/05/2015	75.48	32.18	32.25	0.07	NC
GMW-58	04/13/2016	75.48	----	32.42	----	43.06
GMW-58	4/19/2017	75.48	----	32.08	----	43.40
GMW-58	10/3/2017	75.48	----	34.22	----	41.26
GMW-59	07/07/2011	75.28	----	25.69	----	49.59
GMW-59	10/06/2011	75.28	----	26.35	----	48.93
GMW-59	01/10/2012	75.28	----	26.80	----	48.48

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Defense Fuel Support Point Norwalk
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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-59	04/12/2012	75.28	27.55	27.56	0.01	NC
GMW-59	04/20/2012	75.28	----	27.28	----	48.00
GMW-59	01/10/2013	75.28	----	28.60	----	46.68
GMW-59	04/03/2013	75.28	----	28.62	----	46.66
GMW-59	04/08/2013	75.28	----	29.02	----	46.26
GMW-59	10/01/2013	75.28	----	29.35	----	45.93
GMW-59	04/09/2014	75.28	----	29.65	----	45.63
GMW-59	04/17/2014	75.28	----	29.65	----	45.63
GMW-59	10/27/2014	75.28	----	29.92	----	45.36
GMW-59	04/20/2015	75.28	----	30.26	----	45.02
GMW-59	10/19/2015	75.28	----	31.31	sheen	43.97
GMW-59	04/13/2016	75.28	----	31.77	----	43.51
GMW-59	10/3/2016	75.28	----	32.24	----	43.04
GMW-59	4/19/2017	75.28	----	31.45	----	43.83
GMW-59	10/3/2017	75.28	----	32.03	----	43.25
GMW-60	11/01/2004	76.24	----	28.70	----	47.54
GMW-60	02/28/2005	76.24	----	24.90	----	51.34
GMW-60	05/02/2005	76.24	----	23.04	----	53.20
GMW-60	03/06/2006	76.24	----	25.30	----	50.94
GMW-60	05/01/2006	76.24	----	25.54	----	50.70
GMW-60	08/26/2006	76.24	----	25.87	----	50.37
GMW-60	12/01/2006	76.24	----	26.34	----	49.90
GMW-60	03/21/2007	76.24	----	26.75	----	49.49
GMW-60	04/27/2007	76.24	----	26.94	----	49.30
GMW-60	08/28/2007	76.24	----	27.03	----	49.21
GMW-60	11/12/2007	76.24	----	27.41	----	48.83
GMW-60	02/05/2008	76.24	----	27.92	----	48.32
GMW-60	04/11/2008	76.24	----	27.05	----	49.19
GMW-60	07/24/2008	76.24	----	27.64	----	48.60
GMW-60	10/13/2008	76.24	----	28.46	----	47.78
GMW-60	02/09/2009	76.24	----	28.27	----	47.97
GMW-60	04/20/2009	76.24	----	28.21	----	48.03
GMW-60	07/16/2009	76.24	----	28.37	----	47.87
GMW-60	07/20/2009	76.24	----	28.61	----	47.63
GMW-60	10/19/2009	76.24	----	28.81	----	47.43
GMW-60	01/11/2010	76.24	----	29.53	----	46.71
GMW-60	04/07/2010	76.24	----	28.54	----	47.70
GMW-60	04/12/2010	76.24	----	28.04	----	48.20
GMW-60	01/08/2011	76.24	----	29.09	----	47.15
GMW-60	04/08/2011	76.24	----	27.53	----	48.71
GMW-60	07/07/2011	76.24	----	28.02	----	48.22
GMW-60	10/06/2011	76.24	----	28.65	----	47.59
GMW-60	01/10/2012	76.24	----	28.46	----	47.78
GMW-60	04/12/2012	76.24	----	29.65	----	46.59

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-60	04/20/2012	76.24	----	29.47	----	46.77
GMW-60	01/11/2013	76.24	----	30.65	----	45.59
GMW-60	04/03/2013	76.24	----	30.62	----	45.62
GMW-60	04/08/2013	76.24	----	31.28	----	44.96
GMW-60	10/01/2013	76.24	----	31.35	----	44.89
GMW-60	04/09/2014	76.24	----	31.78	----	44.46
GMW-60	04/17/2014	76.24	----	31.42	----	44.82
GMW-60	10/27/2014	76.24	----	32.15	----	44.09
GMW-60	04/20/2015	76.24	----	32.42	----	43.82
GMW-60	10/20/2015	76.24	----	33.34	----	42.90
GMW-60	04/13/2016	76.24	----	33.91	----	42.33
GMW-60	10/3/2016	76.24	----	34.37	----	41.87
GMW-60	4/18/2017	76.24	----	32.92	----	43.32
GMW-60	10/3/2017	76.24	----	34.21	----	42.03
GMW-61	11/01/2004	75.60	----	28.02	----	47.58
GMW-61	02/28/2005	75.60	----	23.81	----	51.79
GMW-61	05/02/2005	75.60	----	22.18	----	53.42
GMW-61	03/06/2006	75.60	----	24.53	----	51.07
GMW-61	05/01/2006	75.60	----	24.64	----	50.96
GMW-61	08/26/2006	75.60	----	25.13	----	50.47
GMW-61	12/01/2006	75.60	----	25.60	----	50.00
GMW-61	03/21/2007	75.60	----	26.01	----	49.59
GMW-61	04/27/2007	75.60	----	26.25	----	49.35
GMW-61	08/28/2007	75.60	----	26.21	----	49.39
GMW-61	11/12/2007	75.60	----	26.67	----	48.93
GMW-61	02/05/2008	75.60	----	27.17	----	48.43
GMW-61	04/11/2008	75.60	----	26.29	----	49.31
GMW-61	07/24/2008	75.60	----	27.01	----	48.59
GMW-61	10/13/2008	75.60	----	27.73	----	47.87
GMW-61	02/09/2009	75.60	----	27.56	----	48.04
GMW-61	04/20/2009	75.60	----	27.14	----	48.46
GMW-61	07/16/2009	75.60	----	27.69	----	47.91
GMW-61	07/20/2009	75.60	----	27.84	----	47.76
GMW-61	10/19/2009	75.60	----	28.22	----	47.38
GMW-61	01/11/2010	75.60	----	28.81	----	46.79
GMW-61	04/07/2010	75.60	----	27.67	----	47.93
GMW-61	04/12/2010	75.60	----	27.22	----	48.38
GMW-61	01/08/2011	75.60	----	28.37	----	47.23
GMW-61	04/08/2011	75.60	----	26.68	----	48.92
GMW-61	07/07/2011	75.60	----	27.23	----	48.37
GMW-61	10/06/2011	75.60	----	27.92	----	47.68
GMW-61	01/10/2012	75.60	----	28.41	----	47.19
GMW-61	04/12/2012	75.60	----	29.06	----	46.54
GMW-61	04/19/2012	75.60	----	28.71	----	46.89

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-61	01/11/2013	75.60	----	30.05	----	45.55
GMW-61	04/03/2013	75.60	----	30.11	----	45.49
GMW-61	04/08/2013	75.60	----	30.01	----	45.59
GMW-61	10/02/2013	75.60	----	30.70	----	44.90
GMW-61	04/09/2014	75.60	----	31.11	----	44.49
GMW-61	04/17/2014	75.60	----	30.78	----	44.82
GMW-61	10/27/2014	75.60	----	31.39	----	44.21
GMW-61	04/20/2015	75.60	----	31.72	----	43.88
GMW-61	10/20/2015	75.60	32.65	32.67	0.02	NC
GMW-61	04/13/2016	75.60	----	33.20	----	42.40
GMW-61	10/3/2016	76.24	----	33.72	----	42.52
GMW-61	4/19/2017	76.24	----	33.65	----	42.59
GMW-61	10/3/2017	75.60	----	33.46	----	42.14
GMW-62	07/02/2007	76.34	----	27.03	----	49.31
GMW-62	02/05/2008	76.34	----	27.79	----	48.55
GMW-62	04/14/2008	76.34	----	26.87	----	49.47
GMW-62	07/24/2008	76.34	----	27.98	----	48.36
GMW-62	10/14/2008	76.34	----	28.24	----	48.10
GMW-62	02/10/2009	76.34	----	28.31	----	48.03
GMW-62	04/20/2009	76.34	----	27.94	----	48.40
GMW-62	07/17/2009	76.34	----	28.15	----	48.19
GMW-62	07/21/2009	76.34	----	28.30	----	48.04
GMW-62	10/19/2009	76.34	----	29.00	----	47.34
GMW-62	01/11/2010	76.34	----	29.51	----	46.83
GMW-62	04/12/2010	76.34	----	28.24	----	48.10
GMW-62	01/10/2011	76.34	28.78	29.08	0.30	NC
GMW-62	04/07/2011	76.34	26.89	28.57	1.68	NC
GMW-62	07/07/2011	76.34	28.03	28.14	0.11	NC
GMW-62	10/06/2011	76.34	28.45	29.39	0.94	NC
GMW-62	01/09/2012	76.34	28.97	29.02	0.05	NC
GMW-62	04/12/2012	76.34	29.58	29.68	0.10	NC
GMW-62	04/18/2012	76.34	29.40	29.46	0.06	NC
GMW-62	01/11/2013	76.34	----	30.62	----	45.72
GMW-62	04/03/2013	76.34	30.42	31.36	0.94	NC
GMW-62	04/08/2013	76.34	30.35	32.13	1.78	NC
GMW-62	10/02/2013	76.34	31.00	32.33	1.33	NC
GMW-62	04/09/2014	76.34	31.02	33.50	2.48	NC
GMW-62	04/15/2014	76.34	31.02	33.71	2.69	NC
GMW-62	10/27/2014	76.34	32.14	37.77	5.63	NC
GMW-62	04/20/2015	76.34	32.97	32.98	0.01	NC
GMW-62	10/20/2015	76.34	33.29	33.30	0.01	NC
GMW-62	04/11/2016	76.34	34.39	34.40	0.01	NC
GMW-62	10/3/2016	76.34	34.72	34.73	0.01	NC
GMW-62	4/17/2017	76.34	34.14	34.16	0.02	42.20

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-62	10/2/2017	76.34	34.21	34.22	0.01	NC
GMW-63	10/14/2008	77.32	----	29.17	----	48.15
GMW-63	02/10/2009	77.32	----	29.08	----	48.24
GMW-63	04/20/2009	77.32	----	28.71	----	48.61
GMW-63	07/17/2009	77.32	----	29.11	----	48.21
GMW-63	07/21/2009	77.32	----	29.15	----	48.17
GMW-63	10/19/2009	77.32	----	29.84	----	47.48
GMW-63	01/11/2010	77.32	----	30.12	----	47.20
GMW-63	04/12/2010	77.32	----	29.22	----	48.10
GMW-63	01/08/2011	77.32	----	29.35	----	47.97
GMW-63	04/07/2011	77.32	----	28.63	----	48.69
GMW-63	07/07/2011	77.32	----	29.13	----	48.19
GMW-63	10/06/2011	77.32	----	29.63	----	47.69
GMW-63	01/09/2012	77.32	----	29.83	----	47.49
GMW-63	04/12/2012	77.32	----	30.51	----	46.81
GMW-63	04/17/2012	77.32	----	30.25	----	47.07
GMW-63	01/11/2013	77.32	----	31.23	----	46.09
GMW-63	04/03/2013	77.32	----	31.28	----	46.04
GMW-63	04/08/2013	77.32	----	31.14	----	46.18
GMW-63	10/02/2013	77.32	----	31.92	----	45.40
GMW-63	04/09/2014	77.32	----	32.08	----	45.24
GMW-63	10/27/2014	77.32	----	32.51	----	44.81
GMW-63	04/14/2014	77.32	----	32.02	----	45.30
GMW-63	04/20/2015	77.32	----	32.86	----	44.46
GMW-63	10/20/2015	77.32	----	33.73	----	43.59
GMW-63	04/11/2016	77.32	----	34.33	----	42.99
GMW-63	10/3/2016	77.32	----	34.89	----	42.43
GMW-63	4/17/2017	77.32	----	34.43	----	42.89
GMW-63	10/2/2017	77.32	----	34.81	----	42.51
GMW-63	10/25/2017	77.32	----	34.93	----	42.39
GMW-64	10/14/2008	75.84	----	27.60	----	48.24
GMW-64	02/10/2009	75.84	----	27.47	----	48.37
GMW-64	04/20/2009	75.84	----	27.00	----	48.84
GMW-64	07/17/2009	75.84	----	27.37	----	48.47
GMW-64	07/21/2009	75.84	----	27.52	----	48.32
GMW-64	10/19/2009	75.84	----	28.11	----	47.73
GMW-64	01/11/2010	75.84	----	28.53	----	47.31
GMW-64	04/12/2010	75.84	----	27.10	----	48.74
GMW-64	01/08/2011	75.84	----	27.81	----	48.03
GMW-64	04/07/2011	75.84	----	26.45	----	49.39
GMW-64	07/07/2011	75.84	----	27.21	----	48.63
GMW-64	10/06/2011	75.84	----	27.86	----	47.98
GMW-64	01/09/2012	75.84	----	28.21	----	47.63
GMW-64	04/12/2012	75.84	----	28.96	----	46.88

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-64	04/17/2012	75.84	----	28.65	----	47.19
GMW-64	01/11/2013	75.84	----	29.69	----	46.15
GMW-64	04/03/2013	75.84	----	29.72	----	46.12
GMW-64	04/08/2013	75.84	----	29.53	----	46.31
GMW-64	10/02/2013	75.84	----	30.49	----	45.35
GMW-64	04/09/2014	75.84	----	30.33	----	45.51
GMW-64	04/14/2014	75.84	----	30.22	----	45.62
GMW-64	10/27/2014	75.84	----	30.81	----	45.03
GMW-64	04/20/2015	75.84	----	31.24	----	44.60
GMW-64	10/20/2015	75.84	----	32.33	----	43.51
GMW-64	04/11/2016	75.84	----	32.89	----	42.95
GMW-64	10/3/2016	75.84	----	33.45	----	42.39
GMW-64	4/17/2017	75.84	----	32.78	----	43.06
GMW-64	10/2/2017	75.84	----	32.98	----	42.86
GMW-64	10/25/2017	75.84	----	33.13	----	42.71
GMW-65	07/17/2009	76.78	----	28.65	----	48.13
GMW-65	07/21/2009	76.78	----	28.83	----	47.95
GMW-65	10/19/2009	76.78	----	29.60	----	47.18
GMW-65	01/11/2010	76.78	----	29.80	----	46.98
GMW-65	04/12/2010	76.78	----	28.68	----	48.10
GMW-65	01/08/2011	76.78	----	29.39	----	47.39
GMW-65	04/07/2011	76.78	----	27.98	----	48.80
GMW-65	07/07/2011	76.78	----	28.63	----	48.15
GMW-65	10/06/2011	76.78	----	29.18	----	47.60
GMW-65	01/09/2012	76.78	----	29.43	----	47.35
GMW-65	04/12/2012	76.78	----	30.15	----	46.63
GMW-65	04/18/2012	76.78	----	29.85	----	46.93
GMW-65	01/11/2013	76.78	----	31.08	----	45.70
GMW-65	04/03/2013	76.78	----	31.07	----	45.71
GMW-65	04/08/2013	76.78	----	30.92	----	45.86
GMW-65	10/02/2013	76.78	----	31.75	----	45.03
GMW-65	04/09/2014	76.78	----	31.87	----	44.91
GMW-65	04/14/2014	76.78	----	31.68	----	45.10
GMW-65	10/27/2014	76.78	----	32.35	----	44.43
GMW-65	04/20/2015	76.78	----	32.68	----	44.10
GMW-65	10/20/2015	76.78	----	33.54	----	43.24
GMW-65	04/11/2016	76.78	----	34.19	----	42.59
GMW-65	10/3/2016	76.78	----	34.75	----	42.03
GMW-65	4/17/2017	76.78	----	34.43	----	42.35
GMW-65	10/2/2017	76.78	----	34.51	----	42.27
GMW-65	10/25/2017	76.78	----	34.78	----	42.00
GMW-66	10/19/2009	77.00	----	29.73	----	47.27
GMW-66	04/12/2010	77.00	----	29.64	----	47.36
GMW-66	04/07/2011	77.00	----	28.63	----	48.37

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-66	07/07/2011	77.00	----	28.96	----	48.04
GMW-66	10/06/2011	77.00	----	29.48	----	47.52
GMW-66	04/12/2012	77.00	----	30.46	----	46.54
GMW-66	04/17/2012	77.00	----	30.11	----	46.89
GMW-66	01/10/2013	77.00	----	31.36	----	45.64
GMW-66	04/02/2013	77.00	----	31.34	----	45.66
GMW-66	04/08/2013	77.00	----	31.25	----	45.75
GMW-66	10/01/2013	77.00	----	32.06	----	44.94
GMW-66	04/09/2014	77.00	----	32.53	----	44.47
GMW-66	04/15/2014	77.00	----	32.48	----	44.52
GMW-66	10/27/2014	77.00	----	32.93	----	44.07
GMW-66	Well decommissioned in December 2014 prior to remedial excavation					
GMW-66R	10/3/2016	79.23	----	37.35	----	41.88
GMW-66R	4/17/2017	79.23	----	36.98	----	42.25
GMW-66R	10/3/2017	79.23	----	37.34	----	41.89
GMW-67	10/20/2015	76.00	----	32.90	----	43.10
GMW-67	04/11/2016	76.00	----	33.53	----	42.47
GMW-67	10/3/2016	76.00	----	34.05	----	41.95
GMW-67	4/17/2017	76.00	----	33.44	----	42.56
GMW-67	10/2/2017	76.00	----	33.76	----	42.24
GMW-68	10/20/2015	75.52	----	32.44	----	43.08
GMW-68	04/11/2016	75.52	----	33.06	----	42.46
GMW-68	10/3/2016	75.52	32.80	35.80	3.00	NC
GMW-68	4/17/2017	75.52	32.64	33.62	0.98	NC
GMW-68	10/2/2017	75.52	33.28	33.30	0.02	NC
GMW-69	10/20/2015	75.31	----	32.21	----	43.10
GMW-69	04/11/2016	75.31	----	32.83	----	42.48
GMW-69	10/3/2016	75.31	----	33.33	----	41.98
GMW-69	4/17/2017	75.31	----	32.68	----	42.63
GMW-69	10/2/2017	75.31	----	32.99	----	42.32
GMW-69	10/25/2017	75.31	----	33.29	----	42.02
GMW-O-1	05/28/1996	71.45	----	24.16	----	47.29
GMW-O-1	11/20/1996	71.45	----	24.51	----	46.94
GMW-O-1	07/01/1997	71.45	----	24.93	----	46.52
GMW-O-1	12/31/1997	71.45	----	24.57	----	46.88
GMW-O-1	05/01/1998	71.45	----	22.51	----	48.94
GMW-O-1	02/02/1999	71.45	----	21.57	----	49.88
GMW-O-1	05/05/1999	71.45	----	22.20	----	49.25
GMW-O-1	08/09/1999	71.45	----	22.52	----	48.93
GMW-O-1	11/15/1999	71.45	----	22.68	----	48.77
GMW-O-1	02/29/2000	71.45	----	22.78	----	48.67
GMW-O-1	05/15/2000	71.45	----	22.75	----	48.70
GMW-O-1	08/28/2000	71.45	----	23.02	----	48.43
GMW-O-1	11/13/2000	71.45	----	23.26	----	48.19

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-O-1	02/05/2001	71.45	----	23.01	----	48.44
GMW-O-1	05/07/2001	71.45	----	22.39	----	49.06
GMW-O-1	09/18/2001	71.45	----	21.96	----	49.49
GMW-O-1	11/05/2001	71.45	----	22.18	----	49.27
GMW-O-1	01/29/2002	71.45	----	22.18	----	49.27
GMW-O-1	04/08/2002	71.45	----	22.51	----	48.94
GMW-O-1	07/29/2002	71.45	----	22.97	----	48.48
GMW-O-1	10/21/2002	71.45	----	23.14	----	48.31
GMW-O-1	01/27/2003	71.45	----	23.03	----	48.42
GMW-O-1	04/07/2003	71.45	----	23.11	----	48.34
GMW-O-1	07/30/2003	71.45	----	22.84	----	48.61
GMW-O-1	10/06/2003	71.45	----	22.76	----	48.69
GMW-O-1	01/11/2004	71.45	----	23.77	----	47.68
GMW-O-1	01/27/2004	71.45	----	23.06	----	48.39
GMW-O-1	04/19/2004	71.45	----	23.45	----	48.00
GMW-O-1	07/19/2004	71.45	----	23.45	----	48.00
GMW-O-1	02/01/2005	71.45	----	23.34	----	48.11
GMW-O-1	05/02/2005	71.45	----	21.02	----	50.43
GMW-O-1	08/01/2005	71.45	----	20.26	----	51.19
GMW-O-1	10/31/2005	71.45	----	20.21	----	51.24
GMW-O-1	02/27/2006	71.45	----	20.52	----	50.93
GMW-O-1	05/01/2006	71.45	----	20.59	----	50.86
GMW-O-1	09/18/2006	71.45	----	20.93	----	50.52
GMW-O-1	12/04/2006	71.45	----	27.16	----	44.29
GMW-O-1	03/12/2007	71.45	----	21.32	----	50.13
GMW-O-1	04/30/2007	71.45	----	21.40	----	50.05
GMW-O-1	08/28/2007	71.45	----	22.50	----	48.95
GMW-O-1	11/12/2007	71.45	----	21.79	----	49.66
GMW-O-1	02/19/2008	71.45	----	27.25	----	44.20
GMW-O-1	04/14/2008	71.45	----	22.15	----	49.30
GMW-O-1	08/11/2008	71.45	----	22.41	----	49.04
GMW-O-1	10/13/2008	71.45	----	22.45	----	49.00
GMW-O-1	04/20/2009	71.45	----	22.41	----	49.04
GMW-O-1	07/20/2009	71.45	----	23.15	----	48.30
GMW-O-1	10/19/2009	71.45	----	23.39	----	48.06
GMW-O-1	03/15/2010	71.45	----	23.90	----	47.55
GMW-O-1	05/24/2010	71.45	----	23.48	----	47.97
GMW-O-1	05/28/2010	71.45	----	23.47	----	47.98
GMW-O-1	10/04/2010	71.45	----	23.71	----	47.74
GMW-O-1	01/10/2011	71.45	----	24.14	----	47.31
GMW-O-1	04/11/2011	71.45	----	23.17	----	48.28
GMW-O-1	07/11/2011	71.45	----	22.88	----	48.57
GMW-O-1	10/10/2011	71.45	----	22.89	----	48.56
GMW-O-1	01/09/2012	71.45	----	23.35	----	48.10

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-O-1	04/16/2012	71.45	----	23.86	----	47.59
GMW-O-1	07/09/2012	71.45	----	24.19	----	47.26
GMW-O-1	10/15/2012	71.45	----	24.33	----	47.12
GMW-O-1	01/14/2013	71.45	----	24.88	----	46.57
GMW-O-1	04/08/2013	71.45	----	25.04	----	46.41
GMW-O-1	10/07/2013	71.45	----	25.72	----	45.73
GMW-O-1	04/14/2014	71.45	----	26.72	----	44.73
GMW-O-1	10/27/2014	71.45	----	27.28	----	44.17
GMW-O-1	04/20/2015	71.45	----	28.02	----	43.43
GMW-O-1	10/19/2015	71.45	----	28.98	----	42.47
GMW-O-1	04/11/2016	71.45	----	29.71	----	41.74
GMW-O-1	10/3/2016	71.45	----	31.20	----	40.25
GMW-O-1	4/17/2017	71.45	----	29.51	----	41.94
GMW-O-1	10/2/2017	71.45	----	31.20	----	40.25
GMW-O-2	11/20/1996	72.54	----	25.33	----	47.21
GMW-O-2	07/01/1997	72.54	----	25.29	----	47.25
GMW-O-2	12/31/1997	72.54	----	25.32	----	47.22
GMW-O-2	05/01/1998	72.54	----	23.10	----	49.44
GMW-O-2	05/05/1999	72.54	----	23.15	----	49.39
GMW-O-2	08/09/1999	72.54	----	23.39	----	49.15
GMW-O-2	11/15/1999	72.54	----	23.62	----	48.92
GMW-O-2	05/15/2000	72.54	----	23.59	----	48.95
GMW-O-2	11/13/2000	72.54	----	24.11	----	48.43
GMW-O-2	05/07/2001	72.54	----	23.26	----	49.28
GMW-O-2	11/05/2001	72.54	----	23.25	----	49.29
GMW-O-2	04/08/2002	72.54	----	23.52	----	49.02
GMW-O-2	07/29/2002	72.54	----	24.13	----	48.41
GMW-O-2	10/21/2002	72.54	----	24.28	----	48.26
GMW-O-2	01/14/2003	72.54	----	24.23	----	48.31
GMW-O-2	01/27/2003	72.54	----	24.10	----	48.44
GMW-O-2	04/07/2003	72.54	----	24.05	----	48.49
GMW-O-2	07/30/2003	72.54	----	23.75	----	48.79
GMW-O-2	10/06/2003	72.54	----	23.75	----	48.79
GMW-O-2	01/11/2004	72.54	----	24.78	----	47.76
GMW-O-2	01/27/2004	72.54	----	24.09	----	48.45
GMW-O-2	04/19/2004	72.54	----	24.39	----	48.15
GMW-O-2	07/19/2004	72.54	----	24.39	----	48.15
GMW-O-2	02/01/2005	72.54	----	24.06	----	48.48
GMW-O-2	05/02/2005	72.54	----	21.40	----	51.14
GMW-O-2	08/01/2005	72.54	----	20.97	----	51.57
GMW-O-2	10/31/2005	72.54	----	21.22	----	51.32
GMW-O-2	02/27/2006	72.54	----	23.10	----	49.44
GMW-O-2	05/01/2006	72.54	----	21.59	----	50.95
GMW-O-2	09/18/2006	72.54	----	22.08	----	50.46

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-O-2	12/04/2006	72.54	----	22.21	----	50.33
GMW-O-2	03/12/2007	72.54	----	22.50	----	50.04
GMW-O-2	04/30/2007	72.54	----	22.53	----	50.01
GMW-O-2	08/28/2007	72.54	----	22.54	----	50.00
GMW-O-2	11/12/2007	72.54	----	22.96	----	49.58
GMW-O-2	02/19/2008	72.54	----	23.39	----	49.15
GMW-O-2	04/14/2008	72.54	----	23.24	----	49.30
GMW-O-2	08/11/2008	72.54	----	23.57	----	48.97
GMW-O-2	10/13/2008	72.54	----	23.64	----	48.90
GMW-O-2	04/20/2009	72.54	----	23.70	----	48.84
GMW-O-2	07/20/2009	72.54	----	24.40	----	48.14
GMW-O-2	10/19/2009	72.54	----	24.81	----	47.73
GMW-O-2	03/15/2010	72.54	----	25.10	----	47.44
GMW-O-2	05/24/2010	72.54	----	24.48	----	48.06
GMW-O-2	05/28/2010	72.54	----	24.43	----	48.11
GMW-O-2	10/04/2010	72.54	----	24.25	----	48.29
GMW-O-2	01/10/2011	72.54	----	25.13	----	47.41
GMW-O-2	04/11/2011	72.54	----	24.14	----	48.40
GMW-O-2	07/11/2011	72.54	----	23.80	----	48.74
GMW-O-2	10/10/2011	72.54	----	23.98	----	48.56
GMW-O-2	01/09/2012	72.54	----	24.50	----	48.04
GMW-O-2	04/16/2012	72.54	----	24.82	----	47.72
GMW-O-2	07/09/2012	72.54	----	25.21	----	47.33
GMW-O-2	10/15/2012	72.54	----	25.50	----	47.04
GMW-O-2	01/14/2013	72.54	----	26.02	----	46.52
GMW-O-2	04/08/2013	72.54	----	26.12	----	46.42
GMW-O-2	10/07/2013	72.54	----	26.80	----	45.74
GMW-O-2	04/14/2014	72.54	----	27.39	----	45.15
GMW-O-2	10/27/2014	72.54	----	27.90	----	44.64
GMW-O-2	04/20/2015	72.54	----	28.34	----	44.20
GMW-O-2	10/19/2015	72.54	----	29.07	----	43.47
GMW-O-2	04/11/2016	72.54	----	30.20	----	42.34
GMW-O-2	10/3/2016	72.54	----	31.30	----	41.24
GMW-O-2	4/17/2017	72.54	----	30.00	----	42.54
GMW-O-2	10/2/2017	72.54	----	31.39	----	41.15
GMW-O-3	05/28/1996	72.19	----	24.19	----	48.00
GMW-O-3	11/20/1996	72.19	----	24.87	----	47.32
GMW-O-3	07/01/1997	72.19	----	24.77	----	47.42
GMW-O-3	12/31/1997	72.19	----	24.80	----	47.39
GMW-O-3	05/01/1998	72.19	----	22.06	----	50.13
GMW-O-3	02/03/1999	72.19	----	22.07	----	50.12
GMW-O-3	05/07/1999	72.19	----	23.11	----	49.08
GMW-O-3	08/09/1999	72.19	----	23.20	----	48.99
GMW-O-3	11/15/1999	72.19	----	23.40	----	48.79

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Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-O-3	02/29/2000	72.19	----	23.45	----	48.74
GMW-O-3	05/15/2000	72.19	----	23.36	----	48.83
GMW-O-3	08/28/2000	72.19	----	23.95	----	48.24
GMW-O-3	11/13/2000	72.19	----	23.90	----	48.29
GMW-O-3	02/05/2001	72.19	----	23.61	----	48.58
GMW-O-3	05/07/2001	72.19	----	22.81	----	49.38
GMW-O-3	09/18/2001	72.19	----	22.55	----	49.64
GMW-O-3	11/05/2001	72.19	----	22.90	----	49.29
GMW-O-3	01/29/2002	72.19	----	23.18	----	49.01
GMW-O-3	04/08/2002	72.19	----	23.18	----	49.01
GMW-O-3	07/29/2002	72.39	----	24.05	----	48.34
GMW-O-3	10/21/2002	72.19	----	24.07	----	48.12
GMW-O-3	01/14/2003	72.19	----	23.90	----	48.29
GMW-O-3	01/27/2003	72.19	----	23.75	----	48.44
GMW-O-3	04/07/2003	72.19	----	23.53	----	48.66
GMW-O-3	07/30/2003	72.19	----	23.35	----	48.84
GMW-O-3	10/06/2003	72.19	----	23.52	----	48.67
GMW-O-3	01/11/2004	72.19	----	24.67	----	47.52
GMW-O-3	01/27/2004	72.19	----	23.79	----	48.40
GMW-O-3	04/19/2004	72.19	----	24.08	----	48.11
GMW-O-3	07/19/2004	72.19	----	24.13	----	48.06
GMW-O-3	02/01/2005	72.19	----	23.52	----	48.67
GMW-O-3	05/02/2005	72.19	----	20.03	----	52.16
GMW-O-3	08/01/2005	72.19	----	20.18	----	52.01
GMW-O-3	10/31/2005	72.19	----	20.56	----	51.63
GMW-O-3	02/27/2006	72.19	----	21.04	----	51.15
GMW-O-3	05/01/2006	72.19	----	21.09	----	51.10
GMW-O-3	09/18/2006	72.19	----	21.84	----	50.35
GMW-O-3	12/04/2006	72.19	----	22.87	----	49.32
GMW-O-3	03/12/2007	72.19	----	22.22	----	49.97
GMW-O-3	04/30/2007	72.19	----	22.16	----	50.03
GMW-O-3	08/28/2007	72.19	----	21.87	----	50.32
GMW-O-3	11/12/2007	72.19	----	22.52	----	49.67
GMW-O-3	02/19/2008	72.19	----	23.10	----	49.09
GMW-O-3	04/14/2008	72.19	----	22.83	----	49.36
GMW-O-3	08/11/2008	72.19	----	23.26	----	48.93
GMW-O-3	10/13/2008	74.93	----	23.42	----	51.51
GMW-O-3	04/20/2009	72.19	----	23.18	----	49.01
GMW-O-3	07/20/2009	72.19	----	24.21	----	47.98
GMW-O-3	10/19/2009	72.19	----	24.49	----	47.70
GMW-O-3	03/15/2010	72.19	----	24.77	----	47.42
GMW-O-3	05/24/2010	72.19	----	24.00	----	48.19
GMW-O-3	05/28/2010	72.19	----	23.97	----	48.22
GMW-O-3	10/04/2010	72.19	----	24.43	----	47.76

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-O-3	01/10/2011	72.19	----	25.17	----	47.02
GMW-O-3	04/11/2011	72.19	----	23.49	----	48.70
GMW-O-3	07/11/2011	72.19	----	23.36	----	48.83
GMW-O-3	10/10/2011	72.19	----	23.70	----	48.49
GMW-O-3	01/09/2012	72.19	----	24.29	----	47.90
GMW-O-3	04/16/2012	72.19	----	24.72	----	47.47
GMW-O-3	07/09/2012	72.19	----	25.29	----	46.90
GMW-O-3	10/15/2012	72.19	----	25.33	----	46.86
GMW-O-3	01/14/2013	72.19	----	26.32	----	45.87
GMW-O-3	04/08/2013	72.19	----	26.19	----	46.00
GMW-O-3	10/07/2013	72.19	----	26.93	----	45.26
GMW-O-3	04/14/2014	72.19	----	27.40	----	44.79
GMW-O-3	10/27/2014	72.19	----	27.79	----	44.40
GMW-O-3	04/20/2015	72.19	----	28.21	----	43.98
GMW-O-3	10/19/2015	72.19	----	28.94	----	43.25
GMW-O-3	04/11/2016	72.19	----	30.51	----	41.68
GMW-O-3	10/3/2016	72.19	----	31.45	----	40.74
GMW-O-3	4/17/2017	72.19	----	29.40	----	42.79
GMW-O-3	10/2/2017	72.19	----	31.55	----	40.64
GMW-O-4	05/28/1996	71.95	----	23.69	----	48.26
GMW-O-4	11/20/1996	71.95	----	24.37	----	47.58
GMW-O-4	07/01/1997	71.95	----	23.69	----	48.26
GMW-O-4	12/31/1997	71.95	----	24.25	----	47.70
GMW-O-4	05/01/1998	71.95	----	20.89	----	51.06
GMW-O-4	05/06/1999	71.95	----	22.33	----	49.62
GMW-O-4	08/09/1999	71.95	----	22.55	----	49.40
GMW-O-4	11/15/1999	71.95	----	22.91	----	49.04
GMW-O-4	05/15/2000	71.95	----	27.74	----	44.21
GMW-O-4	11/13/2000	71.95	----	23.38	----	48.57
GMW-O-4	05/07/2001	71.95	----	21.86	----	50.09
GMW-O-4	11/05/2001	71.95	----	22.29	----	49.66
GMW-O-4	04/08/2002	71.95	----	22.71	----	49.24
GMW-O-4	10/21/2002	71.95	----	23.56	----	48.39
GMW-O-4	04/07/2003	71.95	----	29.99	----	41.96
GMW-O-4	10/06/2003	71.95	----	22.75	----	49.20
GMW-O-4	01/11/2004	71.95	----	24.02	----	47.93
GMW-O-4	04/19/2004	71.95	----	24.44	----	47.51
GMW-O-4	05/02/2005	71.95	----	18.86	----	53.09
GMW-O-4	10/31/2005	71.95	----	19.91	----	52.04
GMW-O-4	05/01/2006	71.95	----	20.52	----	51.43
GMW-O-4	12/04/2006	71.95	----	21.17	----	50.78
GMW-O-4	04/30/2007	71.95	----	21.74	----	50.21
GMW-O-4	11/12/2007	71.95	----	22.10	----	49.85
GMW-O-4	04/14/2008	71.95	----	22.28	----	49.67

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-O-4	10/13/2008	71.95	----	22.93	----	49.02
GMW-O-4	04/20/2009	71.95	----	25.29	----	46.66
GMW-O-4	10/19/2009	71.95	----	24.14	----	47.81
GMW-O-4	05/24/2010	71.95	----	23.50	----	48.45
GMW-O-4	05/28/2010	71.95	----	23.47	----	48.48
GMW-O-4	10/04/2010	71.95	----	23.97	----	47.98
GMW-O-4	04/11/2011	71.95	----	23.00	----	48.95
GMW-O-4	10/10/2011	71.95	----	23.31	----	48.64
GMW-O-4	04/16/2012	71.95	----	24.45	----	47.50
GMW-O-4	10/15/2012	71.95	----	25.14	----	46.81
GMW-O-4	04/08/2013	71.95	----	25.88	----	46.07
GMW-O-4	10/07/2013	71.95	----	26.51	----	45.44
GMW-O-4	04/14/2014	71.95	----	26.98	----	44.97
GMW-O-4	10/27/2014	71.95	----	27.42	----	44.53
GMW-O-4	04/20/2015	71.95	----	27.79	----	44.16
GMW-O-4	10/19/2015	71.95	----	28.57	----	43.38
GMW-O-4	04/11/2016	71.95	----	29.80	----	42.15
GMW-O-4	10/3/2016	71.95	----	30.90	----	41.05
GMW-O-4	4/17/2017	71.95	----	28.90	----	43.05
GMW-O-4	10/2/2017	71.95	----	30.44	----	41.51
GMW-O-4 (MID)	05/28/1996	72.24	----	31.73	----	40.51
GMW-O-4 (MID)	11/20/1996	72.24	----	31.86	----	40.38
GMW-O-4 (MID)	07/01/1997	72.24	----	29.66	----	42.58
GMW-O-4 (MID)	12/31/1997	72.24	----	29.41	----	42.83
GMW-O-4 (MID)	05/01/1998	72.24	----	26.77	----	45.47
GMW-O-4 (MID)	05/06/1999	72.24	----	27.34	----	44.90
GMW-O-4 (MID)	08/09/1999	72.24	----	28.59	----	43.65
GMW-O-4 (MID)	11/15/1999	72.24	----	28.91	----	43.33
GMW-O-4 (MID)	05/15/2000	72.24	----	28.49	----	43.75
GMW-O-4 (MID)	11/13/2000	72.24	----	29.82	----	42.42
GMW-O-4 (MID)	05/07/2001	72.24	----	29.02	----	43.22
GMW-O-4 (MID)	11/05/2001	72.24	----	30.00	----	42.24
GMW-O-4 (MID)	04/08/2002	72.24	----	29.80	----	42.44
GMW-O-4 (MID)	10/21/2002	72.24	----	31.10	----	41.14
GMW-O-4 (MID)	04/07/2003	72.24	----	30.26	----	41.98
GMW-O-4 (MID)	10/06/2003	72.24	----	31.12	----	41.12
GMW-O-4 (MID)	01/11/2004	72.24	----	32.81	----	39.43
GMW-O-4 (MID)	04/19/2004	72.24	----	37.77	----	34.47
GMW-O-4 (MID)	05/02/2005	72.24	----	29.73	----	42.51
GMW-O-4 (MID)	10/31/2005	72.24	----	30.04	----	42.20
GMW-O-4 (MID)	05/01/2006	72.24	----	28.81	----	43.43
GMW-O-4 (MID)	12/04/2006	72.24	----	29.09	----	43.15
GMW-O-4 (MID)	04/30/2007	72.24	----	28.95	----	43.29
GMW-O-4 (MID)	11/12/2007	72.24	----	29.34	----	42.90

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Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-O-4 (MID)	04/14/2008	72.24	----	30.10	----	42.14
GMW-O-4 (MID)	10/13/2008	72.24	----	31.40	----	40.84
GMW-O-4 (MID)	04/20/2009	72.24	----	31.15	----	41.09
GMW-O-4 (MID)	10/19/2009	72.24	----	32.71	----	39.53
GMW-O-4 (MID)	05/24/2010	72.24	----	31.92	----	40.32
GMW-O-4 (MID)	05/28/2010	72.24	----	31.95	----	40.29
GMW-O-4 (MID)	04/11/2011	72.24	----	31.03	----	41.21
GMW-O-4 (MID)	10/10/2011	72.24	----	31.36	----	40.88
GMW-O-4 (MID)	04/16/2012	72.24	----	31.35	----	40.89
GMW-O-4 (MID)	10/15/2012	72.24	----	32.25	----	39.99
GMW-O-4 (MID)	04/08/2013	72.24	----	32.81	----	39.43
GMW-O-5	05/28/1996	72.36	----	24.10	----	48.26
GMW-O-5	11/20/1996	72.36	----	24.88	----	47.48
GMW-O-5	07/01/1997	72.36	----	24.13	----	48.23
GMW-O-5	12/31/1997	72.36	----	24.72	----	47.64
GMW-O-5	05/01/1998	72.36	----	21.22	----	51.14
GMW-O-5	02/03/1999	72.36	----	22.11	----	50.25
GMW-O-5	05/03/1999	72.36	----	22.90	----	49.46
GMW-O-5	08/09/1999	72.36	----	23.14	----	49.22
GMW-O-5	11/15/1999	72.36	----	23.50	----	48.86
GMW-O-5	02/29/2000	72.36	----	23.55	----	48.81
GMW-O-5	05/15/2000	72.36	----	23.33	----	49.03
GMW-O-5	08/28/2000	72.36	----	23.95	----	48.41
GMW-O-5	11/13/2000	72.36	----	23.98	----	48.38
GMW-O-5	02/05/2001	72.36	----	23.66	----	48.70
GMW-O-5	05/07/2001	72.36	----	22.32	----	50.04
GMW-O-5	09/18/2001	72.36	----	22.47	----	49.89
GMW-O-5	11/05/2001	72.36	----	22.79	----	49.57
GMW-O-5	01/29/2002	72.36	----	22.83	----	49.53
GMW-O-5	04/08/2002	72.36	----	23.25	----	49.11
GMW-O-5	10/21/2002	72.36	----	24.10	----	48.26
GMW-O-5	01/14/2003	72.36	----	23.98	----	48.38
GMW-O-5	04/07/2003	72.36	----	23.45	----	48.91
GMW-O-5	10/06/2003	72.36	----	23.28	----	49.08
GMW-O-5	01/11/2004	72.36	----	24.57	----	47.79
GMW-O-5	04/19/2004	72.36	----	23.94	----	48.42
GMW-O-5	05/02/2005	72.36	----	19.09	----	53.27
GMW-O-5	10/31/2005	72.36	----	20.41	----	51.95
GMW-O-5	05/01/2006	72.36	----	20.96	----	51.40
GMW-O-5	12/04/2006	72.36	----	21.86	----	50.50
GMW-O-5	04/30/2007	72.36	----	22.18	----	50.18
GMW-O-5	08/29/2007	72.36	----	28.19	----	44.17
GMW-O-5	11/12/2007	72.36	----	22.61	----	49.75
GMW-O-5	04/14/2008	72.36	----	22.72	----	49.64

**APPENDIX D
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Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-O-5	10/13/2008	72.36	----	23.42	----	48.94
GMW-O-5	04/20/2009	72.36	----	23.34	----	49.02
GMW-O-5	10/19/2009	72.36	----	25.21	----	47.15
GMW-O-5	05/24/2010	72.36	----	24.02	----	48.34
GMW-O-5	05/28/2010	72.36	----	23.90	----	48.46
GMW-O-5	10/04/2010	72.36	----	24.52	----	47.84
GMW-O-5	04/11/2011	72.36	----	23.46	----	48.90
GMW-O-5	10/10/2011	72.36	----	23.93	----	48.43
GMW-O-5	04/16/2012	72.36	----	29.00	----	43.36
GMW-O-5	10/15/2012	72.36	----	25.68	----	46.68
GMW-O-5	04/08/2013	72.36	----	26.50	----	45.86
GMW-O-5	10/07/2013	72.36	----	27.00	----	45.36
GMW-O-5	04/14/2014	72.36	----	27.53	----	44.83
GMW-O-5	10/27/2014	72.36	----	27.95	----	44.41
GMW-O-5	04/20/2015	72.36	----	28.31	----	44.05
GMW-O-5	10/19/2015	72.36	----	29.09	----	43.27
GMW-O-5	04/11/2016	72.36	----	30.30	----	42.06
GMW-O-5	10/3/2016	72.36	----	31.43	----	40.93
GMW-O-5	4/17/2017	72.36	----	29.23	----	43.13
GMW-O-5	10/2/2017	72.36	----	31.08	----	41.28
GMW-O-6	05/28/1996	71.41	----	23.19	----	48.22
GMW-O-6	11/20/1996	71.41	----	23.59	----	47.82
GMW-O-6	07/01/1997	71.41	----	23.28	----	48.13
GMW-O-6	12/31/1997	71.41	----	23.78	----	47.63
GMW-O-6	05/01/1998	71.41	----	20.81	----	50.60
GMW-O-6	05/05/1999	71.41	----	21.24	----	50.17
GMW-O-6	08/09/1999	71.41	----	21.58	----	49.83
GMW-O-6	11/15/1999	71.41	----	21.98	----	49.43
GMW-O-6	05/15/2000	71.41	----	21.86	----	49.55
GMW-O-6	11/13/2000	71.41	----	27.25	----	44.16
GMW-O-6	05/07/2001	71.41	----	21.23	----	50.18
GMW-O-6	11/05/2001	71.41	----	21.55	----	49.86
GMW-O-6	04/08/2002	71.41	----	21.95	----	49.46
GMW-O-6	10/21/2002	71.41	----	22.67	----	48.74
GMW-O-6	01/14/2003	71.41	----	22.82	----	48.59
GMW-O-6	04/07/2003	71.41	----	22.49	----	48.92
GMW-O-6	10/06/2003	71.41	----	22.02	----	49.39
GMW-O-6	01/11/2004	71.41	----	23.01	----	48.40
GMW-O-6	04/19/2004	71.41	----	22.69	----	48.72
GMW-O-6	05/02/2005	71.41	----	19.45	----	51.96
GMW-O-6	10/31/2005	71.41	----	19.74	----	51.67
GMW-O-6	05/01/2006	71.41	----	20.33	----	51.08
GMW-O-6	12/04/2006	71.41	----	20.89	----	50.52
GMW-O-6	04/30/2007	71.41	----	21.23	----	50.18

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Defense Fuel Support Point Norwalk
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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-O-6	11/12/2007	71.41	----	21.55	----	49.86
GMW-O-6	04/14/2008	71.41	----	21.63	----	49.78
GMW-O-6	10/13/2008	71.41	----	22.20	----	49.21
GMW-O-6	04/20/2009	71.41	----	22.18	----	49.23
GMW-O-6	10/19/2009	71.41	----	22.98	----	48.43
GMW-O-6	05/24/2010	71.41	----	22.77	----	48.64
GMW-O-6	05/28/2010	71.41	----	22.94	----	48.47
GMW-O-6	10/04/2010	71.41	----	23.15	----	48.26
GMW-O-6	04/11/2011	71.41	----	22.48	----	48.93
GMW-O-6	10/10/2011	71.41	----	22.45	----	48.96
GMW-O-6	04/16/2012	71.41	----	23.18	----	48.23
GMW-O-6	10/15/2012	71.41	----	23.41	----	48.00
GMW-O-6	04/08/2013	71.41	----	24.36	----	47.05
GMW-O-6	10/07/2013	71.41	----	25.31	----	46.10
GMW-O-6	04/28/2014	71.41	----	25.98	----	45.43
GMW-O-6	10/27/2014	71.41	----	26.27	----	45.14
GMW-O-6	04/20/2015	71.41	----	26.10	----	45.31
GMW-O-6	10/19/2015	71.41	----	27.50	----	43.91
GMW-O-6	04/11/2016	71.41	----	28.41	----	43.00
GMW-O-6	10/3/2016	71.41	----	29.00	----	42.41
GMW-O-6	4/17/2017	71.41	----	28.60	----	42.81
GMW-O-6	10/2/2017	71.41	----	29.11	----	42.30
GMW-O-7	05/07/1999	70.98	----	20.17	----	50.81
GMW-O-7	08/09/1999	70.98	----	20.36	----	50.62
GMW-O-7	11/15/1999	70.98	----	20.76	----	50.22
GMW-O-7	05/15/2000	70.98	----	23.52	----	47.46
GMW-O-7	11/13/2000	70.98	----	21.18	----	49.80
GMW-O-7	05/07/2001	70.98	----	20.21	----	50.77
GMW-O-7	11/05/2001	70.98	----	20.51	----	50.47
GMW-O-7	04/08/2002	70.98	----	21.38	----	49.60
GMW-O-7	10/21/2002	70.98	----	21.59	----	49.39
GMW-O-7	04/07/2003	70.98	----	21.55	----	49.43
GMW-O-7	10/06/2003	70.98	----	21.20	----	49.78
GMW-O-7	01/11/2004	70.98	----	22.16	----	48.82
GMW-O-7	04/19/2004	70.98	----	21.75	----	49.23
GMW-O-7	05/02/2005	70.98	----	18.83	----	52.15
GMW-O-7	10/31/2005	70.98	----	19.16	----	51.82
GMW-O-7	05/01/2006	70.98	----	19.42	----	51.56
GMW-O-7	12/04/2006	70.98	----	19.92	----	51.06
GMW-O-7	04/30/2007	70.98	----	20.32	----	50.66
GMW-O-7	11/12/2007	70.98	----	20.93	----	50.05
GMW-O-7	10/13/2008	70.98	----	21.43	----	49.55
GMW-O-7	04/20/2009	70.98	----	21.49	----	49.49
GMW-O-7	10/19/2009	70.98	----	21.91	----	49.07

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Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-O-7	05/24/2010	70.98	----	21.90	----	49.08
GMW-O-7	05/28/2010	70.98	----	21.95	----	49.03
GMW-O-7	10/04/2010	70.98	----	22.25	----	48.73
GMW-O-7	04/11/2011	70.98	----	21.59	----	49.39
GMW-O-7	10/10/2011	70.98	----	21.70	----	49.28
GMW-O-7	04/16/2012	70.98	----	22.40	----	48.58
GMW-O-7	10/15/2012	70.98	----	22.83	----	48.15
GMW-O-7	04/08/2013	70.98	----	23.90	----	47.08
GMW-O-7	10/07/2013	70.98	----	24.12	----	46.86
GMW-O-7	04/14/2014	70.98	----	24.90	----	46.08
GMW-O-7	10/27/2014	70.98	----	25.59	----	45.39
GMW-O-7	04/20/2015	70.98	----	26.09	----	44.89
GMW-O-7	10/19/2015	70.98	----	26.63	----	44.35
GMW-O-7	04/11/2016	70.98	----	27.40	----	43.58
GMW-O-7	10/3/2016	70.98	----	28.10	----	42.88
GMW-O-7	4/17/2017	70.98	----	28.40	----	42.58
GMW-O-7	10/2/2017	70.98	----	28.18	----	42.80
GMW-O-8	05/28/1996	70.91	----	23.35	----	47.56
GMW-O-8	11/20/1996	70.91	----	23.49	----	47.42
GMW-O-8	07/01/1997	70.91	----	23.25	----	47.66
GMW-O-8	12/31/1997	70.91	----	23.89	----	47.02
GMW-O-8	05/01/1998	70.91	----	21.52	----	49.39
GMW-O-8	05/03/1999	70.91	----	21.00	----	49.91
GMW-O-8	08/09/1999	70.91	----	21.20	----	49.71
GMW-O-8	11/15/1999	70.91	----	21.48	----	49.43
GMW-O-8	05/15/2000	70.91	----	21.60	----	49.31
GMW-O-8	11/13/2000	70.91	----	29.81	----	41.10
GMW-O-8	05/07/2001	70.91	----	21.30	----	49.61
GMW-O-8	11/05/2001	70.91	----	21.13	----	49.78
GMW-O-8	04/08/2002	70.91	----	21.36	----	49.55
GMW-O-8	10/21/2002	70.91	----	22.00	----	48.91
GMW-O-8	01/14/2003	70.91	----	22.25	----	48.66
GMW-O-8	04/07/2003	70.91	----	22.19	----	48.72
GMW-O-8	10/06/2003	70.91	----	21.76	----	49.15
GMW-O-8	01/11/2004	70.91	----	22.58	----	48.33
GMW-O-8	04/19/2004	70.91	----	22.33	----	48.58
GMW-O-8	05/02/2005	70.91	----	20.09	----	50.82
GMW-O-8	10/31/2005	70.91	----	19.38	----	51.53
GMW-O-8	05/01/2006	70.91	----	19.77	----	51.14
GMW-O-8	12/04/2006	70.91	----	20.17	----	50.74
GMW-O-8	04/30/2007	70.91	----	20.54	----	50.37
GMW-O-8	11/12/2007	70.91	----	20.91	----	50.00
GMW-O-8	04/14/2008	70.91	----	21.27	----	49.64
GMW-O-8	10/13/2008	70.91	----	21.57	----	49.34

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-O-8	04/20/2009	70.91	----	21.80	----	49.11
GMW-O-8	10/19/2009	70.91	----	22.41	----	48.50
GMW-O-8	05/24/2010	70.91	----	22.50	----	48.41
GMW-O-8	05/28/2010	70.91	----	22.41	----	48.50
GMW-O-8	10/04/2010	70.91	----	22.60	----	48.31
GMW-O-8	04/11/2011	70.91	----	22.24	----	48.67
GMW-O-8	10/10/2011	70.91	----	21.71	----	49.20
GMW-O-8	04/16/2012	70.91	----	22.54	----	48.37
GMW-O-8	10/15/2012	70.91	----	22.87	----	48.04
GMW-O-8	04/08/2013	70.91	----	23.64	----	47.27
GMW-O-8	10/07/2013	70.91	----	24.53	----	46.38
GMW-O-8	04/14/2014	70.91	----	25.21	----	45.70
GMW-O-8	10/27/2014	70.91	----	25.74	----	45.17
GMW-O-8	04/20/2015	70.91	----	26.39	----	44.52
GMW-O-8	10/19/2015	70.91	----	27.53	----	43.38
GMW-O-8	04/11/2016	70.91	----	28.47	----	42.44
GMW-O-8	10/3/2016	70.91	----	29.51	----	41.40
GMW-O-8	4/17/2017	70.91	----	29.20	----	41.71
GMW-O-8	10/2/2017	70.91	----	29.85	----	41.06
GMW-O-9	05/28/1996	73.50	----	25.93	----	47.57
GMW-O-9	11/20/1996	73.50	----	26.53	----	46.97
GMW-O-9	07/01/1997	73.50	----	26.90	----	46.60
GMW-O-9	12/31/1997	73.50	----	26.30	----	47.20
GMW-O-9	05/01/1998	73.50	----	24.05	----	49.45
GMW-O-9	05/04/1999	73.50	----	24.39	----	49.11
GMW-O-9	08/09/1999	73.50	----	24.96	----	48.54
GMW-O-9	11/15/1999	73.50	----	24.91	----	48.59
GMW-O-9	05/15/2000	73.50	----	24.93	----	48.57
GMW-O-9	11/13/2000	73.50	----	25.61	----	47.89
GMW-O-9	05/07/2001	73.50	----	24.54	----	48.96
GMW-O-9	11/05/2001	73.50	----	24.55	----	48.95
GMW-O-9	04/08/2002	73.50	----	30.07	----	43.43
GMW-O-9	10/21/2002	73.50	----	25.62	----	47.88
GMW-O-9	04/07/2003	73.50	----	25.13	----	48.37
GMW-O-9	10/06/2003	73.50	----	24.92	----	48.58
GMW-O-9	01/11/2004	73.50	----	26.12	----	47.38
GMW-O-9	04/19/2004	73.50	----	25.74	----	47.76
GMW-O-9	05/02/2005	73.50	----	22.61	----	50.89
GMW-O-9	10/31/2005	73.50	----	22.14	----	51.36
GMW-O-9	05/05/2006	73.50	----	23.61	----	49.89
GMW-O-9	12/04/2006	73.50	----	23.84	----	49.66
GMW-O-9	04/30/2007	73.50	----	23.52	----	49.98
GMW-O-9	11/12/2007	73.50	----	23.94	----	49.56
GMW-O-9	04/14/2008	73.50	----	24.31	----	49.19

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-O-9	10/13/2008	73.50	----	24.71	----	48.79
GMW-O-9	04/20/2009	73.50	----	24.86	----	48.64
GMW-O-9	10/19/2009	73.50	----	25.86	----	47.64
GMW-O-9	05/24/2010	73.50	----	25.57	----	47.93
GMW-O-9	05/28/2010	73.50	----	25.50	----	48.00
GMW-O-9	10/04/2010	73.50	----	25.89	----	47.61
GMW-O-9	01/10/2011	73.50	----	26.69	----	46.81
GMW-O-9	04/11/2011	73.50	----	25.17	----	48.33
GMW-O-9	10/10/2011	73.50	----	25.16	----	48.34
GMW-O-9	01/09/2012	73.50	----	26.02	----	47.48
GMW-O-9	04/16/2012	73.50	----	26.13	----	47.37
GMW-O-9	07/09/2012	73.50	----	26.91	----	46.59
GMW-O-9	10/15/2012	73.50	----	26.74	----	46.76
GMW-O-9	01/14/2013	73.50	----	26.82	----	46.68
GMW-O-9	04/08/2013	73.50	----	27.63	----	45.87
GMW-O-9	10/07/2013	73.50	----	28.31	----	45.19
GMW-O-9	04/14/2014	73.50	----	28.81	----	44.69
GMW-O-9	10/27/2014	73.50	----	29.24	----	44.26
GMW-O-9	04/20/2015	73.50	----	29.75	----	43.75
GMW-O-9	10/19/2015	73.50	----	30.33	----	43.17
GMW-O-9	04/11/2016	73.50	----	31.62	----	41.88
GMW-O-9	10/3/2016	73.50	----	33.03	----	40.47
GMW-O-9	4/17/2017	73.50	----	31.25	----	42.25
GMW-O-9	10/2/2017	73.50	----	33.25	----	40.25
GMW-O-10	05/28/1996	73.98	----	26.49	----	47.49
GMW-O-10	11/20/1996	73.98	----	27.10	----	46.88
GMW-O-10	07/01/1997	73.98	----	28.23	----	45.75
GMW-O-10	12/31/1997	73.98	----	27.94	----	46.04
GMW-O-10	05/01/1998	73.98	----	24.56	----	49.42
GMW-O-10	05/07/1999	73.98	----	25.10	----	48.88
GMW-O-10	08/09/1999	73.98	----	26.10	----	47.88
GMW-O-10	11/15/1999	73.98	----	25.67	----	48.31
GMW-O-10	11/13/2000	73.98	----	26.54	----	47.44
GMW-O-10	05/07/2001	73.98	----	25.23	----	48.75
GMW-O-10	11/05/2001	73.98	----	25.22	----	48.76
GMW-O-10	04/08/2002	73.98	----	25.35	----	48.63
GMW-O-10	10/21/2002	73.98	----	26.39	----	47.59
GMW-O-10	04/07/2003	73.98	----	25.64	----	48.34
GMW-O-10	07/30/2003	73.98	----	25.60	----	48.38
GMW-O-10	10/06/2003	73.98	----	25.67	----	48.31
GMW-O-10	01/11/2004	73.98	----	26.96	----	47.02
GMW-O-10	04/19/2004	73.98	----	26.60	----	47.38
GMW-O-10	05/02/2005	73.98	----	23.71	----	50.27
GMW-O-10	10/31/2005	73.98	----	22.65	----	51.33

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-O-10	05/05/2006	73.98	----	22.33	----	51.65
GMW-O-10	12/04/2006	73.98	----	23.24	----	50.74
GMW-O-10	04/30/2007	73.98	----	24.07	----	49.91
GMW-O-10	11/12/2007	73.98	----	24.45	----	49.53
GMW-O-10	04/14/2008	73.98	----	24.83	----	49.15
GMW-O-10	08/11/2008	73.98	----	25.22	----	48.76
GMW-O-10	10/13/2008	73.98	----	25.25	----	48.73
GMW-O-10	04/20/2009	73.98	----	25.58	----	48.40
GMW-O-10	10/19/2009	73.98	----	26.72	----	47.26
GMW-O-10	05/24/2010	73.98	----	26.92	----	47.06
GMW-O-10	05/28/2010	73.98	----	29.10	----	44.88
GMW-O-10	10/04/2010	73.98	----	26.48	----	47.50
GMW-O-10	01/10/2011	73.98	----	27.30	----	46.68
GMW-O-10	04/11/2011	73.98	----	25.72	----	48.26
GMW-O-10	10/10/2011	73.98	----	26.29	----	47.69
GMW-O-10	01/09/2012	73.98	----	26.82	----	47.16
GMW-O-10	04/16/2012	73.98	----	26.90	----	47.08
GMW-O-10	07/09/2012	73.98	----	27.81	----	46.17
GMW-O-10	10/15/2012	73.98	----	28.40	----	45.58
GMW-O-10	01/14/2013	73.98	----	28.57	----	45.41
GMW-O-10	04/08/2013	73.98	----	26.31	----	47.67
GMW-O-10	10/07/2013	73.98	----	29.17	----	44.81
GMW-O-10	04/14/2014	73.98	----	29.48	----	44.50
GMW-O-10	10/27/2014	73.98	----	29.93	----	44.05
GMW-O-10	04/20/2015	73.98	----	30.52	----	43.46
GMW-O-10	10/19/2015	73.98	----	31.17	----	42.81
GMW-O-10	04/11/2016	73.98	----	32.23	----	41.75
GMW-O-10	10/3/2016	73.98	----	33.13	----	40.85
GMW-O-10	4/17/2017	73.98	----	31.47	----	42.51
GMW-O-10	10/2/2017	73.98	----	34.96	----	39.02
GMW-O-11	04/08/2002	74.17	----	23.96	----	50.21
GMW-O-11	04/19/2004	74.17	----	27.40	----	46.77
GMW-O-11	05/02/2005	74.17	22.46	22.48	0.02	NC
GMW-O-11	10/31/2005	74.17	21.73	21.92	0.19	NC
GMW-O-11	05/01/2006	74.17	----	21.51	----	52.66
GMW-O-11	12/04/2006	74.17	----	22.38	----	51.79
GMW-O-11	04/30/2007	74.17	23.90	23.91	0.01	NC
GMW-O-11	11/12/2007	74.17	----	24.40	----	49.77
GMW-O-11	08/15/2008	74.17	----	29.30	----	44.87
GMW-O-11	10/17/2008	74.17	----	24.45	----	49.72
GMW-O-11	04/21/2009	74.17	25.34	25.36	0.02	NC
GMW-O-11	10/04/2010	74.17	----	30.00	----	44.17
GMW-O-11	04/13/2011	74.17	----	24.19	----	49.98
GMW-O-11	10/10/2011	74.17	----	24.38	----	49.79

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-O-11	10/15/2012	74.17	----	28.12	----	46.05
GMW-O-11	10/07/2013	74.17	27.69	31.19	3.50	NC
GMW-O-11	04/25/2014	74.17	28.62	28.96	0.34	NC
GMW-O-11	10/27/2014	74.17	28.89	31.28	2.39	NC
GMW-O-11	11/03/2014	74.17	27.83	32.34	4.51	NC
GMW-O-11	04/22/2015	74.17	28.10	31.54	3.44	NC
GMW-O-11	10/22/2015	74.17	29.23	33.08	3.85	NC
GMW-O-11	04/12/2016	74.17	33.12	33.33	0.21	NC
GMW-O-11	10/6/2016	74.17	32.71	32.72	0.01	NC
GMW-O-11	4/17/2017	74.17	29.96	30.12	0.16	NC
GMW-O-11	10/2/2017	74.17	----	33.54	----	40.63
GMW-O-12	12/31/1997	73.49	25.45	31.02	5.57	NC
GMW-O-12	05/01/1998	73.49	19.94	22.69	2.75	NC
GMW-O-12	05/04/1999	73.49	22.99	24.63	1.64	NC
GMW-O-12	11/13/2000	73.49	----	0.70	----	72.79
GMW-O-12	05/07/2001	73.49	----	22.28	----	51.21
GMW-O-12	05/10/2001	73.49	----	24.25	----	49.24
GMW-O-12	11/05/2001	73.49	----	22.63	----	50.86
GMW-O-12	04/08/2002	73.49	----	23.81	----	49.68
GMW-O-12	10/06/2003	73.49	----	24.82	----	48.67
GMW-O-12	04/19/2004	73.49	----	26.91	----	46.58
GMW-O-12	05/02/2005	73.49	----	21.79	----	51.70
GMW-O-12	10/31/2005	73.49	----	26.67	----	46.82
GMW-O-12	05/01/2006	73.49	----	21.80	----	51.69
GMW-O-12	12/04/2006	73.49	----	22.58	----	50.91
GMW-O-12	04/30/2007	73.49	----	22.81	----	50.68
GMW-O-12	11/12/2007	73.49	----	23.13	----	50.36
GMW-O-12	04/14/2008	73.49	----	23.36	----	50.13
GMW-O-12	10/13/2008	73.49	----	24.20	----	49.29
GMW-O-12	04/20/2009	73.49	----	24.21	----	49.28
GMW-O-12	10/19/2009	73.49	----	25.08	----	48.41
GMW-O-12	05/24/2010	73.49	----	24.80	----	48.69
GMW-O-12	05/28/2010	73.49	----	24.74	----	48.75
GMW-O-12	10/04/2010	73.49	25.20	25.31	0.11	NC
GMW-O-12	04/11/2011	73.49	----	24.04	----	49.45
GMW-O-12	10/10/2011	73.49	----	24.68	----	48.81
GMW-O-12	01/09/2012	73.49	----	25.12	----	48.37
GMW-O-12	04/16/2012	73.49	----	25.40	----	48.09
GMW-O-12	07/09/2012	73.49	----	26.96	----	46.53
GMW-O-12	10/15/2012	73.49	25.44	25.48	0.04	NC
GMW-O-12	01/14/2013	73.49	25.58	25.62	0.04	NC
GMW-O-12	04/08/2013	73.49	26.51	26.60	0.09	NC
GMW-O-12	10/07/2013	73.49	27.28	27.34	0.06	NC
GMW-O-12	04/14/2014	73.49	26.80	30.34	3.54	NC

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-O-12	10/27/2014	73.49	26.90	31.28	4.38	NC
GMW-O-12	04/20/2015	73.49	26.91	33.35	6.44	NC
GMW-O-12	10/19/2015	73.49	27.82	34.65	6.83	NC
GMW-O-12	10/30/2015	73.49	28.11	39.38	11.27	NC
GMW-O-12	04/11/2016	73.49	26.86	33.35	6.49	NC
GMW-O-12	10/3/2016	73.49	31.90	34.20	2.30	NC
GMW-O-12	4/17/2017	73.49	28.70	32.90	4.20	NC
GMW-O-12	10/2/2017	73.49	32.00	33.20	1.20	NC
GMW-O-13	05/28/1996	74.19	25.84	27.69	1.85	NC
GMW-O-13	11/20/1996	74.19	26.48	28.92	2.44	NC
GMW-O-13	07/01/1997	74.19	26.55	28.87	2.32	NC
GMW-O-13	12/31/1997	74.19	26.83	28.91	2.08	NC
GMW-O-13	05/01/1998	74.19	22.55	23.06	0.51	NC
GMW-O-13	05/04/1999	74.19	24.46	25.78	1.32	NC
GMW-O-13	08/09/1999	74.19	-----	25.20	-----	48.99
GMW-O-13	04/08/2002	74.19	-----	25.47	-----	48.72
GMW-O-14	05/28/1996	74.08	-----	26.03	-----	48.05
GMW-O-14	11/20/1996	74.08	-----	25.52	-----	48.56
GMW-O-14	07/01/1997	74.08	-----	26.39	-----	47.69
GMW-O-14	12/31/1997	74.08	25.03	25.06	0.03	NC
GMW-O-14	05/01/1998	74.08	-----	23.72	-----	50.36
GMW-O-14	08/09/1999	74.08	-----	25.04	-----	49.04
GMW-O-14	05/15/2000	74.08	-----	26.67	-----	47.41
GMW-O-14	11/13/2000	74.08	-----	25.85	-----	48.23
GMW-O-14	05/07/2001	74.08	-----	24.34	-----	49.74
GMW-O-14	11/05/2001	74.08	-----	24.65	-----	49.43
GMW-O-14	04/08/2002	74.08	-----	25.19	-----	48.89
GMW-O-14	07/29/2002	74.08	-----	25.65	-----	48.43
GMW-O-14	10/21/2002	74.08	-----	26.00	-----	48.08
GMW-O-14	01/27/2003	74.08	-----	25.64	-----	48.44
GMW-O-14	04/07/2003	74.08	-----	25.36	-----	48.72
GMW-O-14	07/30/2003	74.08	-----	25.14	-----	48.94
GMW-O-14	10/06/2003	74.08	-----	25.12	-----	48.96
GMW-O-14	01/11/2004	74.08	-----	26.31	-----	47.77
GMW-O-14	01/27/2004	74.08	-----	25.58	-----	48.50
GMW-O-14	04/19/2004	74.08	-----	26.02	-----	48.06
GMW-O-14	07/19/2004	74.08	-----	26.01	-----	48.07
GMW-O-14	02/01/2005	74.08	-----	25.08	-----	49.00
GMW-O-14	05/02/2005	74.08	-----	21.41	-----	52.67
GMW-O-14	08/01/2005	74.08	-----	21.39	-----	52.69
GMW-O-14	10/31/2005	74.08	-----	21.90	-----	52.18
GMW-O-14	02/27/2006	74.08	-----	22.64	-----	51.44
GMW-O-14	05/01/2006	74.08	-----	22.58	-----	51.50
GMW-O-14	09/18/2006	74.08	-----	23.18	-----	50.90

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-O-14	12/04/2006	74.08	----	23.36	----	50.72
GMW-O-14	03/12/2007	74.08	----	23.81	----	50.27
GMW-O-14	04/30/2007	74.08	----	23.57	----	50.51
GMW-O-14	08/28/2007	74.08	----	22.45	----	51.63
GMW-O-14	11/12/2007	74.08	----	23.97	----	50.11
GMW-O-14	02/19/2008	74.08	----	24.84	----	49.24
GMW-O-14	04/14/2008	74.08	----	24.53	----	49.55
GMW-O-14	08/11/2008	74.08	----	25.07	----	49.01
GMW-O-14	10/13/2008	74.08	----	25.20	----	48.88
GMW-O-14	04/20/2009	74.08	----	25.33	----	48.75
GMW-O-14	07/20/2009	74.08	----	26.31	----	47.77
GMW-O-14	10/19/2009	74.08	----	26.24	----	47.84
GMW-O-14	03/15/2010	74.08	----	26.71	----	47.37
GMW-O-14	05/24/2010	74.08	----	26.11	----	47.97
GMW-O-14	05/28/2010	74.08	----	26.11	----	47.97
GMW-O-14	10/04/2010	74.08	----	26.04	----	48.04
GMW-O-14	01/10/2011	74.08	----	27.12	----	46.96
GMW-O-14	04/11/2011	74.08	----	25.25	----	48.83
GMW-O-14	07/11/2011	74.08	----	24.77	----	49.31
GMW-O-14	10/10/2011	74.08	----	25.16	----	48.92
GMW-O-14	01/09/2012	74.08	----	26.14	----	47.94
GMW-O-14	04/16/2012	74.08	----	26.94	----	47.14
GMW-O-14	07/09/2012	74.08	----	27.51	----	46.57
GMW-O-14	10/15/2012	74.08	----	27.96	----	46.12
GMW-O-14	01/14/2013	74.08	----	28.32	----	45.76
GMW-O-14	04/08/2013	74.08	----	28.83	----	45.25
GMW-O-14	10/07/2013	74.08	----	28.84	----	45.24
GMW-O-14	04/14/2014	74.08	----	29.36	----	44.72
GMW-O-14	10/27/2014	74.08	----	29.84	----	44.24
GMW-O-14	04/20/2015	74.08	----	30.32	----	43.76
GMW-O-14	10/19/2015	74.08	----	30.98	----	43.10
GMW-O-14	04/11/2016	74.08	----	32.34	----	41.74
GMW-O-14	10/3/2016	74.08	----	34.08	----	40.00
GMW-O-14	4/17/2017	74.08	----	31.15	----	42.93
GMW-O-14	10/2/2017	74.08	----	33.75	----	40.33
GMW-O-15	05/28/1996	74.23	24.19	30.19	6.00	NC
GMW-O-15	11/20/1996	74.23	25.30	30.52	5.22	NC
GMW-O-15	05/15/2000	74.23	----	27.10	----	47.13
GMW-O-15	05/07/2001	74.23	22.62	24.58	1.96	NC
GMW-O-15	04/08/2002	74.23	23.02	27.51	4.49	NC
GMW-O-15	10/21/2002	74.23	24.52	24.71	0.19	NC
GMW-O-15	05/02/2005	74.23	21.01	21.15	0.14	NC
GMW-O-15	10/31/2005	74.23	22.10	22.25	0.15	NC
GMW-O-15	05/22/2006	74.23	21.89	22.31	0.42	NC

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-O-15	12/04/2006	74.23	22.86	22.91	0.05	NC
GMW-O-15	04/30/2007	74.23	23.30	23.41	0.11	NC
GMW-O-15	11/12/2007	74.23	23.85	23.95	0.10	NC
GMW-O-15	04/14/2008	74.23	-----	23.64	-----	50.59
GMW-O-15	08/08/2008	74.23	-----	24.60	-----	49.63
GMW-O-15	08/11/2008	74.23	24.34	24.40	0.06	NC
GMW-O-15	10/16/2008	74.23	-----	24.53	-----	49.70
GMW-O-15	04/20/2009	74.23	24.61	24.66	0.05	NC
GMW-O-15	07/20/2009	74.23	24.94	24.99	0.05	NC
GMW-O-15	10/19/2009	74.23	25.43	25.55	0.12	NC
GMW-O-15	04/16/2010	74.23	-----	23.10	-----	51.13
GMW-O-15	05/24/2010	74.23	-----	25.67	-----	48.56
GMW-O-15	05/28/2010	74.23	-----	25.35	-----	48.88
GMW-O-15	06/22/2010	74.23	-----	25.81	-----	48.42
GMW-O-15	10/04/2010	74.23	25.80	25.85	0.05	NC
GMW-O-15	12/22/2010	74.23	-----	26.31	-----	47.92
GMW-O-15	01/10/2011	74.23	-----	25.97	-----	48.26
GMW-O-15	04/12/2011	74.23	22.53	22.55	0.02	NC
GMW-O-15	10/10/2011	74.23	23.22	23.79	0.57	NC
GMW-O-15	12/21/2011	74.23	-----	31.13	-----	43.10
GMW-O-15	01/09/2012	74.23	-----	27.67	-----	46.56
GMW-O-15	02/23/2012	74.23	-----	31.82	-----	42.41
GMW-O-15	03/28/2012	74.23	-----	30.30	-----	43.93
GMW-O-15	04/16/2012	74.23	26.51	26.56	0.05	NC
GMW-O-15	05/25/2012	74.23	-----	26.64	-----	47.59
GMW-O-15	06/15/2012	74.23	-----	26.93	-----	47.30
GMW-O-15	07/09/2012	74.23	-----	25.47	-----	48.76
GMW-O-15	09/26/2012	74.23	-----	30.64	-----	43.59
GMW-O-15	10/15/2012	74.23	-----	31.82	-----	42.41
GMW-O-15	12/26/2012	74.23	-----	27.41	-----	46.82
GMW-O-15	01/14/2013	74.23	-----	27.62	-----	46.61
GMW-O-15	04/26/2013	74.23	-----	27.90	-----	46.33
GMW-O-15	10/07/2013	74.23	28.26	29.03	0.77	NC
GMW-O-15	04/18/2014	74.23	28.08	28.40	0.32	NC
GMW-O-15	10/27/2014	74.23	28.30	31.89	3.59	NC
GMW-O-15	04/20/2015	74.23	28.82	31.93	3.11	NC
GMW-O-15	10/19/2015	74.23	28.89	31.91	3.02	NC
GMW-O-15	04/12/2016	74.23	-----	29.78	-----	44.45
GMW-O-15	10/3/2016	74.23	30.92	31.00	0.08	NC
GMW-O-15	4/20/2017	74.23	29.52	29.65	0.13	NC
GMW-O-15	10/2/2017	74.23	30.33	31.92	1.59	NC
GMW-O-16	05/28/1996	74.10	-----	24.92	-----	49.18
GMW-O-16	11/20/1996	74.10	-----	25.89	-----	48.21
GMW-O-16	07/01/1997	74.10	-----	24.16	-----	49.94

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-O-16	05/04/1999	74.10	----	23.19	----	50.91
GMW-O-16	08/09/1999	74.10	----	24.27	----	49.83
GMW-O-16	11/15/1999	74.10	----	25.02	----	49.08
GMW-O-16	05/15/2000	74.10	----	24.44	----	49.66
GMW-O-16	11/13/2000	74.10	----	25.71	----	48.39
GMW-O-16	05/07/2001	74.10	----	23.15	----	50.95
GMW-O-16	11/05/2001	74.10	----	23.16	----	50.94
GMW-O-16	04/08/2002	74.10	----	24.25	----	49.85
GMW-O-16	10/21/2002	74.10	----	25.72	----	48.38
GMW-O-16	04/07/2003	74.10	----	24.59	----	49.51
GMW-O-16	10/06/2003	74.10	----	24.55	----	49.55
GMW-O-16	01/11/2004	74.10	----	28.00	----	46.10
GMW-O-16	04/19/2004	74.10	----	24.98	----	49.12
GMW-O-16	07/20/2004	74.10	----	25.37	----	48.73
GMW-O-16	05/02/2005	74.10	----	19.48	----	54.62
GMW-O-16	08/01/2005	74.10	----	20.45	----	53.65
GMW-O-16	10/31/2005	74.10	----	21.04	----	53.06
GMW-O-16	02/27/2006	74.10	----	22.31	----	51.79
GMW-O-16	05/01/2006	74.10	----	22.36	----	51.74
GMW-O-16	09/18/2006	74.10	----	23.19	----	50.91
GMW-O-16	12/04/2006	74.10	----	23.33	----	50.77
GMW-O-16	04/30/2007	74.10	----	23.82	----	50.28
GMW-O-16	11/12/2007	74.10	----	24.35	----	49.75
GMW-O-16	02/19/2008	74.10	----	24.69	----	49.41
GMW-O-16	04/14/2008	74.10	----	24.08	----	50.02
GMW-O-16	10/13/2008	74.10	----	25.12	----	48.98
GMW-O-16	04/20/2009	74.10	----	25.20	----	48.90
GMW-O-16	10/19/2009	74.10	----	25.81	----	48.29
GMW-O-16	03/15/2010	74.10	----	26.30	----	47.80
GMW-O-16	04/16/2010	74.10	----	25.20	----	48.90
GMW-O-16	05/24/2010	74.10	----	25.14	----	48.96
GMW-O-16	05/28/2010	74.10	----	25.13	----	48.97
GMW-O-16	06/22/2010	74.10	----	25.55	----	48.55
GMW-O-16	07/12/2010	74.10	----	26.28	----	47.82
GMW-O-16	08/12/2010	74.10	----	26.43	----	47.67
GMW-O-16	09/20/2010	74.10	----	26.95	----	47.15
GMW-O-16	10/04/2010	74.10	----	26.10	----	48.00
GMW-O-16	11/16/2010	74.10	----	26.58	----	47.52
GMW-O-16	12/22/2010	74.10	----	27.00	----	47.10
GMW-O-16	01/10/2011	74.10	----	26.42	----	47.68
GMW-O-16	02/24/2011	74.10	----	26.02	----	48.08
GMW-O-16	03/23/2011	74.10	----	25.99	----	48.11
GMW-O-16	04/11/2011	74.10	----	24.66	----	49.44
GMW-O-16	05/13/2011	74.10	----	25.76	----	48.34

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-O-16	06/22/2011	74.10	----	25.89	----	48.21
GMW-O-16	07/11/2011	74.10	----	26.00	----	48.10
GMW-O-16	08/19/2011	74.10	----	25.63	----	48.47
GMW-O-16	09/22/2011	74.10	----	26.32	----	47.78
GMW-O-16	10/10/2011	74.10	----	25.53	----	48.57
GMW-O-16	11/28/2011	74.10	----	26.42	----	47.68
GMW-O-16	12/21/2011	74.10	----	27.05	----	47.05
GMW-O-16	01/09/2012	74.10	----	26.98	----	47.12
GMW-O-16	02/23/2012	74.10	----	27.56	----	46.54
GMW-O-16	03/28/2012	74.10	----	27.50	----	46.60
GMW-O-16	04/16/2012	74.10	----	26.62	----	47.48
GMW-O-16	05/25/2012	74.10	----	26.81	----	47.29
GMW-O-16	06/15/2012	74.10	----	27.27	----	46.83
GMW-O-16	07/09/2012	74.10	----	27.12	----	46.98
GMW-O-16	08/29/2012	74.10	----	28.10	----	46.00
GMW-O-16	09/26/2012	74.10	----	28.46	----	45.64
GMW-O-16	10/15/2012	74.10	----	27.38	----	46.72
GMW-O-16	11/29/2012	74.10	----	28.61	----	45.49
GMW-O-16	12/26/2012	74.10	----	28.52	----	45.58
GMW-O-16	01/14/2013	74.10	----	28.72	----	45.38
GMW-O-16	02/20/2013	74.10	----	28.56	----	45.54
GMW-O-16	04/08/2013	74.10	----	28.61	----	45.49
GMW-O-16	10/07/2013	74.10	----	28.48	----	45.62
GMW-O-16	04/14/2014	74.10	----	28.85	----	45.25
GMW-O-16	10/27/2014	74.10	----	29.30	----	44.80
GMW-O-16	04/20/2015	74.10	----	29.69	----	44.41
GMW-O-16	10/19/2015	74.10	----	30.41	----	43.69
GMW-O-16	04/11/2016	74.10	----	31.30	----	42.80
GMW-O-16	10/3/2016	74.10	----	32.00	----	42.10
GMW-O-16	4/17/2017	74.10	----	30.49	----	43.61
GMW-O-16	10/2/2017	74.10	----	31.47	----	42.63
GMW-O-17	05/28/1996	73.78	----	24.72	----	49.06
GMW-O-17	11/20/1996	73.78	----	25.55	----	48.23
GMW-O-17	07/01/1997	73.78	----	23.84	----	49.94
GMW-O-17	12/31/1997	73.78	----	25.31	----	48.47
GMW-O-17	05/01/1998	73.78	----	20.49	----	53.29
GMW-O-17	05/03/1999	73.78	----	23.12	----	50.66
GMW-O-17	08/09/1999	73.78	----	23.50	----	50.28
GMW-O-17	11/15/1999	73.78	----	24.11	----	49.67
GMW-O-17	05/15/2000	73.78	----	23.70	----	50.08
GMW-O-17	11/13/2000	73.78	----	24.62	----	49.16
GMW-O-17	05/07/2001	73.78	----	22.39	----	51.39
GMW-O-17	11/05/2001	73.78	----	23.13	----	50.65
GMW-O-17	04/08/2002	73.78	----	23.69	----	50.09

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-O-17	10/21/2002	73.78	----	24.90	----	48.88
GMW-O-17	04/07/2003	73.78	----	24.05	----	49.73
GMW-O-17	10/06/2003	73.78	----	23.19	----	50.59
GMW-O-17	01/11/2004	73.78	----	25.39	----	48.39
GMW-O-17	04/19/2004	73.78	----	24.46	----	49.32
GMW-O-17	05/02/2005	73.78	----	19.51	----	54.27
GMW-O-17	10/31/2005	73.78	----	20.03	----	53.75
GMW-O-17	05/01/2006	73.78	----	20.75	----	53.03
GMW-O-17	12/04/2006	73.78	----	22.68	----	51.10
GMW-O-17	04/30/2007	73.78	----	23.19	----	50.59
GMW-O-17	11/12/2007	73.78	----	23.90	----	49.88
GMW-O-17	04/14/2008	73.78	----	23.55	----	50.23
GMW-O-17	08/11/2008	73.78	----	24.14	----	49.64
GMW-O-17	10/13/2008	73.78	----	24.60	----	49.18
GMW-O-17	04/20/2009	73.78	----	24.48	----	49.30
GMW-O-17	05/24/2010	73.78	----	24.78	----	49.00
GMW-O-17	05/28/2010	73.78	----	28.75	----	45.03
GMW-O-17	10/04/2010	73.78	----	25.60	----	48.18
GMW-O-17	01/10/2011	73.78	----	25.64	----	48.14
GMW-O-17	04/11/2011	73.78	----	24.11	----	49.67
GMW-O-17	10/10/2011	73.78	----	24.71	----	49.07
GMW-O-17	01/09/2012	73.78	----	25.32	----	48.46
GMW-O-17	04/16/2012	73.78	----	26.10	----	47.68
GMW-O-17	07/09/2012	73.78	----	26.42	----	47.36
GMW-O-17	10/15/2012	73.78	----	26.62	----	47.16
GMW-O-17	01/14/2013	73.78	----	27.48	----	46.30
GMW-O-17	04/08/2013	73.78	----	27.48	----	46.30
GMW-O-17	10/07/2013	73.78	----	28.21	----	45.57
GMW-O-17	04/14/2014	73.78	----	28.25	----	45.53
GMW-O-17	10/27/2014	73.78	----	28.84	----	44.94
GMW-O-17	04/20/2015	73.78	----	28.96	----	44.82
GMW-O-17	10/19/2015	73.78	----	29.95	----	43.83
GMW-O-17	04/11/2016	73.78	----	30.55	----	43.23
GMW-O-17	10/3/2016	73.78	----	31.10	----	42.68
GMW-O-17	4/17/2017	73.78	----	30.20	----	43.58
GMW-O-17	10/2/2017	73.78	----	30.70	----	43.08
GMW-O-18	05/28/1996	74.36	----	25.67	----	48.69
GMW-O-18	11/20/1996	74.36	----	26.70	----	47.66
GMW-O-18	12/31/1997	74.36	----	26.48	----	47.88
GMW-O-18	05/01/1998	74.36	----	29.04	----	45.32
GMW-O-18	05/04/1999	74.36	----	24.02	----	50.34
GMW-O-18	08/09/1999	74.36	----	24.91	----	49.45
GMW-O-18	11/15/1999	74.36	----	25.56	----	48.80
GMW-O-18	05/15/2000	74.36	----	29.17	----	45.19

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Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-O-18	05/07/2001	74.36	----	24.10	----	50.26
GMW-O-18	04/08/2002	74.36	24.81	24.81	sheen	49.55
GMW-O-18	05/02/2005	74.36	----	20.13	----	54.23
GMW-O-18	10/31/2005	74.36	----	21.79	----	52.57
GMW-O-18	05/01/2006	74.36	----	22.60	----	51.76
GMW-O-18	12/04/2006	74.36	----	23.61	----	50.75
GMW-O-18	04/30/2007	74.36	----	24.21	----	50.15
GMW-O-18	11/12/2007	74.36	----	22.46	----	51.90
GMW-O-18	04/14/2008	74.36	----	24.50	----	49.86
GMW-O-18	10/13/2008	74.36	----	25.46	----	48.90
GMW-O-18	04/20/2009	74.36	----	25.59	----	48.77
GMW-O-18	10/19/2009	74.36	----	26.31	----	48.05
GMW-O-18	03/15/2010	74.36	----	26.54	----	47.82
GMW-O-18	04/16/2010	74.36	----	24.25	----	50.11
GMW-O-18	05/24/2010	74.36	----	26.26	----	48.10
GMW-O-18	05/28/2010	74.36	----	26.03	----	48.33
GMW-O-18	06/22/2010	74.36	----	26.41	----	47.95
GMW-O-18	10/04/2010	74.36	----	29.95	----	44.41
GMW-O-18	10/10/2011	74.36	----	23.68	----	50.68
GMW-O-18	12/21/2011	74.46	----	27.14	----	47.32
GMW-O-18	02/23/2012	74.36	----	31.18	----	43.18
GMW-O-18	04/16/2012	74.36	----	27.10	----	47.26
GMW-O-18	05/25/2012	74.36	----	27.31	----	47.05
GMW-O-18	06/15/2012	74.36	----	35.13	----	39.23
GMW-O-18	07/09/2012	74.36	----	29.51	----	44.85
GMW-O-18	09/26/2012	74.36	----	30.83	----	43.53
GMW-O-18	10/15/2012	74.36	----	29.73	----	44.63
GMW-O-18	12/26/2012	74.36	----	28.87	----	45.49
GMW-O-18	01/14/2013	74.36	----	28.92	----	45.44
GMW-O-18	04/10/2013	74.36	----	28.10	----	46.26
GMW-O-18	10/07/2013	74.36	----	26.67	----	47.69
GMW-O-18	04/18/2014	74.36	29.37	29.43	0.06	NC
GMW-O-18	10/27/2014	74.36	29.52	29.95	0.43	NC
GMW-O-18	04/20/2015	74.36	----	28.53	----	45.83
GMW-O-18	10/19/2015	74.36	----	30.90	----	43.46
GMW-O-18	04/12/2016	74.36	----	31.63	----	42.73
GMW-O-18	12/13/2016	74.36	31.01	35.95	4.94	NC
GMW-O-18	4/17/2017	74.36	31.80	31.83	0.03	NC
GMW-O-18	10/2/2017	74.36	31.30	31.32	0.02	NC
GMW-O-19	05/28/1996	74.46	----	25.29	----	49.17
GMW-O-19	11/20/1996	74.46	----	26.28	----	48.18
GMW-O-19	07/01/1997	74.46	----	24.70	----	49.76
GMW-O-19	12/31/1997	74.46	----	25.92	----	48.54
GMW-O-19	08/09/1999	74.46	----	24.09	----	50.37

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-O-19	11/15/1999	74.46	----	24.82	----	49.64
GMW-O-19	05/15/2000	74.46	----	24.43	----	50.03
GMW-O-19	09/18/2001	74.46	----	23.07	----	51.39
GMW-O-19	11/05/2001	74.46	----	23.15	----	51.31
GMW-O-19	01/29/2002	74.46	----	23.25	----	51.21
GMW-O-19	04/08/2002	74.46	----	23.16	----	51.30
GMW-O-19	10/21/2002	74.46	----	23.34	----	51.12
GMW-O-19	04/07/2003	74.46	----	23.50	----	50.96
GMW-O-19	07/30/2003	74.46	----	24.29	----	50.17
GMW-O-19	10/06/2003	74.46	----	24.54	----	49.92
GMW-O-19	01/11/2004	74.46	----	26.02	----	48.44
GMW-O-19	04/19/2004	74.46	----	25.04	----	49.42
GMW-O-19	07/20/2004	74.46	----	25.35	----	49.11
GMW-O-19	05/02/2005	74.46	----	20.05	----	54.41
GMW-O-19	08/01/2005	74.46	----	20.82	----	53.64
GMW-O-19	10/31/2005	74.46	----	21.36	----	53.10
GMW-O-19	02/27/2006	74.46	----	22.06	----	52.40
GMW-O-19	05/01/2006	74.46	----	22.35	----	52.11
GMW-O-19	12/04/2006	74.46	----	23.32	----	51.14
GMW-O-19	04/30/2007	74.46	----	23.98	----	50.48
GMW-O-19	11/12/2007	74.46	----	24.57	----	49.89
GMW-O-19	04/14/2008	74.46	----	24.24	----	50.22
GMW-O-19	10/13/2008	74.46	----	25.36	----	49.10
GMW-O-19	04/20/2009	74.46	----	25.22	----	49.24
GMW-O-19	10/19/2009	74.46	----	26.26	----	48.20
GMW-O-19	03/15/2010	74.46	----	26.16	----	48.30
GMW-O-19	04/16/2010	74.46	----	25.30	----	49.16
GMW-O-19	05/24/2010	74.46	----	25.53	----	48.93
GMW-O-19	05/28/2010	74.46	----	25.47	----	48.99
GMW-O-19	06/22/2010	74.46	----	25.64	----	48.82
GMW-O-19	07/12/2010	74.46	----	26.04	----	48.42
GMW-O-19	08/12/2010	74.46	----	26.23	----	48.23
GMW-O-19	09/20/2010	74.46	----	26.52	----	47.94
GMW-O-19	10/04/2010	74.46	----	26.31	----	48.15
GMW-O-19	11/16/2010	74.46	----	26.67	----	47.79
GMW-O-19	12/22/2010	74.46	----	26.70	----	47.76
GMW-O-19	01/10/2011	74.46	----	26.37	----	48.09
GMW-O-19	02/24/2011	74.46	----	25.55	----	48.91
GMW-O-19	03/23/2011	74.46	----	25.29	----	49.17
GMW-O-19	04/11/2011	74.46	----	24.75	----	49.71
GMW-O-19	05/13/2011	74.46	----	25.11	----	49.35
GMW-O-19	06/22/2011	74.46	----	25.27	----	49.19
GMW-O-19	07/11/2011	74.46	----	25.42	----	49.04
GMW-O-19	08/19/2011	74.46	----	25.32	----	49.14

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-O-19	09/22/2011	74.46	----	25.82	----	48.64
GMW-O-19	10/10/2011	74.46	----	25.40	----	49.06
GMW-O-19	11/28/2011	74.46	----	25.96	----	48.50
GMW-O-19	12/21/2011	74.46	----	26.43	----	48.03
GMW-O-19	01/09/2012	74.46	----	26.56	----	47.90
GMW-O-19	02/23/2012	74.46	----	27.08	----	47.38
GMW-O-19	03/28/2012	74.46	----	27.14	----	47.32
GMW-O-19	04/16/2012	74.46	----	26.88	----	47.58
GMW-O-19	05/25/2012	74.46	----	27.01	----	47.45
GMW-O-19	06/15/2012	74.46	----	27.23	----	47.23
GMW-O-19	07/09/2012	74.46	----	27.27	----	47.19
GMW-O-19	08/29/2012	74.46	----	27.58	----	46.88
GMW-O-19	09/26/2012	74.46	----	27.90	----	46.56
GMW-O-19	10/15/2012	74.46	----	27.46	----	47.00
GMW-O-19	11/29/2012	74.46	----	28.16	----	46.30
GMW-O-19	12/26/2012	74.46	----	28.03	----	46.43
GMW-O-19	01/14/2013	74.46	----	28.02	----	46.44
GMW-O-19	02/20/2013	74.46	----	28.28	----	46.18
GMW-O-19	04/08/2013	74.46	----	28.36	----	46.10
GMW-O-19	10/07/2013	74.46	----	28.68	----	45.78
GMW-O-19	04/14/2014	74.46	----	28.82	----	45.64
GMW-O-19	10/27/2014	74.46	----	29.34	----	45.12
GMW-O-19	04/20/2015	74.46	----	28.41	----	46.05
GMW-O-19	10/19/2015	74.46	----	30.63	----	43.83
GMW-O-19	04/11/2016	74.46	----	31.70	----	42.76
GMW-O-19	10/3/2016	74.46	----	32.20	----	42.26
GMW-O-19	4/17/2017	74.46	----	30.94	----	43.52
GMW-O-19	10/2/2017	74.46	----	31.20	----	43.26
GMW-O-20	05/07/2001	73.34	----	22.15	----	51.19
GMW-O-20	08/15/2008	73.34	----	25.90	----	47.44
GMW-O-20	10/17/2008	73.34	----	25.82	----	47.52
GMW-O-20	04/21/2009	73.32	----	28.70	----	44.62
GMW-O-20	10/04/2010	73.32	31.10	31.20	0.10	NC
GMW-O-20	04/11/2011	73.32	----	23.82	----	49.50
GMW-O-20	10/10/2011	73.32	----	24.05	----	49.27
GMW-O-20	01/09/2012	73.32	----	24.68	----	48.64
GMW-O-20	04/16/2012	73.32	----	26.18	----	47.14
GMW-O-20	07/09/2012	73.32	----	32.92	----	40.40
GMW-O-20	10/15/2012	73.32	32.95	32.97	0.02	NC
GMW-O-20	01/14/2013	73.32	32.93	32.98	0.05	NC
GMW-O-20	04/08/2013	73.32	26.46	29.63	3.17	NC
GMW-O-20	10/07/2013	73.32	27.06	32.09	5.03	NC
GMW-O-20	04/25/2014	73.32	28.40	28.48	0.08	NC
GMW-O-20	10/27/2014	73.32	27.76	30.70	2.94	NC

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Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-O-20	04/22/2015	73.32	27.98	32.25	4.27	NC
GMW-O-20	10/22/2015	73.32	29.38	31.36	1.98	NC
GMW-O-20	04/12/2016	73.32	-----	32.48	-----	40.84
GMW-O-20	10/3/2016	73.32	-----	33.12	-----	40.20
GMW-O-20	4/20/2017	73.32	-----	29.70	-----	43.62
GMW-O-20	10/2/2017	73.32	-----	33.03	-----	40.29
GMW-O-21	10/06/2003	73.49	-----	22.60	-----	50.89
GMW-O-21	10/17/2008	73.94	-----	26.00	-----	47.94
GMW-O-21	10/04/2010	71.43	-----	25.40	-----	46.03
GMW-O-21	04/13/2011	71.43	-----	23.72	-----	47.71
GMW-O-21	10/10/2011	71.43	-----	24.65	-----	46.78
GMW-O-21	10/15/2012	71.43	-----	32.50	-----	38.93
GMW-O-21	04/14/2014	71.43	28.61	28.65	0.04	NC
GMW-O-21	10/27/2014	71.43	28.93	29.75	0.82	NC
GMW-O-21	04/20/2015	71.43	28.99	30.15	1.16	NC
GMW-O-21	07/02/2015	71.43	29.88	32.30	2.42	NC
GMW-O-21	10/19/2015	71.43	31.20	31.43	0.23	NC
GMW-O-21	04/11/2016	71.43	31.84	32.17	0.33	NC
GMW-O-21	10/3/2016	71.43	-----	33.45	-----	37.98
GMW-O-21	4/17/2017	71.43	-----	30.48	-----	40.95
GMW-O-21	10/2/2017	71.43	-----	33.45	-----	37.98
GMW-O-23	08/28/2007	73.63	-----	23.00	-----	50.63
GMW-O-23	11/13/2007	73.63	-----	23.90	-----	49.73
GMW-O-23	08/15/2008	73.63	-----	26.28	-----	47.35
GMW-O-23	10/17/2008	73.63	-----	27.16	-----	46.47
GMW-O-23	04/21/2009	73.63	-----	27.30	-----	46.33
GMW-O-23	10/04/2010	73.63	-----	25.92	-----	47.71
GMW-O-23	01/10/2011	73.63	-----	27.45	-----	46.18
GMW-O-23	04/11/2011	73.63	-----	25.03	-----	48.60
GMW-O-23	10/10/2011	73.63	-----	25.25	-----	48.38
GMW-O-23	01/09/2012	73.63	-----	25.91	-----	47.72
GMW-O-23	04/16/2012	73.63	-----	27.38	-----	46.25
GMW-O-23	07/09/2012	73.63	-----	27.41	-----	46.22
GMW-O-23	10/15/2012	73.63	-----	26.48	-----	47.15
GMW-O-23	01/14/2013	73.63	-----	29.35	-----	44.28
GMW-O-23	04/08/2013	73.63	27.74	29.81	2.07	NC
GMW-O-23	10/07/2013	73.63	28.30	32.86	4.56	NC
GMW-O-23	04/25/2014	73.63	29.66	29.81	0.15	NC
GMW-O-23	10/27/2014	73.63	28.80	32.51	3.71	NC
GMW-O-23	04/22/2015	73.63	30.36	33.08	2.72	NC
GMW-O-23	10/22/2015	73.63	30.46	32.82	2.36	NC
GMW-O-23	04/12/2016	73.63	-----	32.59	-----	41.04
GMW-O-23	10/3/2016	73.63	-----	34.90	-----	38.73
GMW-O-23	4/20/2017	73.63	-----	30.88	-----	42.75

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-O-23	10/2/2017	73.63	----	34.70	----	38.93
GMW-O-24	10/15/2012	74.39	----	27.90	----	46.49
GMW-O-24	04/08/2013	74.39	----	28.53	----	45.86
GMW-O-24	10/23/2013	74.39	----	29.40	----	44.99
GMW-O-24	04/14/2014	74.39	----	29.33	----	45.06
GMW-O-24	10/27/2014	74.39	----	29.82	----	44.57
GMW-O-24	04/20/2015	74.39	----	30.23	----	44.16
GMW-O-24	06/30/2015	74.39	----	31.06	----	43.33
GMW-O-24	10/19/2015	74.39	----	30.95	----	43.44
GMW-O-24	04/11/2016	74.39	----	31.84	----	42.55
GMW-O-24	10/3/2016	74.39	----	32.39	----	42.00
GMW-O-24	4/17/2017	74.39	----	28.60	----	45.79
GMW-O-24	10/2/2017	74.39	----	31.90	----	42.49
GMW-SF-7	05/28/1996	75.26	----	26.65	----	48.61
GMW-SF-7	11/20/1996	75.26	----	27.71	----	47.55
GMW-SF-7	12/31/1997	75.26	----	27.11	----	48.15
GMW-SF-7	05/03/1999	75.26	----	25.30	----	49.96
GMW-SF-7	08/09/1999	75.26	----	25.79	----	49.47
GMW-SF-7	11/15/1999	75.26	----	26.38	----	48.88
GMW-SF-7	05/15/2000	75.26	----	25.88	----	49.38
GMW-SF-7	11/13/2000	75.26	----	26.82	----	48.44
GMW-SF-7	05/07/2001	75.26	----	24.35	----	50.91
GMW-SF-7	11/05/2001	75.26	----	25.33	----	49.93
GMW-SF-7	02/01/2002	75.26	----	25.52	----	49.74
GMW-SF-7	04/08/2002	75.26	----	26.60	----	48.66
GMW-SF-7	10/21/2002	75.26	----	27.02	----	48.24
GMW-SF-7	01/27/2003	75.26	----	26.64	----	48.62
GMW-SF-7	04/07/2003	75.26	----	25.70	----	49.56
GMW-SF-7	07/31/2003	75.26	----	25.72	----	49.54
GMW-SF-7	10/06/2003	75.26	----	26.57	----	48.69
GMW-SF-7	01/11/2004	75.26	----	27.54	----	47.72
GMW-SF-7	01/27/2004	75.26	----	26.65	----	48.61
GMW-SF-7	04/19/2004	75.26	----	26.64	----	48.62
GMW-SF-7	07/19/2004	75.26	----	26.89	----	48.37
GMW-SF-7	02/01/2005	75.26	----	25.15	----	50.11
GMW-SF-7	05/02/2005	75.26	----	20.52	----	54.74
GMW-SF-7	08/01/2005	75.26	----	22.03	----	53.23
GMW-SF-7	10/31/2005	75.26	----	22.99	----	52.27
GMW-SF-7	02/27/2006	75.26	----	23.65	----	51.61
GMW-SF-7	05/01/2006	75.26	----	23.68	----	51.58
GMW-SF-7	09/18/2006	75.26	----	24.41	----	50.85
GMW-SF-7	12/04/2006	75.26	----	24.72	----	50.54
GMW-SF-7	03/12/2007	75.26	----	25.18	----	50.08
GMW-SF-7	04/30/2007	75.26	----	25.17	----	50.09

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-SF-7	08/28/2007	75.26	----	25.02	----	50.24
GMW-SF-7	11/12/2007	75.26	----	25.57	----	49.69
GMW-SF-7	04/14/2008	75.26	----	25.40	----	49.86
GMW-SF-7	10/13/2008	75.26	----	26.29	----	48.97
GMW-SF-7	04/20/2009	75.26	----	26.26	----	49.00
GMW-SF-7	10/19/2009	75.26	----	27.51	----	47.75
GMW-SF-7	05/24/2010	75.26	----	27.07	----	48.19
GMW-SF-7	05/28/2010	75.26	----	27.06	----	48.20
GMW-SF-7	10/04/2010	75.26	----	27.47	----	47.79
GMW-SF-7	04/11/2011	75.26	----	26.13	----	49.13
GMW-SF-7	10/10/2011	75.26	----	26.93	----	48.33
GMW-SF-7	04/16/2012	75.26	----	28.12	----	47.14
GMW-SF-7	10/15/2012	75.26	----	28.93	----	46.33
GMW-SF-7	04/08/2013	75.26	----	29.91	----	45.35
GMW-SF-7	10/07/2013	75.26	----	30.08	----	45.18
GMW-SF-7	04/14/2014	75.26	----	30.51	----	44.75
GMW-SF-7	10/27/2014	75.26	----	30.92	----	44.34
GMW-SF-7	04/20/2015	75.26	----	31.30	----	43.96
GMW-SF-7	10/19/2015	75.26	----	32.03	----	43.23
GMW-SF-7	04/11/2016	75.26	----	33.12	----	42.14
GMW-SF-7	10/3/2016	75.26	----	33.72	----	41.54
GMW-SF-7	4/17/2017	75.26	----	31.47	----	43.79
GMW-SF-7	10/2/2017	75.26	----	33.17	----	42.09
GMW-SF-8	05/28/1996	76.75	----	27.82	----	48.93
GMW-SF-8	11/20/1996	76.75	----	28.77	----	47.98
GMW-SF-8	07/01/1997	76.75	----	27.35	----	49.40
GMW-SF-8	12/31/1997	76.75	----	28.42	----	48.33
GMW-SF-8	05/03/1999	76.75	----	26.61	----	50.14
GMW-SF-8	08/09/1999	76.75	----	26.99	----	49.76
GMW-SF-8	11/15/1999	76.75	----	27.55	----	49.20
GMW-SF-8	05/15/2000	76.45	----	27.17	----	49.28
GMW-SF-8	11/13/2000	76.45	----	27.97	----	48.48
GMW-SF-8	05/07/2001	76.45	----	25.54	----	50.91
GMW-SF-8	11/05/2001	76.75	----	26.55	----	50.20
GMW-SF-8	04/08/2002	76.75	----	27.73	----	49.02
GMW-SF-8	10/21/2002	76.75	----	28.07	----	48.68
GMW-SF-8	01/27/2003	76.75	----	27.98	----	48.77
GMW-SF-8	04/07/2003	76.75	----	27.63	----	49.12
GMW-SF-8	07/31/2003	76.75	----	26.99	----	49.76
GMW-SF-8	10/06/2003	76.75	----	27.30	----	49.45
GMW-SF-8	01/11/2004	76.75	----	28.54	----	48.21
GMW-SF-8	01/27/2004	76.75	----	27.87	----	48.88
GMW-SF-8	04/19/2004	76.75	----	27.88	----	48.87
GMW-SF-8	07/19/2004	76.75	----	28.05	----	48.70

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-SF-8	02/01/2005	76.75	----	26.52	----	50.23
GMW-SF-8	05/02/2005	76.75	----	21.91	----	54.84
GMW-SF-8	08/01/2005	76.75	----	23.33	----	53.42
GMW-SF-8	10/31/2005	76.75	----	24.41	----	52.34
GMW-SF-8	02/27/2006	76.75	----	24.98	----	51.77
GMW-SF-8	05/01/2006	76.75	----	24.98	----	51.77
GMW-SF-8	09/18/2006	76.75	----	25.69	----	51.06
GMW-SF-8	12/04/2006	76.75	----	26.03	----	50.72
GMW-SF-8	04/30/2007	76.75	----	26.45	----	50.30
GMW-SF-8	11/12/2007	76.75	----	26.87	----	49.88
GMW-SF-8	04/14/2008	76.75	----	26.66	----	50.09
GMW-SF-8	10/13/2008	76.75	----	27.75	----	49.00
GMW-SF-8	04/20/2009	76.75	----	27.68	----	49.07
GMW-SF-8	10/19/2009	76.75	----	29.01	----	47.74
GMW-SF-8	05/24/2010	76.75	----	28.34	----	48.41
GMW-SF-8	05/28/2010	76.75	----	28.30	----	48.45
GMW-SF-8	10/04/2010	76.75	----	28.70	----	48.05
GMW-SF-8	01/10/2011	76.75	----	28.85	----	47.90
GMW-SF-8	04/11/2011	76.75	----	27.44	----	49.31
GMW-SF-8	10/10/2011	76.75	----	28.18	----	48.57
GMW-SF-8	01/09/2012	76.75	----	28.92	----	47.83
GMW-SF-8	04/16/2012	76.75	----	29.34	----	47.41
GMW-SF-8	07/09/2012	76.75	----	30.09	----	46.66
GMW-SF-8	10/15/2012	76.75	----	30.21	----	46.54
GMW-SF-8	01/14/2013	76.75	----	30.92	----	45.83
GMW-SF-8	04/08/2013	76.75	----	30.98	----	45.77
GMW-SF-8	10/07/2013	76.75	----	32.16	----	44.59
GMW-SF-8	04/14/2014	76.75	----	31.63	----	45.12
GMW-SF-8	10/27/2014	76.75	----	32.08	----	44.67
GMW-SF-8	04/20/2015	76.75	----	32.59	----	44.16
GMW-SF-8	10/19/2015	76.75	----	33.28	----	43.47
GMW-SF-8	04/11/2016	76.75	----	34.50	----	42.25
GMW-SF-8	10/3/2016	76.75	----	35.01	----	41.74
GMW-SF-8	4/17/2017	76.75	----	32.39	----	44.36
GMW-SF-8	10/2/2017	76.75	----	34.54	----	42.21
GMW-SF-9	04/21/2009	73.00	----	24.19	----	48.81
GMW-SF-9	05/24/2010	73.00	----	28.31	----	44.69
GMW-SF-9	05/28/2010	73.00	----	28.37	----	44.63
GMW-SF-9	10/04/2010	73.00	----	25.28	----	47.72
GMW-SF-9	04/11/2011	73.00	----	23.90	----	49.10
GMW-SF-9	10/10/2011	73.00	----	24.70	----	48.30
GMW-SF-9	04/16/2012	73.00	----	26.99	----	46.01
GMW-SF-9	10/15/2012	73.05	----	34.21	----	38.84
GMW-SF-9	01/14/2013	73.05	----	34.32	----	38.73

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GMW-SF-9	04/10/2013	73.05	----	27.37	----	45.68
GMW-SF-9	09/05/2014	73.05	28.29	29.33	1.04	NC
GMW-SF-9	04/20/2015	73.05	----	29.01	----	44.04
GMW-SF-9	10/21/2015	73.05	----	29.69	----	43.36
GMW-SF-10	04/21/2009	75.77	----	27.10	----	48.67
GMW-SF-10	10/04/2010	75.77	----	28.03	----	47.74
GMW-SF-10	04/11/2011	75.77	----	26.80	----	48.97
GMW-SF-10	10/10/2011	75.77	----	27.60	----	48.17
GMW-SF-10	04/16/2012	75.77	----	28.81	----	46.96
GMW-SF-10	10/15/2012	75.77	----	29.88	----	45.89
GW-1	05/01/1998	75.00	----	27.17	----	47.83
GW-1	05/25/1999	75.46	----	27.73	----	47.73
GW-1	05/15/2000	75.46	----	28.10	----	47.36
GW-1	05/07/2001	75.46	----	27.43	----	48.03
GW-1	04/08/2002	75.46	----	28.16	----	47.30
GW-1	10/21/2002	75.46	----	27.95	----	47.51
GW-1	04/07/2003	75.46	----	27.70	----	47.76
GW-1	10/06/2003	75.46	----	27.97	----	47.49
GW-1	04/19/2004	75.97	----	29.00	----	46.97
GW-1	11/01/2004	75.97	----	28.98	----	46.99
GW-1	05/02/2005	75.46	----	25.78	----	49.68
GW-1	05/01/2006	75.97	----	26.20	----	49.77
GW-1	12/01/2006	75.97	----	26.62	----	49.35
GW-1	04/30/2007	75.97	----	26.78	----	49.19
GW-1	11/12/2007	75.97	----	27.28	----	48.69
GW-1	04/11/2008	75.97	----	26.60	----	49.37
GW-1	07/24/2008	75.97	----	26.99	----	48.98
GW-1	10/13/2008	75.97	----	27.56	----	48.41
GW-1	02/09/2009	75.46	----	27.06	----	48.40
GW-1	04/07/2010	75.46	----	29.76	----	45.70
GW-1	10/01/2010	75.97	----	29.11	----	46.86
GW-1	01/06/2011	75.97	----	29.99	----	45.98
GW-1	04/12/2011	75.97	----	28.46	----	47.51
GW-1	07/07/2011	75.97	----	28.45	----	47.52
GW-1	10/07/2011	75.97	----	28.71	----	47.26
GW-1	04/12/2012	75.97	----	29.46	----	46.51
GW-1	01/10/2013	75.97	----	30.61	----	45.36
GW-1	04/02/2013	75.97	----	30.70	----	45.27
GW-1	10/01/2013	75.97	----	31.30	----	44.67
GW-1	04/07/2014	75.97	----	32.39	----	43.58
GW-1	10/27/2014	75.97	----	32.47	----	43.50
GW-1	04/20/2015	75.97	----	32.81	----	43.16
GW-1	10/19/2015	75.97	----	33.54	----	42.43
GW-1	10/3/2016	75.97	----	34.47	----	41.50

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GW-1	4/18/2017	75.97	----	34.40	----	41.57
GW-1	10/2/2017	75.97	----	34.92	----	41.05
GW-2	05/01/1998	75.00	----	27.65	----	47.35
GW-2	05/25/1999	76.39	----	28.47	----	47.92
GW-2	05/15/2000	76.39	----	28.88	----	47.51
GW-2	05/07/2001	76.39	----	28.22	----	48.17
GW-2	04/08/2002	76.39	----	28.85	----	47.54
GW-2	10/21/2002	76.39	----	28.75	----	47.64
GW-2	04/07/2003	76.39	----	28.58	----	47.81
GW-2	10/06/2003	76.39	----	28.67	----	47.72
GW-2	04/19/2004	75.78	----	28.75	----	47.03
GW-2	11/01/2004	75.78	----	28.72	----	47.06
GW-2	05/02/2005	76.39	----	26.05	----	50.34
GW-2	05/01/2006	75.78	----	25.84	----	49.94
GW-2	12/01/2006	75.78	----	26.23	----	49.55
GW-2	04/30/2007	75.78	----	26.52	----	49.26
GW-2	04/11/2008	76.39	----	27.39	----	49.00
GW-2	07/24/2008	76.39	----	27.88	----	48.51
GW-2	10/13/2008	76.39	----	28.31	----	48.08
GW-2	02/09/2009	76.39	----	27.61	----	48.78
GW-2	01/11/2010	76.39	----	29.26	----	47.13
GW-2	04/07/2010	76.39	----	29.45	----	46.94
GW-2	01/06/2011	75.78	----	32.45	----	43.33
GW-2	04/06/2011	75.78	----	28.31	----	47.47
GW-2	07/07/2011	75.78	----	28.25	----	47.53
GW-2	10/06/2011	75.78	----	28.47	----	47.31
GW-2	04/12/2012	75.78	----	29.34	----	46.44
GW-2	04/19/2012	75.78	----	28.99	----	46.79
GW-2	01/10/2013	75.78	----	30.42	----	45.36
GW-2	04/02/2013	75.78	----	30.25	----	45.53
GW-2	04/08/2013	75.78	----	30.11	----	45.67
GW-2	10/01/2013	75.78	----	30.95	----	44.83
GW-2	04/07/2014	75.78	----	32.10	----	43.68
GW-2	04/15/2014	75.78	----	31.82	----	43.96
GW-2	10/27/2014	75.78	----	32.16	----	43.62
GW-2	04/20/2015	75.78	----	32.53	----	43.25
GW-2	10/19/2015	75.78	----	33.21	----	42.57
GW-2	04/11/2016	75.78	----	33.61	----	42.17
GW-2	10/3/2016	75.78	----	34.08	----	41.70
GW-2	4/18/2017	75.78	----	34.15	----	41.63
GW-2	10/2/2017	75.78	----	34.53	----	41.25
GW-3	05/01/1998	75.00	----	28.26	----	46.74
GW-3	05/25/1999	76.56	----	28.90	----	47.66
GW-3	05/15/2000	76.56	----	29.29	----	47.27

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GW-3	05/07/2001	76.56	----	28.63	----	47.93
GW-3	04/08/2002	76.56	----	29.23	----	47.33
GW-3	10/21/2002	76.56	----	29.26	----	47.30
GW-3	04/07/2003	76.56	----	28.25	----	48.31
GW-3	10/06/2003	76.56	----	29.06	----	47.50
GW-3	04/19/2004	76.56	----	30.24	----	46.32
GW-3	11/01/2004	75.79	----	28.84	----	46.95
GW-3	05/02/2005	76.56	----	25.65	----	50.91
GW-3	05/01/2006	75.79	----	25.90	----	49.89
GW-3	12/01/2006	75.79	----	26.31	----	49.48
GW-3	04/30/2007	73.86	----	26.65	----	47.21
GW-3	11/12/2007	75.79	----	27.11	----	48.68
GW-3	04/11/2008	76.56	----	27.92	----	48.64
GW-3	07/24/2008	75.79	----	27.79	----	48.00
GW-3	10/13/2008	75.79	----	28.39	----	47.40
GW-3	02/09/2009	75.79	----	27.12	----	48.67
GW-3	04/20/2009	75.79	----	26.30	----	49.49
GW-3	10/19/2009	75.79	----	29.24	----	46.55
GW-3	04/07/2010	76.56	----	55.57	----	20.99
GW-3	04/12/2010	75.79	----	28.84	----	46.95
GW-3	10/01/2010	75.79	----	29.10	----	46.69
GW-3	04/06/2011	75.79	----	28.50	----	47.29
GW-3	07/08/2011	75.79	----	28.36	----	47.43
GW-3	10/06/2011	75.79	----	28.65	----	47.14
GW-3	04/12/2012	75.79	----	29.35	----	46.44
GW-3	01/10/2013	75.79	----	30.49	----	45.30
GW-3	04/02/2013	75.79	----	30.38	----	45.41
GW-3	04/08/2013	75.79	----	30.26	----	45.53
GW-3	10/01/2013	75.79	----	31.14	----	44.65
GW-3	04/09/2014	75.79	----	31.99	----	43.80
GW-3	04/15/2014	75.79	----	31.92	----	43.87
GW-3	10/27/2014	75.79	----	32.34	----	43.45
GW-3	04/20/2015	75.79	----	32.72	----	43.07
GW-3	10/19/2015	75.79	----	33.39	----	42.40
GW-3	04/11/2016	75.79	----	33.76	----	42.03
GW-3	10/3/2016	75.79	----	34.29	----	41.50
GW-3	4/18/2017	75.79	----	34.35	----	41.44
GW-3	10/2/2017	75.79	----	34.66	----	41.13
GW-3	10/25/2017	75.79	----	34.77	----	41.02
GW-4	05/01/1998	78.51	----	30.45	----	48.06
GW-4	05/25/1999	74.77	----	26.97	----	47.80
GW-4	05/15/2000	74.77	----	27.80	----	46.97
GW-4	05/07/2001	74.77	----	26.87	----	47.90
GW-4	04/08/2002	74.77	----	27.60	----	47.17

APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017
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15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GW-4	10/21/2002	74.77	----	27.60	----	47.17
GW-4	04/07/2003	74.77	----	27.25	----	47.52
GW-4	10/06/2003	74.77	----	27.40	----	47.37
GW-4	04/19/2004	74.77	----	28.07	----	46.70
GW-4	11/01/2004	74.77	----	28.09	----	46.68
GW-4	05/01/2006	73.86	----	28.52	----	45.34
GW-4	11/12/2007	74.77	----	26.40	----	48.37
GW-4	04/11/2008	74.77	----	26.32	----	48.45
GW-4	07/24/2008	74.77	----	26.71	----	48.06
GW-4	10/13/2008	74.77	----	27.31	----	47.46
GW-4	02/09/2009	74.77	----	26.05	----	48.72
GW-4	04/07/2010	74.77	----	28.12	----	46.65
GW-4	10/19/2015	73.86	----	31.79	----	42.07
GW-4	04/11/2016	73.86	----	32.19	----	41.67
GW-4	10/3/2016	73.86	----	32.82	----	41.04
GW-4	4/17/2017	73.86	----	DRY	----	NC
GW-4	10/2/2017	73.86	well full of mud			
GW-5	05/01/1998	75.00	----	26.42	----	48.58
GW-5	05/25/1999	77.09	----	29.01	----	48.08
GW-5	05/15/2000	77.09	----	36.26	----	40.83
GW-5	05/07/2001	77.09	----	30.32	----	46.77
GW-5	04/08/2002	77.09	----	29.75	----	47.34
GW-5	10/21/2002	77.09	----	30.27	----	46.82
GW-5	04/07/2003	77.09	----	29.30	----	47.79
GW-5	10/06/2003	77.09	----	29.34	----	47.75
GW-5	04/19/2004	77.09	----	30.24	----	46.85
GW-5	11/01/2004	77.09	----	30.02	----	47.07
GW-5	05/02/2005	77.09	----	25.81	----	51.28
GW-5	05/01/2006	77.09	----	26.87	----	50.22
GW-5	12/01/2006	77.09	----	27.45	----	49.64
GW-5	04/27/2007	77.09	----	27.75	----	49.34
GW-5	11/12/2007	77.09	----	28.36	----	48.73
GW-5	04/11/2008	77.09	----	28.17	----	48.92
GW-5	07/24/2008	77.09	----	28.62	----	48.47
GW-5	10/13/2008	77.09	----	29.21	----	47.88
GW-5	02/09/2009	76.99	----	27.68	----	49.31
GW-5	04/07/2010	76.99	----	29.88	----	47.11
GW-5	10/01/2010	76.99	----	30.03	----	46.96
GW-5	01/06/2011	76.99	----	30.18	----	46.81
GW-5	04/06/2011	76.99	----	29.11	----	47.88
GW-5	07/08/2011	76.99	----	29.24	----	47.75
GW-5	10/06/2011	76.99	----	29.58	----	47.41
GW-5	04/12/2012	76.99	----	30.48	----	46.51
GW-5	01/10/2013	76.99	----	31.68	----	45.31

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Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GW-5	04/02/2013	76.99	----	31.59	----	45.40
GW-5	10/01/2013	76.99	----	32.33	----	44.66
GW-5	04/07/2014	76.99	----	33.22	----	43.77
GW-5	10/27/2014	76.99	----	33.45	----	43.54
GW-5	Well decommissioned in December 2014 prior to remedial excavation					
GW-5R	10/2/2017	79.06	----	37.61	----	41.45
GW-6	05/01/1998	75.00	----	26.27	----	48.73
GW-6	05/25/1999	77.41	----	29.61	----	47.80
GW-6	05/15/2000	77.41	----	30.25	----	47.16
GW-6	05/07/2001	77.41	----	30.31	----	47.10
GW-6	04/08/2002	77.41	----	30.01	----	47.40
GW-6	10/21/2002	77.41	----	27.32	----	50.09
GW-6	04/07/2003	77.41	----	28.45	----	48.96
GW-6	10/06/2003	77.41	----	28.65	----	48.76
GW-6	04/19/2004	76.38	----	29.64	----	46.74
GW-6	11/01/2004	77.41	----	30.32	----	47.09
GW-6	05/02/2005	77.41	----	26.27	----	51.14
GW-6	05/01/2006	76.38	----	26.20	----	50.18
GW-6	12/01/2006	76.38	----	26.86	----	49.52
GW-6	04/27/2007	76.38	----	27.14	----	49.24
GW-6	11/12/2007	77.41	----	27.75	----	49.66
GW-6	04/11/2008	76.38	----	27.52	----	48.86
GW-6	07/24/2008	76.38	----	27.75	----	48.63
GW-6	10/13/2008	76.38	----	28.54	----	47.84
GW-6	02/09/2009	76.38	----	27.38	----	49.00
GW-6	04/20/2009	76.38	----	28.41	----	47.97
GW-6	10/19/2009	76.38	----	29.32	----	47.06
GW-6	04/07/2010	76.38	----	30.21	----	46.17
GW-6	04/12/2010	76.38	----	29.61	----	46.77
GW-6	01/06/2011	76.38	----	29.45	----	46.93
GW-6	04/06/2011	76.38	----	28.35	----	48.03
GW-6	07/07/2011	76.38	28.51	28.52	0.01	NC
GW-6	10/06/2011	76.38	----	28.88	----	47.50
GW-6	04/12/2012	76.38	----	29.88	----	46.50
GW-6	04/18/2012	76.38	----	29.65	----	46.73
GW-6	01/10/2013	76.38	----	31.13	----	45.25
GW-6	04/02/2013	76.38	----	31.03	----	45.35
GW-6	04/08/2013	76.38	----	31.00	----	45.38
GW-6	10/01/2013	76.38	----	31.78	----	44.60
GW-6	04/09/2014	76.38	----	32.55	----	43.83
GW-6	04/15/2014	76.38	----	32.43	----	43.95
GW-6	10/27/2014	76.38	----	32.87	----	43.51
GW-6	04/20/2015	76.38	----	33.23	----	43.15
GW-6	10/3/2016	76.38	----	34.88	----	41.50

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HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GW-6	4/17/2017	76.38	----	34.46	----	41.92
GW-6	10/2/2017	76.38	----	35.03	----	41.35
GW-7	05/01/1998	75.00	----	26.14	----	48.86
GW-7	05/25/1999	76.46	----	28.29	----	48.17
GW-7	05/15/2000	76.46	----	28.45	----	48.01
GW-7	04/08/2002	76.46	----	27.66	----	48.80
GW-7	10/21/2002	76.76	----	27.20	----	49.56
GW-7	04/07/2003	76.76	----	28.40	----	48.36
GW-7	10/06/2003	76.76	----	28.83	----	47.93
GW-7	04/19/2004	75.02	----	28.65	----	46.37
GW-7	11/01/2004	76.76	----	28.91	----	47.85
GW-7	05/02/2005	76.76	----	25.45	----	51.31
GW-7	05/01/2006	75.02	----	24.78	----	50.24
GW-7	12/01/2006	75.02	----	25.41	----	49.61
GW-7	04/30/2007	75.02	----	25.84	----	49.18
GW-7	04/11/2008	76.76	----	27.50	----	49.26
GW-7	07/24/2008	76.46	----	27.62	----	48.84
GW-7	10/14/2008	76.46	----	28.55	----	47.91
GW-7	02/10/2009	75.02	----	27.75	----	47.27
GW-7	04/08/2010	76.76	----	29.04	----	47.72
GW-7	10/01/2010	75.02	----	27.91	----	47.11
GW-7	01/07/2011	75.02	----	28.12	----	46.90
GW-7	04/06/2011	75.02	----	26.94	----	48.08
GW-7	07/08/2011	75.02	----	27.00	----	48.02
GW-7	10/06/2011	75.02	----	27.50	----	47.52
GW-7	01/11/2013	75.02	----	30.25	----	44.77
GW-7	04/03/2013	75.02	----	30.03	----	44.99
GW-7	10/02/2013	75.02	----	30.44	----	44.58
GW-7	04/09/2014	75.02	----	31.22	----	43.80
GW-7	10/27/2014	75.02	----	31.64	----	43.38
GW-7	04/20/2015	75.02	----	31.95	----	43.07
GW-7	10/19/2015	75.02	33.29	33.52	0.23	NC
GW-7	10/3/2016	75.02	----	33.69	----	41.33
GW-7	4/17/2017	75.02	----	32.95	----	42.07
GW-7	10/3/2017	75.02	----	33.94	----	41.08
GW-8	05/01/1998	75.00	----	26.17	----	48.83
GW-8	05/25/1999	76.88	----	28.59	----	48.29
GW-8	05/15/2000	76.88	----	36.92	----	39.96
GW-8	05/07/2001	76.88	----	34.15	----	42.73
GW-8	04/08/2002	76.88	----	33.15	----	43.73
GW-8	10/21/2002	76.88	----	28.24	----	48.64
GW-8	04/07/2003	76.88	----	29.04	----	47.84
GW-8	10/06/2003	76.88	----	29.10	----	47.78
GW-8	04/19/2004	76.88	----	30.00	----	46.88

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GW-8	11/01/2004	76.88	----	29.85	----	47.03
GW-8	05/02/2005	76.88	----	25.45	----	51.43
GW-8	03/06/2006	76.15	----	26.38	----	49.77
GW-8	05/01/2006	76.88	----	26.66	----	50.22
GW-8	08/26/2006	76.88	----	26.91	----	49.97
GW-8	12/01/2006	76.15	----	26.53	----	49.62
GW-8	03/21/2007	76.88	----	27.52	----	49.36
GW-8	04/27/2007	76.88	----	26.91	----	49.97
GW-8	08/28/2007	76.88	----	26.91	----	49.97
GW-8	11/12/2007	76.88	----	27.52	----	49.36
GW-8	02/05/2008	76.15	----	28.62	----	47.53
GW-8	04/11/2008	76.15	----	27.35	----	48.80
GW-8	07/24/2008	76.15	----	27.81	----	48.34
GW-8	10/13/2008	76.15	----	28.40	----	47.75
GW-8	02/09/2009	76.15	----	28.59	----	47.56
GW-8	07/16/2009	76.15	----	28.48	----	47.67
GW-8	04/07/2010	76.15	----	29.04	----	47.11
GW-8	10/01/2010	76.15	----	29.19	----	46.96
GW-8	01/06/2011	76.15	----	29.32	----	46.83
GW-8	04/06/2011	76.15	----	28.27	----	47.88
GW-8	07/07/2011	76.15	----	28.41	----	47.74
GW-8	10/06/2011	76.15	----	28.76	----	47.39
GW-8	04/12/2012	76.15	----	29.98	----	46.17
GW-8	01/10/2013	76.15	----	30.85	----	45.30
GW-8	04/02/2013	76.15	----	30.80	----	45.35
GW-8	10/01/2013	76.15	----	31.53	----	44.62
GW-8	04/07/2014	76.15	----	32.31	----	43.84
GW-8	04/17/2014	76.15	----	31.99	----	44.16
GW-8	10/27/2014	76.15	----	32.62	----	43.53
GW-8	04/20/2015	76.15	----	32.95	----	43.20
GW-8	10/20/2015	76.15	----	33.76	----	42.39
GW-8	10/3/2016	76.15	----	34.58	----	41.57
GW-8	4/17/2017	76.15	----	34.29	----	41.86
GW-8	10/2/2017	76.15	----	34.88	----	41.27
GW-13	11/12/2007	76.85	----	28.31	----	48.54
GW-13	07/24/2008	77.45	----	28.91	----	48.54
GW-13	10/13/2008	77.45	----	29.29	----	48.16
GW-13	02/09/2009	76.85	----	28.88	----	47.97
GW-13	04/20/2009	76.85	----	29.48	----	47.37
GW-13	10/19/2009	76.85	----	29.92	----	46.93
GW-13	04/12/2010	76.85	----	29.91	----	46.94
GW-13	01/06/2011	76.85	----	33.10	----	43.75
GW-13	04/08/2011	76.85	----	29.49	----	47.36
GW-13	07/07/2011	76.85	----	29.45	----	47.40

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15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GW-13	10/06/2011	76.85	----	29.64	----	47.21
GW-13	04/12/2012	76.85	----	30.52	----	46.33
GW-13	04/18/2012	76.85	----	30.27	----	46.58
GW-13	01/10/2013	76.85	----	31.63	----	45.22
GW-13	04/02/2013	76.85	----	31.51	----	45.34
GW-13	04/08/2013	76.85	----	31.41	----	45.44
GW-13	10/01/2013	76.85	----	32.24	----	44.61
GW-13	04/07/2014	76.85	----	33.28	----	43.57
GW-13	04/15/2014	76.85	----	33.00	----	43.85
GW-13	10/27/2014	76.85	----	33.35	----	43.50
GW-13	04/20/2015	76.85	----	33.72	----	43.13
GW-13	10/19/2015	76.85	----	34.42	----	42.43
GW-13	04/11/2016	76.85	----	34.82	----	42.03
GW-13	10/3/2016	76.85	----	35.32	----	41.53
GW-13	4/17/2017	76.85	----	35.35	----	41.50
GW-13	10/2/2017	76.85	----	34.17	----	42.68
GW-13(1in)	04/11/2008	77.10	----	28.30	----	48.80
GW-13(1in)	01/11/2010	77.10	----	30.24	----	46.86
GW-13(1in)	04/07/2010	77.10	----	30.08	----	47.02
GW-14	11/09/2007	76.54	----	27.85	----	48.69
GW-14	04/14/2008	76.54	----	27.36	----	49.18
GW-14	07/24/2008	76.54	----	26.02	----	50.52
GW-14	10/13/2008	76.54	----	28.79	----	47.75
GW-14	02/10/2009	76.54	----	26.62	----	49.92
GW-14	04/20/2009	76.54	----	28.27	----	48.27
GW-14	10/19/2009	76.54	----	27.46	----	49.08
GW-14	04/08/2010	76.54	----	28.70	----	47.84
GW-14	04/12/2010	76.54	----	28.40	----	48.14
GW-14	01/08/2011	76.54	----	29.45	----	47.09
GW-14	04/08/2011	76.54	----	27.98	----	48.56
GW-14	07/08/2011	76.54	----	28.31	----	48.23
GW-14	10/06/2011	76.54	----	28.93	----	47.61
GW-14	04/12/2012	76.54	----	29.95	----	46.59
GW-14	04/20/2012	76.54	----	29.90	----	46.64
GW-14	01/10/2013	76.54	----	33.29	----	43.25
GW-14	04/03/2013	76.54	----	31.29	----	45.25
GW-14	04/08/2013	76.54	----	31.17	----	45.37
GW-14	10/02/2013	76.54	----	32.04	----	44.50
GW-14	04/09/2014	76.54	----	32.65	----	43.89
GW-14	04/16/2014	76.54	----	32.42	----	44.12
GW-14	10/27/2014	76.54	----	32.87	----	43.67
GW-14	Well decommissioned in December 2014 prior to remedial excavation					
GW-14(1in)	01/12/2010	76.55	----	29.84	----	46.71
GW-14R	10/3/2017	78.77	33.35	35.03	1.68	NC

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GW-15	04/11/2008	74.94	----	26.19	----	48.75
GW-15	04/12/2010	74.94	27.58	29.63	2.05	NC
GW-15	04/08/2011	74.94	26.75	26.76	0.01	NC
GW-15	07/07/2011	74.94	27.57	27.61	0.04	NC
GW-15	10/06/2011	74.94	28.38	28.40	0.02	NC
GW-15	04/12/2012	74.94	29.54	29.55	0.01	NC
GW-15	01/11/2013	74.94	----	30.39	----	44.55
GW-15	04/03/2013	74.94	29.13	35.20	6.07	NC
GW-15	10/02/2013	74.94	31.70	35.01	3.31	NC
GW-15	04/09/2014	74.94	----	32.08	----	42.86
GW-15	04/17/2014	74.94	31.50	33.00	1.50	NC
GW-15	10/27/2014	74.94	32.82	32.87	0.05	NC
GW-15	04/20/2015	74.94	----	32.39	----	42.55
GW-15	10/21/2015	74.94	----	33.34	----	41.60
GW-15	04/13/2016	74.94	33.68	33.75	0.07	NC
GW-15	10/3/2016	74.94	----	34.31	----	40.63
GW-15	4/20/2017	74.94	----	33.91	----	41.03
GW-15	10/3/2017	74.94	----	33.58	----	41.36
GW-15(1in)	07/24/2008	75.36	27.50	27.55	0.05	NC
GW-15(1in)	10/16/2008	75.36	28.15	28.16	0.01	NC
GW-15(1in)	02/09/2009	75.36	27.98	28.02	0.04	NC
GW-15(1in)	07/17/2009	75.36	28.51	28.59	0.08	NC
GW-15(1in)	04/08/2010	75.36	27.74	29.43	1.69	NC
GW-16	10/19/2009	76.33	----	29.94	----	46.39
GW-16	04/12/2010	76.33	----	28.71	----	47.62
GW-16	07/07/2011	76.33	----	28.96	----	47.37
GW-16	10/06/2011	76.33	----	29.34	----	46.99
GW-16	04/12/2012	76.33	----	30.12	----	46.21
GW-16	01/11/2013	76.33	----	31.30	----	45.03
GW-16	04/03/2013	76.33	----	31.10	----	45.23
GW-16	10/02/2013	76.33	----	31.77	----	44.56
GW-16	04/09/2014	76.33	----	32.09	----	44.24
GW-16	04/16/2014	76.33	----	31.95	----	44.38
GW-16	10/27/2014	76.33	----	32.46	----	43.87
GW-16	04/20/2015	76.33	----	32.71	----	43.62
GW-16	10/21/2015	76.33	----	33.55	----	42.78
GW-16	04/13/2016	76.33	----	34.12	----	42.21
GW-16	10/3/2016	76.33	----	34.65	----	41.68
GW-16	4/18/2017	76.33	----	34.07	----	42.26
GW-16	10/3/2017	76.33	----	34.57	----	41.76
GW-16(1in)	07/17/2009	76.55	----	28.87	----	47.68
GW-16(1in)	01/12/2010	76.55	----	29.94	----	46.61
GW-16(1in)	04/07/2011	76.33	----	28.55	----	47.78
GWR-1	11/20/1996	73.65	----	26.79	----	46.86

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Defense Fuel Support Point Norwalk
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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GWR-1	07/01/1997	73.65	----	27.69	----	45.96
GWR-1	12/31/1997	73.65	----	27.34	----	46.31
GWR-1	05/01/1998	73.65	----	24.04	----	49.61
GWR-1	05/07/1999	73.65	----	25.56	----	48.09
GWR-1	08/09/1999	73.65	----	25.64	----	48.01
GWR-1	11/15/1999	73.65	----	25.86	----	47.79
GWR-1	05/15/2000	73.65	----	25.65	----	48.00
GWR-1	11/13/2000	73.65	----	26.40	----	47.25
GWR-1	05/07/2001	73.65	----	24.75	----	48.90
GWR-1	08/07/2001	73.65	----	24.39	----	49.26
GWR-1	11/05/2001	73.65	----	24.80	----	48.85
GWR-1	04/08/2002	73.65	----	29.39	----	44.26
GWR-1	10/21/2002	73.65	----	26.03	----	47.62
GWR-1	04/07/2003	73.65	----	25.69	----	47.96
GWR-1	10/06/2003	73.65	----	25.36	----	48.29
GWR-1	01/11/2004	73.65	----	26.72	----	46.93
GWR-1	05/02/2005	73.65	----	21.62	----	52.03
GWR-1	08/01/2005	73.65	----	22.06	----	51.59
GWR-1	10/31/2005	73.65	----	24.16	----	49.49
GWR-1	05/01/2006	73.65	----	22.70	----	50.95
GWR-1	09/18/2006	73.65	----	24.31	----	49.34
GWR-1	12/04/2006	73.65	----	23.95	----	49.70
GWR-1	04/30/2007	73.65	----	41.65	----	32.00
GWR-1	11/12/2007	73.65	----	24.05	----	49.60
GWR-1	04/14/2008	73.65	----	24.40	----	49.25
GWR-1	10/13/2008	73.65	----	25.06	----	48.59
GWR-1	04/20/2009	77.40	----	28.78	----	48.62
GWR-1	10/19/2009	77.40	----	29.98	----	47.42
GWR-1	05/24/2010	77.40	----	26.37	----	51.03
GWR-1	05/28/2010	77.40	----	25.91	----	51.49
GWR-1	10/04/2010	77.40	----	26.15	----	51.25
GWR-1	04/11/2011	77.40	----	27.50	----	49.90
GWR-1	10/10/2011	77.40	----	25.45	----	51.95
GWR-1	04/16/2012	77.40	----	27.53	----	49.87
GWR-1	10/15/2012	77.40	----	29.21	----	48.19
GWR-1	04/08/2013	77.40	----	29.28	----	48.12
GWR-1	10/07/2013	77.40	----	29.66	----	47.74
GWR-1	04/14/2014	77.40	----	30.31	----	47.09
GWR-1	10/27/2014	77.40	----	30.81	----	46.59
GWR-1	Well decommissioned in December 2014 prior to remedial excavation					
GWR-1R	4/17/2017	76.64	----	33.77	----	42.87
GWR-1R	10/2/2017	76.64	----	37.26	----	39.38
GWR-2	08/09/1999	73.66	----	25.74	----	47.92
GWR-2	10/21/2002	73.66	----	25.89	----	47.77

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Defense Fuel Support Point Norwalk
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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
GWR-2	04/07/2003	73.66	----	26.68	----	46.98
GWR-3	08/09/1999	74.93	27.45	29.30	1.85	NC
GWR-3	05/15/2000	74.93	28.67	31.92	3.25	NC
GWR-3	11/13/2000	74.93	----	37.59	----	37.34
GWR-3	05/07/2001	74.93	27.20	28.15	0.95	NC
GWR-3	11/05/2001	74.93	----	27.95	----	46.98
GWR-3	04/08/2002	74.93	----	27.58	----	47.35
GWR-3	05/02/2005	74.93	----	26.12	----	48.81
GWR-3	05/01/2006	74.93	----	26.46	----	48.47
GWR-3	12/04/2006	74.93	----	28.27	----	46.66
GWR-3	04/30/2007	74.93	----	27.97	----	46.96
GWR-3	11/12/2007	74.93	----	27.90	----	47.03
GWR-3	10/17/2008	74.93	----	29.88	----	45.05
GWR-3	04/21/2009	74.93	----	29.97	----	44.96
GWR-3	10/04/2010	74.93	----	30.67	----	44.26
GWR-3	04/11/2011	74.93	----	29.94	----	44.99
GWR-3	10/10/2011	74.93	----	29.22	----	45.71
GWR-3	04/16/2012	74.93	----	29.56	----	45.37
GWR-3	10/15/2012	77.60	----	31.21	----	46.39
GWR-3	04/08/2013	77.60	29.18	29.21	0.03	NC
GWR-3	10/07/2013	77.60	31.67	36.20	4.53	NC
GWR-3	04/14/2014	77.60	32.23	38.80	6.57	NC
GWR-3	10/27/2014	77.60	33.49	34.68	1.19	NC
GWR-3	04/20/2015	77.60	33.34	37.25	3.91	NC
GWR-3	07/24/2015	77.60	33.95	41.30	7.35	NC
GWR-3	10/20/2015	77.60	34.65	35.98	1.33	NC
GWR-3	04/11/2016	77.60	----	36.90	----	40.70
GWR-3	10/3/2016	77.60	39.15	39.20	0.05	NC
GWR-3	4/17/2017	77.60	----	34.88	----	42.72
GWR-3	10/2/2017	77.60	----	38.92	----	38.68
HL-1	08/07/2001	75.83	----	26.46	----	49.37
HL-1	04/08/2002	75.83	----	27.30	----	48.53
HL-1	11/04/2002	75.83	----	28.12	----	47.71
HL-1	04/07/2003	75.83	----	27.72	----	48.11
HL-1	10/06/2003	75.83	----	27.30	----	48.53
HL-1	01/11/2004	75.83	----	28.72	----	47.11
HL-1	04/19/2004	75.83	----	28.41	----	47.42
HL-1	05/02/2005	75.83	----	23.71	----	52.12
HL-1	10/31/2005	75.83	----	25.43	----	50.40
HL-2	05/28/1996	76.91	----	30.94	----	45.97
HL-2	11/20/1996	76.91	----	30.15	----	46.76
HL-2	07/01/1997	76.91	----	31.20	----	45.71
HL-2	12/31/1997	76.91	----	30.34	----	46.57
HL-2	05/01/1998	76.91	----	28.16	----	48.75

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
HL-2	05/04/1999	76.91	----	28.10	----	48.81
HL-2	08/09/1999	76.91	----	28.37	----	48.54
HL-2	11/15/1999	76.91	----	28.08	----	48.83
HL-2	05/15/2000	76.91	----	28.23	----	48.68
HL-2	11/13/2000	76.91	----	29.21	----	47.70
HL-2	05/07/2001	76.91	----	25.99	----	50.92
HL-2	05/10/2001	76.91	----	27.89	----	49.02
HL-2	11/05/2001	76.91	----	27.76	----	49.15
HL-2	04/08/2002	76.91	----	28.12	----	48.79
HL-2	10/21/2002	76.91	----	28.40	----	48.51
HL-2	04/07/2003	76.91	----	28.70	----	48.21
HL-2	07/07/2003	76.94	----	28.61	----	48.33
HL-2	10/06/2003	76.91	----	28.50	----	48.41
HL-2	01/20/2004	76.94	----	28.90	----	48.04
HL-2	04/19/2004	76.94	----	29.24	----	47.70
HL-2	04/27/2004	76.94	----	29.38	----	47.56
HL-2	06/07/2004	76.94	----	29.58	----	47.36
HL-2	07/08/2004	76.94	----	29.59	----	47.35
HL-2	05/02/2005	76.94	----	26.61	----	50.33
HL-2	10/31/2005	76.94	----	25.80	----	51.14
HL-2	05/01/2006	76.94	----	26.04	----	50.90
HL-2	12/04/2006	76.94	----	26.83	----	50.11
HL-2	04/30/2007	76.94	----	26.81	----	50.13
HL-2	11/12/2007	76.94	----	27.29	----	49.65
HL-2	04/14/2008	76.94	----	27.10	----	49.84
HL-2	10/13/2008	76.94	----	28.06	----	48.88
HL-2	04/20/2009	76.94	----	28.28	----	48.66
HL-2	10/19/2009	76.94	----	29.03	----	47.91
HL-2	05/24/2010	76.94	----	29.36	----	47.58
HL-2	05/28/2010	76.94	----	29.38	----	47.56
HL-2	10/04/2010	76.94	----	29.25	----	47.69
HL-2	01/10/2011	76.94	----	29.90	----	47.04
HL-2	04/11/2011	76.94	----	28.73	----	48.21
HL-2	10/10/2011	76.94	----	28.54	----	48.40
HL-2	01/09/2012	76.94	----	29.10	----	47.84
HL-2	04/16/2012	76.94	----	29.50	----	47.44
HL-2	07/09/2012	76.94	----	30.22	----	46.72
HL-2	10/15/2012	76.94	----	30.22	----	46.72
HL-2	01/14/2013	76.94	----	31.02	----	45.92
HL-2	04/08/2013	76.94	----	30.99	----	45.95
HL-2	10/07/2013	76.94	----	32.21	----	44.73
HL-2	04/14/2014	76.94	----	32.53	----	44.41
HL-2	10/27/2014	76.94	----	32.89	----	44.05
HL-2	04/20/2015	76.94	----	33.37	----	43.57

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
HL-2	10/19/2015	76.94	----	34.08	----	42.86
HL-2	04/11/2016	76.94	----	35.51	----	41.43
HL-2	10/3/2016	76.94	----	35.17	----	41.77
HL-2	4/17/2017	76.94	----	34.45	----	42.49
HL-2	10/2/2017	76.94	----	37.24	----	39.70
HL-3	05/07/2001	76.86	----	27.92	----	48.94
HL-3	11/05/2001	76.86	----	27.99	----	48.87
HL-3	04/08/2002	76.86	----	28.73	----	48.13
HL-3	10/21/2002	76.86	----	29.13	----	47.73
HL-3	04/07/2003	76.86	----	29.04	----	47.82
HL-3	10/06/2003	76.86	----	28.74	----	48.12
HL-3	01/11/2004	76.86	----	30.21	----	46.65
HL-3	04/19/2004	76.86	----	29.98	----	46.88
HL-3	05/02/2005	76.86	----	24.80	----	52.06
HL-3	10/31/2005	76.86	----	26.28	----	50.58
HL-3	05/01/2006	76.86	----	26.01	----	50.85
HL-3	12/04/2006	76.86	----	26.86	----	50.00
HL-3	04/30/2007	76.86	----	26.92	----	49.94
HL-3	11/12/2007	76.86	----	27.39	----	49.47
HL-3	04/14/2008	76.86	----	27.62	----	49.24
HL-3	10/13/2008	76.86	----	28.29	----	48.57
HL-3	04/20/2009	76.86	----	28.45	----	48.41
HL-3	10/19/2009	76.86	----	29.46	----	47.40
HL-3	05/24/2010	76.86	----	29.27	----	47.59
HL-3	05/28/2010	76.86	----	29.34	----	47.52
HL-3	10/04/2010	76.86	----	29.36	----	47.50
HL-3	04/11/2011	76.86	----	28.28	----	48.58
HL-3	10/10/2011	76.86	----	28.70	----	48.16
HL-3	04/16/2012	76.86	----	29.83	----	47.03
HL-3	10/15/2012	76.86	----	30.64	----	46.22
HL-3	04/08/2013	76.86	----	31.61	----	45.25
HL-3	10/07/2013	76.86	----	32.50	----	44.36
HL-3	04/14/2014	76.86	----	32.68	----	44.18
HL-3	04/14/2014	76.86	----	32.68	----	44.18
HL-3	04/20/2015	76.86	----	33.43	----	43.43
HL-3	10/19/2015	76.86	----	34.15	----	42.71
HL-3	04/11/2016	76.86	----	36.03	----	40.83
HL-3	10/3/2016	76.86	----	37.22	----	39.64
HL-3	4/17/2017	76.86	----	34.06	----	42.80
HL-3	10/2/2017	76.86	----	37.15	----	39.71
HL-4	05/07/1999	75.75	----	27.76	----	47.99
HL-4	08/09/1999	75.75	----	27.77	----	47.98
HL-4	11/15/1999	75.75	----	27.85	----	47.90
HL-4	05/15/2000	75.75	----	19.32	----	56.43

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
HL-4	11/13/2000	75.75	----	28.59	----	47.16
HL-4	05/07/2001	75.75	----	26.93	----	48.82
HL-4	11/05/2001	75.75	----	26.90	----	48.85
HL-4	04/08/2002	75.75	----	27.42	----	48.33
HL-4	10/21/2002	75.75	----	28.02	----	47.73
HL-4	04/07/2003	75.75	----	25.86	----	49.89
HL-4	10/06/2003	75.75	----	27.59	----	48.16
HL-4	01/11/2004	75.75	----	29.01	----	46.74
HL-4	04/19/2004	75.75	----	28.81	----	46.94
HL-5	08/07/2001	76.53	----	27.29	----	49.24
HL-5	10/21/2002	76.13	----	28.40	----	47.73
HL-5	04/07/2003	76.13	----	26.06	----	50.07
HL-5	10/06/2003	76.13	----	27.65	----	48.48
HL-5	01/11/2004	76.13	----	29.07	----	47.06
HL-5	04/19/2004	76.13	----	28.88	----	47.25
MW-6	05/28/1996	77.20	----	30.52	----	46.68
MW-6	11/20/1996	77.20	----	30.88	----	46.32
MW-6	07/01/1997	77.20	----	32.12	----	45.08
MW-6	12/31/1997	77.20	----	31.26	----	45.94
MW-6	05/01/1998	77.20	----	29.15	----	48.05
MW-6	05/03/1999	77.20	----	29.46	----	47.74
MW-6	08/09/1999	77.20	----	29.65	----	47.55
MW-6	11/15/1999	77.20	----	29.73	----	47.47
MW-6	05/15/2000	77.20	----	29.39	----	47.81
MW-6	11/13/2000	77.20	----	30.70	----	46.50
MW-6	05/07/2001	77.20	----	28.88	----	48.32
MW-6	11/05/2001	77.20	----	28.53	----	48.67
MW-6	04/08/2002	77.20	----	29.29	----	47.91
MW-6	04/08/2002	77.20	----	29.51	----	47.69
MW-6	10/21/2002	77.20	----	29.40	----	47.80
MW-6	04/07/2003	77.20	----	29.67	----	47.53
MW-6	10/06/2003	77.20	----	29.48	----	47.72
MW-6	01/11/2004	77.20	----	30.31	----	46.89
MW-6	04/19/2004	77.20	----	30.29	----	46.91
MW-6	05/02/2005	77.20	----	27.00	----	50.20
MW-6	10/31/2005	77.20	----	26.36	----	50.84
MW-6	05/01/2006	77.20	----	26.79	----	50.41
MW-6	12/04/2006	77.20	----	27.41	----	49.79
MW-6	04/30/2007	77.20	----	27.47	----	49.73
MW-6	11/12/2007	77.20	----	27.72	----	49.48
MW-6	04/14/2008	77.20	----	28.13	----	49.07
MW-6	10/13/2008	77.20	----	30.63	----	46.57
MW-6	04/20/2009	77.20	----	28.80	----	48.40
MW-6	10/19/2009	77.20	----	29.48	----	47.72

APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
MW-6	05/24/2010	77.20	----	30.33	----	46.87
MW-6	05/28/2010	77.20	----	30.17	----	47.03
MW-6	10/04/2010	77.20	----	29.80	----	47.40
MW-6	04/11/2011	77.20	----	29.14	----	48.06
MW-6	10/10/2011	77.20	----	29.04	----	48.16
MW-6	04/16/2012	77.20	----	30.10	----	47.10
MW-6	10/15/2012	77.20	----	30.91	----	46.29
MW-6	04/08/2013	77.20	----	31.30	----	45.90
MW-6	10/07/2013	77.20	----	32.14	----	45.06
MW-6	04/14/2014	77.20	----	32.98	----	44.22
MW-6	10/27/2014	77.20	----	33.33	----	43.87
MW-6	04/20/2015	77.20	----	33.79	----	43.41
MW-6	10/19/2015	77.20	----	34.47	----	42.73
MW-6	04/11/2016	77.20	----	35.25	----	41.95
MW-6	10/3/2016	77.20	----	35.13	----	42.07
MW-6	4/17/2017	77.20	----	34.93	----	42.27
MW-6	10/2/2017	77.20	----	35.97	----	41.23
MW-7	05/28/1996	78.13	----	32.10	----	46.03
MW-7	11/20/1996	78.13	----	32.65	----	45.48
MW-7	07/01/1997	78.13	----	34.04	----	44.09
MW-7	12/31/1997	78.13	----	32.78	----	45.35
MW-7	05/01/1998	78.13	----	30.17	----	47.96
MW-7	05/03/1999	78.13	----	30.64	----	47.49
MW-7	08/09/1999	78.13	----	30.56	----	47.57
MW-7	11/15/1999	78.13	----	30.40	----	47.73
MW-7	05/15/2000	78.13	----	30.30	----	47.83
MW-7	11/13/2000	78.13	----	31.69	----	46.44
MW-7	05/07/2001	78.13	----	29.43	----	48.70
MW-7	11/05/2001	78.13	----	29.34	----	48.79
MW-7	04/08/2002	78.13	----	30.05	----	48.08
MW-7	10/21/2002	78.13	----	30.42	----	47.71
MW-7	04/07/2003	78.13	----	31.46	----	46.67
MW-7	10/06/2003	78.13	----	30.50	----	47.63
MW-7	01/11/2004	78.13	----	32.16	----	45.97
MW-7	04/19/2004	78.13	----	32.30	----	45.83
MW-7	05/02/2005	78.13	----	27.06	----	51.07
MW-7	10/31/2005	78.13	----	27.11	----	51.02
MW-7	05/01/2006	78.13	----	27.51	----	50.62
MW-7	12/04/2006	78.13	----	28.34	----	49.79
MW-7	04/30/2007	78.13	----	28.37	----	49.76
MW-7	11/12/2007	78.13	----	28.73	----	49.40
MW-7	04/14/2008	78.13	----	29.75	----	48.38
MW-7	10/13/2008	78.13	----	29.63	----	48.50
MW-7	04/20/2009	78.13	----	29.76	----	48.37

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
MW-7	10/19/2009	78.13	----	30.70	----	47.43
MW-7	05/24/2010	78.13	----	30.70	----	47.43
MW-7	05/28/2010	78.13	----	30.68	----	47.45
MW-7	10/04/2010	78.13	----	28.16	----	49.97
MW-7	04/11/2011	78.13	----	29.64	----	48.49
MW-7	10/10/2011	78.13	----	30.02	----	48.11
MW-7	04/16/2012	78.13	----	31.04	----	47.09
MW-7	10/15/2012	78.13	----	31.81	----	46.32
MW-7	04/08/2013	78.13	----	32.54	----	45.59
MW-7	10/07/2013	78.13	----	33.04	----	45.09
MW-7	04/14/2014	78.13	----	34.00	----	44.13
MW-7	10/27/2014	78.13	----	34.19	----	43.94
MW-7	04/20/2015	78.13	----	34.70	----	43.43
MW-7	10/19/2015	78.13	----	32.69	----	45.44
MW-7	04/11/2016	78.13	----	36.75	----	41.38
MW-7	10/3/2016	78.13	----	37.90	----	40.23
MW-7	4/17/2017	78.13	----	35.26	----	42.87
MW-7	10/2/2017	78.13	----	37.74	----	40.39
MW-8	05/28/1996	76.06	----	26.96	----	49.10
MW-8	11/20/1996	76.06	----	28.06	----	48.00
MW-8	05/03/1999	76.06	----	25.82	----	50.24
MW-8	08/09/1999	76.06	----	26.30	----	49.76
MW-8	11/15/1999	76.06	----	26.93	----	49.13
MW-8	05/15/2000	76.06	----	26.64	----	49.42
MW-8	11/13/2000	76.06	----	27.69	----	48.37
MW-8	02/05/2001	76.06	----	27.15	----	48.91
MW-8	05/07/2001	76.06	----	25.43	----	50.63
MW-8	09/18/2001	76.06	----	25.87	----	50.19
MW-8	01/29/2002	76.06	----	26.33	----	49.73
MW-8	04/08/2002	76.06	----	26.70	----	49.36
MW-8	10/21/2002	76.06	----	27.87	----	48.19
MW-8	01/27/2003	76.06	----	27.39	----	48.67
MW-8	04/07/2003	76.06	----	26.75	----	49.31
MW-8	07/31/2003	76.06	----	26.56	----	49.50
MW-8	10/06/2003	76.06	----	26.82	----	49.24
MW-8	01/11/2004	76.06	----	28.25	----	47.81
MW-8	01/27/2004	76.06	----	27.52	----	48.54
MW-8	04/19/2004	76.06	----	29.21	----	46.85
MW-8	07/19/2004	76.06	----	27.68	----	48.38
MW-8	02/01/2005	76.06	----	26.49	----	49.57
MW-8	05/02/2005	76.06	----	22.01	----	54.05
MW-8	08/01/2005	76.06	----	23.19	----	52.87
MW-8	10/31/2005	76.06	----	25.72	----	50.34
MW-8	02/27/2006	76.06	----	24.41	----	51.65

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
MW-8	05/01/2006	76.06	----	24.37	----	51.69
MW-8	09/18/2006	76.06	----	25.21	----	50.85
MW-8	12/04/2006	76.06	----	25.46	----	50.60
MW-8	03/12/2007	76.06	----	25.98	----	50.08
MW-8	04/30/2007	76.06	----	25.18	----	50.88
MW-8	08/28/2007	76.06	----	26.90	----	49.16
MW-8	11/12/2007	76.06	----	26.40	----	49.66
MW-8	02/19/2008	76.06	----	26.79	----	49.27
MW-8	04/14/2008	76.06	----	26.29	----	49.77
MW-8	10/13/2008	76.06	----	27.27	----	48.79
MW-8	04/20/2009	76.06	----	27.19	----	48.87
MW-8	10/19/2009	76.06	----	28.71	----	47.35
MW-8	05/24/2010	76.06	----	27.91	----	48.15
MW-8	05/28/2010	76.06	----	27.90	----	48.16
MW-8	10/04/2010	76.06	----	28.16	----	47.90
MW-8	01/10/2011	76.06	----	28.53	----	47.53
MW-8	04/11/2011	76.06	----	26.84	----	49.22
MW-8	10/10/2011	76.06	----	27.65	----	48.41
MW-8	01/09/2012	76.06	----	28.31	----	47.75
MW-8	04/16/2012	76.06	----	28.77	----	47.29
MW-8	07/09/2012	76.06	----	29.63	----	46.43
MW-8	10/15/2012	76.06	----	29.48	----	46.58
MW-8	01/14/2013	76.06	----	30.82	----	45.24
MW-8	04/08/2013	76.06	----	30.56	----	45.50
MW-8	10/07/2013	76.06	----	31.15	----	44.91
MW-8	04/14/2014	76.06	----	31.10	----	44.96
MW-8	10/27/2014	76.06	----	31.51	----	44.55
MW-8	04/20/2015	76.06	----	31.86	----	44.20
MW-8	10/19/2015	76.06	----	32.69	----	43.37
MW-8	04/11/2016	76.06	----	33.57	----	42.49
MW-8	10/3/2016	76.06	----	34.20	----	41.86
MW-8	4/17/2017	76.06	----	32.21	----	43.85
MW-8	10/2/2017	76.06	----	33.64	----	42.42
MW-9	11/20/1996	77.11	----	29.76	----	47.35
MW-9	07/01/1997	77.11	----	29.41	----	47.70
MW-9	12/31/1997	77.11	----	29.72	----	47.39
MW-9	05/01/1998	77.11	----	26.20	----	50.91
MW-9	08/09/1999	77.11	28.08	28.50	0.42	NC
MW-9	11/15/1999	77.11	----	28.58	----	48.53
MW-9	11/13/2000	77.11	28.92	28.94	0.02	NC
MW-9	05/07/2001	77.11	----	24.26	----	52.85
MW-9	05/10/2001	77.11	----	27.13	----	49.98
MW-9	09/18/2001	77.11	27.49	27.50	0.01	NC
MW-9	11/05/2001	77.11	----	27.59	----	49.52

APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
MW-9	04/08/2002	77.11	28.21	28.30	0.09	NC
MW-9	10/21/2002	77.11	29.10	29.16	0.06	NC
MW-9	04/07/2003	77.11	28.41	28.42	0.01	NC
MW-9	10/06/2003	77.11	28.47	28.48	0.01	NC
MW-9	01/11/2004	77.11	-----	29.63	-----	47.48
MW-9	04/19/2004	77.11	27.50	27.53	0.03	NC
MW-9	05/02/2005	77.11	-----	23.61	-----	53.50
MW-9	10/31/2005	77.11	25.31	25.62	0.31	NC
MW-9	05/01/2006	77.11	25.71	25.75	0.04	NC
MW-9	12/04/2006	77.11	-----	26.67	-----	50.44
MW-9	04/30/2007	77.11	-----	27.29	-----	49.82
MW-9	08/28/2007	77.11	25.29	26.88	1.59	NC
MW-9	11/12/2007	77.11	27.65	27.69	0.04	NC
MW-9	04/14/2008	77.11	-----	27.87	-----	49.24
MW-9	10/13/2008	77.11	-----	28.43	-----	48.68
MW-9	04/20/2009	77.11	-----	28.14	-----	48.97
MW-9	10/19/2009	77.11	29.36	29.40	0.04	NC
MW-9	05/24/2010	77.11	-----	29.11	-----	48.00
MW-9	05/28/2010	77.11	-----	29.04	-----	48.07
MW-9	10/04/2010	77.11	-----	29.35	-----	47.76
MW-9	04/11/2011	77.11	-----	28.18	-----	48.93
MW-9	10/10/2011	77.11	-----	28.66	-----	48.45
MW-9	04/16/2012	77.11	-----	30.22	-----	46.89
MW-9	10/15/2012	77.11	-----	31.30	-----	45.81
MW-9	04/08/2013	77.11	-----	31.40	-----	45.71
MW-9	10/07/2013	77.11	-----	31.95	-----	45.16
MW-9	04/14/2014	77.11	-----	32.55	-----	44.56
MW-9	10/27/2014	77.11	-----	32.89	-----	44.22
MW-9	04/20/2015	77.11	-----	33.24	-----	43.87
MW-9	10/19/2015	77.11	-----	34.05	-----	43.06
MW-9	04/11/2016	77.11	-----	35.43	-----	41.68
MW-9	10/3/2016	77.11	-----	33.56	-----	43.55
MW-9	4/17/2017	77.11	-----	31.80	-----	45.31
MW-9	10/2/2017	77.11	-----	36.45	-----	40.66
MW-10	05/28/1996	79.12	-----	32.22	-----	46.90
MW-10	11/20/1996	79.12	-----	32.80	-----	46.32
MW-10	07/01/1997	79.12	-----	32.86	-----	46.26
MW-10	12/31/1997	79.12	-----	32.92	-----	46.20
MW-10	05/01/1998	79.12	-----	30.28	-----	48.84
MW-10	05/25/1999	79.12	-----	30.79	-----	48.33
MW-10	05/15/2000	79.12	-----	32.32	-----	46.80
MW-10	11/13/2000	79.12	-----	30.90	-----	48.22
MW-10	05/07/2001	79.12	-----	31.21	-----	47.91
MW-10	04/08/2002	79.12	-----	31.91	-----	47.21

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
MW-10	10/21/2002	79.12	----	31.53	----	47.59
MW-10	04/07/2003	79.12	----	31.15	----	47.97
MW-10	10/06/2003	79.12	----	31.11	----	48.01
MW-10	04/19/2004	79.12	----	32.12	----	47.00
MW-10	11/01/2004	79.12	----	31.96	----	47.16
MW-10	05/02/2005	79.12	----	27.68	----	51.44
MW-10	03/06/2006	79.12	----	28.44	----	50.68
MW-10	05/01/2006	79.12	----	28.87	----	50.25
MW-10	08/26/2006	79.12	----	29.17	----	49.95
MW-10	12/01/2006	79.12	----	29.52	----	49.60
MW-10	03/21/2007	79.12	----	29.71	----	49.41
MW-10	04/27/2007	79.12	----	29.90	----	49.22
MW-10	08/28/2007	79.12	----	30.22	----	48.90
MW-10	11/12/2007	79.12	----	30.50	----	48.62
MW-10	02/05/2008	79.12	----	30.90	----	48.22
MW-10	04/11/2008	79.12	----	30.31	----	48.81
MW-10	07/24/2008	79.12	----	30.48	----	48.64
MW-10	10/13/2008	79.12	----	31.39	----	47.73
MW-10	02/09/2009	79.12	----	30.05	----	49.07
MW-10	07/16/2009	79.12	----	31.42	----	47.70
MW-10	04/07/2010	79.12	----	32.00	----	47.12
MW-10	10/01/2010	79.12	----	32.09	----	47.03
MW-10	01/06/2011	79.12	----	32.22	----	46.90
MW-10	04/08/2011	79.12	----	31.24	----	47.88
MW-10	07/07/2011	79.12	----	31.37	----	47.75
MW-10	10/06/2011	79.12	----	31.71	----	47.41
MW-10	04/12/2012	79.12	----	32.63	----	46.49
MW-10	01/10/2013	79.12	----	33.78	----	45.34
MW-10	04/02/2013	79.12	----	33.70	----	45.42
MW-10	04/07/2014	79.12	----	35.23	----	43.89
MW-10	04/14/2016	79.12	----	37.01	----	42.11
MW-11	05/28/1996	78.17	27.63	30.52	2.89	NC
MW-11	11/20/1996	78.17	31.31	33.60	2.29	NC
MW-11	07/01/1997	78.17	31.89	34.15	2.26	NC
MW-11	12/31/1997	78.17	31.42	33.49	2.07	NC
MW-11	05/01/1998	78.17	26.96	28.75	1.79	NC
MW-11	05/25/1999	78.17	29.93	29.95	0.02	NC
MW-11	05/15/2000	78.17	----	29.88	----	48.29
MW-11	11/13/2000	78.17	----	31.47	----	46.70
MW-11	05/07/2001	78.17	----	28.95	----	49.22
MW-11	04/08/2002	78.17	----	30.70	----	47.47
MW-11	10/21/2002	78.17	----	29.98	----	48.19
MW-11	04/07/2003	78.17	----	29.95	----	48.22
MW-11	10/06/2003	78.17	----	30.36	----	47.81

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
MW-11	04/19/2004	78.17	----	31.94	----	46.23
MW-11	11/01/2004	78.17	----	30.80	----	47.37
MW-11	05/02/2005	78.17	----	26.97	----	51.20
MW-11	05/01/2006	78.17	----	27.86	----	50.31
MW-11	08/26/2006	78.17	----	28.28	----	49.89
MW-11	12/01/2006	78.17	----	28.56	----	49.61
MW-11	04/30/2007	78.17	----	28.94	----	49.23
MW-11	11/12/2007	78.17	----	29.50	----	48.67
MW-11	04/11/2008	78.17	----	29.15	----	49.02
MW-11	10/14/2008	78.17	----	30.18	----	47.99
MW-11	04/20/2009	78.17	----	30.00	----	48.17
MW-11	10/19/2009	78.17	----	30.91	----	47.26
MW-11	04/07/2010	78.17	----	30.72	----	47.45
MW-11	04/12/2010	78.17	----	30.55	----	47.62
MW-11	10/01/2010	78.17	----	30.97	----	47.20
MW-11	01/07/2011	78.17	----	31.12	----	47.05
MW-11	04/12/2012	78.17	----	31.52	----	46.65
MW-11	04/19/2012	78.17	----	31.34	----	46.83
MW-11	04/05/2013	78.17	----	32.71	----	45.46
MW-12	05/28/1996	75.76	----	28.18	----	47.58
MW-12	11/20/1996	75.76	----	28.97	----	46.79
MW-12	07/01/1997	75.76	----	29.49	----	46.27
MW-12	12/31/1997	75.76	----	28.98	----	46.78
MW-12	05/01/1998	75.76	----	26.27	----	49.49
MW-12	05/04/1999	75.76	----	27.53	----	48.23
MW-12	11/15/1999	75.76	----	27.65	----	48.11
MW-12	05/15/2000	75.76	----	30.34	----	45.42
MW-12	11/13/2000	75.76	----	27.38	----	48.38
MW-12	11/13/2000	75.76	----	27.44	----	48.32
MW-12	05/07/2001	75.76	----	26.72	----	49.04
MW-12	11/05/2001	75.76	----	26.75	----	49.01
MW-12	04/08/2002	75.76	----	27.52	----	48.24
MW-12	04/08/2002	75.76	----	27.70	----	48.06
MW-12	10/21/2002	75.76	----	28.08	----	47.68
MW-12	10/21/2002	75.76	----	28.09	----	47.67
MW-12	04/07/2003	75.76	----	27.77	----	47.99
MW-12	10/06/2003	75.76	----	27.60	----	48.16
MW-12	01/11/2004	75.76	----	29.91	----	45.85
MW-12	04/19/2004	75.76	----	28.71	----	47.05
MW-12	05/02/2005	75.76	----	23.42	----	52.34
MW-12	05/02/2005	75.76	----	23.56	----	52.20
MW-12	10/31/2005	75.76	----	25.61	----	50.15
MW-12	05/01/2006	75.76	----	24.85	----	50.91
MW-12	05/01/2006	75.76	----	25.09	----	50.67

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
MW-12	12/01/2006	75.76	----	25.65	----	50.11
MW-12	12/04/2006	75.76	----	25.69	----	50.07
MW-12	04/30/2007	75.76	----	25.80	----	49.96
MW-12	04/30/2007	75.76	----	26.25	----	49.51
MW-12	11/12/2007	75.76	----	27.12	----	48.64
MW-12	11/12/2007	75.76	----	26.23	----	49.53
MW-12	04/11/2008	75.76	----	26.69	----	49.07
MW-12	04/14/2008	75.76	----	29.47	----	46.29
MW-12	10/13/2008	75.76	----	27.30	----	48.46
MW-12	10/14/2008	75.76	----	27.59	----	48.17
MW-12	04/20/2009	75.76	----	27.34	----	48.42
MW-12	10/19/2009	75.76	----	28.88	----	46.88
MW-12	04/08/2010	75.76	----	27.93	----	47.83
MW-12	05/24/2010	75.76	----	28.16	----	47.60
MW-12	05/28/2010	75.76	----	28.10	----	47.66
MW-12	10/04/2010	75.76	----	28.21	----	47.55
MW-12	04/11/2011	75.76	----	27.14	----	48.62
MW-12	10/10/2011	75.76	----	27.92	----	47.84
MW-12	04/16/2012	75.76	----	29.10	----	46.66
MW-12	10/15/2012	75.76	----	30.31	----	45.45
MW-12	04/08/2013	75.76	----	30.53	----	45.23
MW-12	10/07/2013	75.76	----	31.02	----	44.74
MW-12	04/14/2014	75.76	----	31.61	----	44.15
MW-12	10/27/2014	75.76	----	31.88	----	43.88
MW-12	04/20/2015	75.76	----	32.39	----	43.37
MW-12	11/06/2015	75.76	----	34.12	----	41.64
MW-12	04/11/2016	75.76	----	34.56	----	41.20
MW-12	10/3/2016	75.76	----	35.84	----	39.92
MW-12	4/17/2017	75.76	----	32.97	----	42.79
MW-12	10/2/2017	75.76	----	35.85	----	39.91
MW-13	05/28/1996	78.25	----	30.80	----	47.45
MW-13	11/20/1996	78.25	----	31.60	----	46.65
MW-13	07/01/1997	78.25	----	30.70	----	47.55
MW-13	12/31/1997	78.25	----	31.24	----	47.01
MW-13	05/01/1998	78.25	----	28.22	----	50.03
MW-13	05/25/1999	78.25	----	29.19	----	49.06
MW-13	05/15/2000	78.25	----	29.95	----	48.30
MW-13	11/13/2000	78.25	----	27.21	----	51.04
MW-13	02/05/2001	78.25	----	29.42	----	48.83
MW-13	05/07/2001	78.25	----	28.95	----	49.30
MW-13	04/08/2002	78.25	----	30.33	----	47.92
MW-13	09/19/2002	78.25	----	30.73	----	47.52
MW-13	10/21/2002	78.25	----	30.88	----	47.37
MW-13	04/07/2003	78.25	----	30.05	----	48.20

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
MW-13	10/06/2003	78.25	----	29.76	----	48.49
MW-13	04/19/2004	78.25	----	30.50	----	47.75
MW-13	11/01/2004	78.25	----	30.85	----	47.40
MW-13	02/28/2005	78.25	----	27.54	----	50.71
MW-13	05/02/2005	78.25	----	25.62	----	52.63
MW-13	03/06/2006	78.25	----	27.70	----	50.55
MW-13	05/01/2006	78.25	----	27.70	----	50.55
MW-13	08/26/2006	78.25	----	28.04	----	50.21
MW-13	12/01/2006	78.25	----	28.49	----	49.76
MW-13	03/21/2007	78.25	----	28.58	----	49.67
MW-13	04/27/2007	78.25	----	29.00	----	49.25
MW-13	08/28/2007	78.25	----	29.10	----	49.15
MW-13	11/12/2007	78.25	----	29.46	----	48.79
MW-13	02/05/2008	78.25	----	30.00	----	48.25
MW-13	04/11/2008	78.25	----	29.23	----	49.02
MW-13	07/24/2008	78.25	----	29.71	----	48.54
MW-13	10/13/2008	78.25	----	30.50	----	47.75
MW-13	02/09/2009	78.25	----	29.88	----	48.37
MW-13	04/20/2009	78.25	----	30.00	----	48.25
MW-13	07/16/2009	78.25	----	30.51	----	47.74
MW-13	10/19/2009	78.25	----	30.85	----	47.40
MW-13	04/07/2010	78.25	----	30.83	----	47.42
MW-13	04/12/2010	78.25	----	30.82	----	47.43
MW-13	01/06/2011	78.25	----	31.27	----	46.98
MW-13	04/07/2011	78.25	----	29.93	----	48.32
MW-13	07/07/2011	78.25	----	30.19	----	48.06
MW-13	10/06/2011	78.25	----	30.78	----	47.47
MW-13	04/12/2012	78.25	----	31.76	----	46.49
MW-13	04/17/2012	78.25	----	31.46	----	46.79
MW-13	01/10/2013	78.25	----	32.78	----	45.47
MW-13	04/02/2013	78.25	----	32.76	----	45.49
MW-13	04/08/2013	78.25	----	32.75	----	45.50
MW-13	10/01/2013	78.25	----	33.48	----	44.77
MW-13	04/09/2014	78.25	----	34.03	----	44.22
MW-13	04/15/2014	78.25	----	33.93	----	44.32
MW-13	10/27/2014	78.25	----	34.39	----	43.86
MW-13	04/20/2015	78.25	----	34.42	----	43.83
MW-13	10/19/2015	78.25	----	35.52	----	42.73
MW-13	04/12/2016	78.25	----	36.02	----	42.23
MW-13	10/3/2016	78.25	----	36.45	----	41.80
MW-13	4/17/2017	78.25	----	35.65	----	42.60
MW-13	10/3/2017	78.25	----	36.48	----	41.77
MW-14	05/28/1996	78.60	----	32.31	----	46.29
MW-14	11/20/1996	78.60	----	32.52	----	46.08

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HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
MW-14	07/01/1997	78.60	----	33.64	----	44.96
MW-14	12/31/1997	78.60	----	32.91	----	45.69
MW-14	05/01/1998	78.60	----	30.93	----	47.67
MW-14	02/03/1999	78.60	----	30.99	----	47.61
MW-14	05/07/1999	78.60	----	31.84	----	46.76
MW-14	05/25/1999	78.60	----	30.85	----	47.75
MW-14	08/09/1999	78.60	----	32.23	----	46.37
MW-14	02/29/2000	78.60	----	31.43	----	47.17
MW-14	05/15/2000	78.60	----	31.22	----	47.38
MW-14	08/28/2000	78.60	----	31.78	----	46.82
MW-14	11/13/2000	78.60	----	31.72	----	46.88
MW-14	02/05/2001	78.60	----	31.25	----	47.35
MW-14	05/07/2001	78.60	----	30.55	----	48.05
MW-14	09/18/2001	78.60	----	30.42	----	48.18
MW-14	01/29/2002	78.60	----	30.89	----	47.71
MW-14	04/08/2002	78.60	----	31.22	----	47.38
MW-14	07/29/2002	78.60	----	31.02	----	47.58
MW-14	10/21/2002	78.60	----	31.08	----	47.52
MW-14	01/27/2003	78.60	----	30.78	----	47.82
MW-14	04/07/2003	78.60	----	30.90	----	47.70
MW-14	10/06/2003	78.60	----	30.96	----	47.64
MW-14	04/19/2004	78.60	----	31.51	----	47.09
MW-14	11/01/2004	78.60	----	31.61	----	46.99
MW-14	02/28/2005	78.60	----	29.79	----	48.81
MW-14	05/02/2005	78.60	----	28.31	----	50.29
MW-14	03/06/2006	78.60	----	28.34	----	50.26
MW-14	05/01/2006	78.60	----	28.76	----	49.84
MW-14	08/26/2006	78.60	----	28.89	----	49.71
MW-14	12/01/2006	78.60	----	29.15	----	49.45
MW-14	03/21/2007	78.60	----	29.21	----	49.39
MW-14	04/30/2007	78.60	----	29.44	----	49.16
MW-14	08/28/2007	78.60	----	29.77	----	48.83
MW-14	11/12/2007	78.60	----	29.91	----	48.69
MW-14	02/05/2008	78.60	----	30.24	----	48.36
MW-14	04/11/2008	78.60	----	29.73	----	48.87
MW-14	07/24/2008	78.60	----	30.21	----	48.39
MW-14	10/13/2008	78.60	----	30.71	----	47.89
MW-14	02/09/2009	78.60	----	30.77	----	47.83
MW-14	04/20/2009	78.60	----	30.80	----	47.80
MW-14	07/16/2009	78.60	----	31.21	----	47.39
MW-14	07/20/2009	78.60	----	31.31	----	47.29
MW-14	10/19/2009	78.60	----	31.43	----	47.17
MW-14	01/11/2010	78.60	----	31.94	----	46.66
MW-14	04/07/2010	78.60	----	31.79	----	46.81

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HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
MW-14	04/12/2010	78.60	----	31.44	----	47.16
MW-14	01/06/2011	78.60	----	32.86	----	45.74
MW-14	04/06/2011	78.60	----	31.13	----	47.47
MW-14	07/07/2011	78.60	----	31.13	----	47.47
MW-14	10/06/2011	78.60	----	31.31	----	47.29
MW-14	01/09/2012	78.60	----	31.40	----	47.20
MW-14	04/12/2012	78.60	----	32.07	----	46.53
MW-14	04/18/2012	78.60	----	31.83	----	46.77
MW-14	01/11/2013	78.60	----	33.24	----	45.36
MW-14	04/02/2013	78.60	----	33.13	----	45.47
MW-14	04/08/2013	78.60	----	33.80	----	44.80
MW-14	10/01/2013	78.60	----	33.90	----	44.70
MW-14	04/07/2014	78.60	----	34.98	----	43.62
MW-14	10/27/2014	78.60	----	35.03	----	43.57
MW-14	04/20/2015	78.60	----	35.38	----	43.22
MW-14	10/19/2015	78.60	----	36.12	----	42.48
MW-14	04/11/2016	78.60	----	36.49	----	42.11
MW-14	10/3/2016	78.60	----	36.37	----	42.23
MW-14	4/17/2017	78.60	----	36.99	----	41.61
MW-14	10/2/2017	78.60	----	37.31	----	41.29
MW-15	05/28/1996	76.99	----	28.96	----	48.03
MW-15	11/20/1996	76.99	----	29.78	----	47.21
MW-15	07/01/1997	76.99	----	29.53	----	47.46
MW-15	12/31/1997	76.99	----	29.90	----	47.09
MW-15	05/01/1998	76.99	----	26.57	----	50.42
MW-15	05/03/1999	76.99	----	28.06	----	48.93
MW-15	08/09/1999	76.99	----	28.35	----	48.64
MW-15	11/15/1999	76.99	----	28.59	----	48.40
MW-15	05/15/2000	76.99	----	28.36	----	48.63
MW-15	11/13/2000	76.99	----	29.05	----	47.94
MW-15	05/07/2001	76.99	----	27.36	----	49.63
MW-15	11/05/2001	76.99	----	27.64	----	49.35
MW-15	04/08/2002	76.99	----	28.39	----	48.60
MW-15	07/29/2002	76.99	----	29.04	----	47.95
MW-15	10/21/2002	76.99	29.14	29.15	0.01	NC
MW-15	04/07/2003	76.99	28.51	28.52	0.01	NC
MW-15	10/06/2003	76.99	28.38	28.39	0.01	NC
MW-15	01/11/2004	76.99	29.55	29.64	0.09	NC
MW-15	04/19/2004	76.99	27.60	27.61	0.01	NC
MW-15	05/02/2005	76.99	22.88	22.93	0.05	NC
MW-15	10/31/2005	76.99	27.60	27.81	0.21	NC
MW-15	05/01/2006	76.99	----	25.92	----	51.07
MW-15	12/04/2006	76.99	----	26.76	----	50.23
MW-15	04/30/2007	76.99	----	28.17	----	48.82

APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
MW-15	11/12/2007	76.99	27.02	28.25	1.23	NC
MW-15	04/14/2008	76.99	27.40	28.37	0.97	NC
MW-15	04/14/2008	76.99	27.33	28.31	0.98	NC
MW-15	10/13/2008	76.99	-----	29.05	-----	47.94
MW-15	04/20/2009	76.99	28.24	28.98	0.74	NC
MW-15	10/19/2009	76.99	29.21	30.37	1.16	NC
MW-15	05/24/2010	76.99	28.60	29.49	0.89	NC
MW-15	05/28/2010	76.99	28.57	29.46	0.89	NC
MW-15	10/04/2010	76.99	29.14	30.19	1.05	NC
MW-15	04/11/2011	76.99	28.16	28.62	0.46	NC
MW-15	10/10/2011	76.99	28.59	29.30	0.71	47.69
MW-15	04/27/2012	76.99	-----	31.50	-----	45.49
MW-15	10/15/2012	76.99	31.36	32.38	1.02	NC
MW-15	04/08/2013	76.99	31.44	32.40	0.96	NC
MW-15	10/07/2013	76.99	31.87	32.18	0.31	NC
MW-15	04/14/2014	76.99	32.59	32.70	0.11	NC
MW-15	10/27/2014	76.99	-----	33.33	-----	43.66
MW-15	Well decommissioned in December 2014 prior to remedial excavation					
MW-15R	4/17/2017	74.85	-----	34.41	-----	40.44
MW-15R	10/2/2017	74.85	-----	34.58	-----	40.27
MW-16	05/28/1996	76.87	-----	28.85	-----	48.02
MW-16	11/20/1996	76.87	-----	29.84	-----	47.03
MW-16	07/01/1997	76.87	-----	28.17	-----	48.70
MW-16	12/31/1997	76.87	-----	28.47	-----	48.40
MW-16	05/01/1998	76.87	-----	23.99	-----	52.88
MW-16	05/25/1999	76.87	-----	27.49	-----	49.38
MW-16	05/15/2000	76.87	-----	28.17	-----	48.70
MW-16	11/13/2000	76.87	-----	28.83	-----	48.04
MW-16	05/07/2001	76.87	-----	27.05	-----	49.82
MW-16	02/01/2002	76.87	-----	27.46	-----	49.41
MW-16	04/08/2002	76.87	-----	28.36	-----	48.51
MW-16	10/21/2002	76.87	-----	28.97	-----	47.90
MW-16	01/27/2003	76.87	-----	28.62	-----	48.25
MW-16	04/07/2003	76.87	-----	28.22	-----	48.65
MW-16	07/30/2003	76.87	-----	27.87	-----	49.00
MW-16	10/06/2003	76.87	-----	28.00	-----	48.87
MW-16	01/27/2004	76.87	-----	28.56	-----	48.31
MW-16	04/19/2004	76.87	-----	28.79	-----	48.08
MW-16	07/19/2004	76.87	-----	28.79	-----	48.08
MW-16	11/01/2004	76.87	-----	29.50	-----	47.37
MW-16	02/01/2005	76.87	-----	27.16	-----	49.71
MW-16	05/02/2005	76.87	-----	23.28	-----	53.59
MW-16	08/01/2005	76.87	-----	24.36	-----	52.51
MW-16	03/06/2006	76.87	-----	25.92	-----	50.95

**APPENDIX D
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Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
MW-16	05/01/2006	76.87	----	25.85	----	51.02
MW-16	08/26/2006	76.87	----	26.32	----	50.55
MW-16	09/18/2006	76.87	----	26.32	----	50.55
MW-16	12/01/2006	76.87	----	26.83	----	50.04
MW-16	03/21/2007	76.87	----	27.15	----	49.72
MW-16	04/30/2007	76.87	----	27.27	----	49.60
MW-16	08/28/2007	76.87	----	27.85	----	49.02
MW-16	11/12/2007	76.87	----	27.84	----	49.03
MW-16	02/05/2008	76.87	----	28.88	----	47.99
MW-16	04/14/2008	76.87	----	27.34	----	49.53
MW-16	07/24/2008	76.87	----	28.01	----	48.86
MW-16	10/14/2008	76.87	----	28.58	----	48.29
MW-16	02/10/2009	76.87	----	28.54	----	48.33
MW-16	04/20/2009	76.87	----	28.22	----	48.65
MW-16	07/16/2009	76.87	----	29.12	----	47.75
MW-16	10/19/2009	76.87	----	29.30	----	47.57
MW-16	04/08/2010	76.87	----	28.71	----	48.16
MW-16	04/12/2010	76.87	----	28.83	----	48.04
MW-16	01/08/2011	76.87	----	29.63	----	47.24
MW-16	04/07/2011	76.87	----	27.99	----	48.88
MW-16	07/08/2011	76.87	----	28.34	----	48.53
MW-16	10/06/2011	76.87	----	28.95	----	47.92
MW-16	04/12/2012	76.87	----	30.16	----	46.71
MW-16	04/17/2012	76.87	----	29.84	----	47.03
MW-16	01/10/2013	76.87	----	31.47	----	45.40
MW-16	04/03/2013	76.87	----	31.53	----	45.34
MW-16	04/08/2013	76.87	----	31.51	----	45.36
MW-16	10/02/2013	76.87	----	32.14	----	44.73
MW-16	04/09/2014	76.87	----	32.68	----	44.19
MW-16	04/09/2014	76.87	----	32.68	----	44.19
MW-16	10/27/2014	77.87	----	32.84	----	45.03
MW-16	04/20/2015	76.87	----	33.24	----	43.63
MW-16	10/19/2015	76.87	----	34.06	----	42.81
MW-16	04/12/2016	76.87	----	34.91	----	41.96
MW-16	10/3/2016	76.87	----	35.42	----	41.45
MW-16	4/18/2017	76.87	----	33.81	----	43.06
MW-16	10/3/2017	76.87	----	35.26	----	41.61
MW-17	05/28/1996	77.86	----	29.91	----	47.95
MW-17	11/20/1996	77.86	----	30.83	----	47.03
MW-17	07/01/1997	77.86	----	29.40	----	48.46
MW-17	12/31/1997	77.86	----	30.31	----	47.55
MW-17	05/01/1998	77.86	----	26.49	----	51.37
MW-17	05/25/1999	77.86	----	28.44	----	49.42
MW-17	05/15/2000	77.86	----	29.09	----	48.77

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
MW-17	11/13/2000	77.86	----	30.74	----	47.12
MW-17	05/07/2001	77.86	----	27.81	----	50.05
MW-17	04/08/2002	77.86	----	29.16	----	48.70
MW-17	10/21/2002	77.86	----	30.20	----	47.66
MW-17	04/07/2003	77.86	----	29.05	----	48.81
MW-17	10/06/2003	77.86	----	28.90	----	48.96
MW-17	04/19/2004	77.86	----	29.72	----	48.14
MW-17	11/01/2004	77.86	----	30.33	----	47.53
MW-17	05/02/2005	77.86	----	24.30	----	53.56
MW-17	03/06/2006	77.86	----	26.85	----	51.01
MW-17	05/01/2006	77.86	----	26.90	----	50.96
MW-17	08/26/2006	77.86	----	27.41	----	50.45
MW-17	12/01/2006	77.86	----	27.90	----	49.96
MW-17	03/21/2007	77.86	----	27.99	----	49.87
MW-17	04/27/2007	77.86	----	28.45	----	49.41
MW-17	08/28/2007	77.86	----	28.45	----	49.41
MW-17	11/12/2007	77.86	----	28.91	----	48.95
MW-17	02/05/2008	77.86	----	29.46	----	48.40
MW-17	04/11/2008	77.86	----	28.51	----	49.35
MW-17	07/24/2008	77.86	----	29.11	----	48.75
MW-17	10/13/2008	77.86	----	30.00	----	47.86
MW-17	02/09/2009	77.86	----	29.36	----	48.50
MW-17	04/20/2009	77.86	----	29.31	----	48.55
MW-17	07/16/2009	77.86	----	32.25	----	45.61
MW-17	10/19/2009	77.86	----	30.72	----	47.14
MW-17	04/07/2010	77.86	----	29.92	----	47.94
MW-17	04/12/2010	77.86	----	29.92	----	47.94
MW-17	01/06/2011	77.86	----	30.93	----	46.93
MW-17	04/07/2011	77.86	----	28.97	----	48.89
MW-17	07/07/2011	77.86	----	29.49	----	48.37
MW-17	10/06/2011	77.86	----	30.17	----	47.69
MW-17	04/12/2012	77.86	----	31.35	----	46.51
MW-17	04/17/2012	77.86	----	30.99	----	46.87
MW-17	01/10/2013	77.86	----	32.34	----	45.52
MW-17	04/02/2013	77.86	----	32.44	----	45.42
MW-17	04/08/2013	77.86	----	32.43	----	45.43
MW-17	10/01/2013	77.86	----	33.07	----	44.79
MW-17	04/09/2014	77.86	----	33.45	----	44.41
MW-17	04/16/2014	77.86	----	33.02	----	44.84
MW-17	10/27/2014	77.86	----	33.76	----	44.10
MW-17	04/20/2015	77.86	----	34.06	----	43.80
MW-17	10/19/2015	77.86	----	34.97	----	42.89
MW-17	04/13/2016	77.86	----	35.57	----	42.29
MW-17	10/3/2016	77.86	----	36.05	----	41.81

**APPENDIX D
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15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
MW-17	4/18/2017	77.86	----	35.22	----	42.64
MW-17	10/3/2017	77.86	----	35.78	----	42.08
MW-18 (MID)	05/28/1996	75.67	33.20	33.81	0.61	NC
MW-18 (MID)	11/20/1996	75.67	----	32.82	----	42.85
MW-18 (MID)	07/01/1997	75.67	----	29.10	----	46.57
MW-18 (MID)	12/31/1997	75.67	32.67	33.25	0.58	NC
MW-18 (MID)	05/01/1998	75.67	29.81	29.83	0.02	NC
MW-18 (MID)	08/09/1999	75.67	----	31.33	----	44.34
MW-18 (MID)	11/19/1999	75.67	----	31.86	----	43.81
MW-18 (MID)	05/15/2000	75.67	----	24.58	----	51.09
MW-18 (MID)	11/13/2000	75.67	----	26.78	----	48.89
MW-18 (MID)	05/07/2001	75.67	----	30.38	----	45.29
MW-18 (MID)	08/07/2001	75.67	----	30.46	----	45.21
MW-18 (MID)	11/05/2001	75.67	----	30.66	----	45.01
MW-18 (MID)	04/08/2002	75.67	----	31.22	----	44.45
MW-18 (MID)	10/21/2002	75.67	----	32.24	----	43.43
MW-18 (MID)	10/06/2003	75.67	----	31.42	----	44.25
MW-18 (MID)	04/19/2004	75.67	----	32.34	----	43.33
MW-18 (MID)	05/02/2005	75.67	----	27.67	----	48.00
MW-18 (MID)	10/31/2005	75.67	----	25.96	----	49.71
MW-18 (MID)	05/01/2006	75.67	----	28.92	----	46.75
MW-18 (MID)	12/04/2006	75.67	----	29.74	----	45.93
MW-18 (MID)	04/30/2007	75.67	----	29.77	----	45.90
MW-18 (MID)	11/12/2007	75.67	----	30.23	----	45.44
MW-18 (MID)	04/14/2008	75.67	----	30.45	----	45.22
MW-18 (MID)	10/13/2008	75.67	----	31.15	----	44.52
MW-18 (MID)	04/20/2009	75.67	----	31.49	----	44.18
MW-18 (MID)	10/19/2009	75.67	----	32.62	----	43.05
MW-18 (MID)	05/24/2010	75.67	----	32.26	----	43.41
MW-18 (MID)	05/28/2010	75.67	----	32.17	----	43.50
MW-18 (MID)	04/11/2011	75.67	----	31.28	----	44.39
MW-18 (MID)	10/10/2011	75.67	----	31.51	----	44.16
MW-18 (MID)	04/16/2012	75.67	----	31.75	----	43.92
MW-18 (MID)	10/15/2012	75.67	----	33.41	----	42.26
MW-18 (MID)	04/08/2013	75.67	----	30.68	----	44.99
MW-18 (MID)	10/07/2013	75.67	----	35.33	----	40.34
MW-18 (MID)	04/14/2014	75.67	----	35.40	----	40.27
MW-18 (MID)	10/27/2014	75.67	----	35.81	----	39.86
MW-18 (MID)	04/20/2015	75.67	----	36.29	----	39.38
MW-18 (MID)	10/19/2015	75.67	----	36.99	----	38.68
MW-18 (MID)	04/11/2016	75.67	----	38.89	----	36.78
MW-18 (MID)	10/3/2016	75.67	----	40.93	----	34.74
MW-18 (MID)	4/17/2017	75.67	----	37.50	----	38.17
MW-18 (MID)	10/2/2017	75.67	----	40.26	----	35.41

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
MW-19 (MID)	05/28/1996	78.14	----	31.52	----	46.62
MW-19 (MID)	11/20/1996	78.14	----	32.04	----	46.10
MW-19 (MID)	07/01/1997	78.14	----	33.51	----	44.63
MW-19 (MID)	12/31/1997	78.14	----	33.72	----	44.42
MW-19 (MID)	05/01/1998	78.14	----	29.48	----	48.66
MW-19 (MID)	02/03/1999	78.14	----	29.05	----	49.09
MW-19 (MID)	05/03/1999	78.14	----	30.91	----	47.23
MW-19 (MID)	08/09/1999	78.14	----	30.90	----	47.24
MW-19 (MID)	11/15/1999	78.14	----	30.63	----	47.51
MW-19 (MID)	02/29/2000	78.14	----	29.59	----	48.55
MW-19 (MID)	05/15/2000	78.14	----	25.27	----	52.87
MW-19 (MID)	08/28/2000	78.14	----	32.23	----	45.91
MW-19 (MID)	11/13/2000	78.14	----	31.90	----	46.24
MW-19 (MID)	02/05/2001	78.14	----	30.55	----	47.59
MW-19 (MID)	05/07/2001	78.14	----	29.82	----	48.32
MW-19 (MID)	09/18/2001	78.14	----	29.81	----	48.33
MW-19 (MID)	11/05/2001	78.14	----	29.71	----	48.43
MW-19 (MID)	01/29/2002	78.14	----	30.00	----	48.14
MW-19 (MID)	04/08/2002	78.14	----	30.12	----	48.02
MW-19 (MID)	10/21/2002	78.14	----	41.44	----	36.70
MW-19 (MID)	04/07/2003	78.14	----	31.94	----	46.20
MW-19 (MID)	10/06/2003	78.14	----	31.10	----	47.04
MW-19 (MID)	01/11/2004	78.14	----	32.97	----	45.17
MW-19 (MID)	04/19/2004	78.14	----	33.87	----	44.27
MW-19 (MID)	05/02/2005	78.14	----	28.00	----	50.14
MW-19 (MID)	10/31/2005	78.14	----	28.35	----	49.79
MW-19 (MID)	05/01/2006	78.14	----	28.70	----	49.44
MW-19 (MID)	12/04/2006	78.14	----	29.65	----	48.49
MW-19 (MID)	04/30/2007	78.14	----	29.68	----	48.46
MW-19 (MID)	11/12/2007	78.14	----	30.44	----	47.70
MW-19 (MID)	04/14/2008	78.14	----	30.70	----	47.44
MW-19 (MID)	10/13/2008	78.14	----	32.63	----	45.51
MW-19 (MID)	04/20/2009	78.14	----	31.75	----	46.39
MW-19 (MID)	10/19/2009	78.14	----	32.88	----	45.26
MW-19 (MID)	05/24/2010	78.14	----	33.16	----	44.98
MW-19 (MID)	05/28/2010	78.14	----	33.11	----	45.03
MW-19 (MID)	04/11/2011	78.14	----	32.64	----	45.50
MW-19 (MID)	10/10/2011	78.14	----	32.64	----	45.50
MW-19 (MID)	04/16/2012	78.14	----	33.42	----	44.72
MW-19 (MID)	10/15/2012	78.14	----	34.29	----	43.85
MW-19 (MID)	04/08/2013	78.14	----	34.81	----	43.33
MW-19 (MID)	10/07/2013	78.14	----	36.14	----	42.00
MW-19 (MID)	04/14/2014	78.14	----	36.37	----	41.77
MW-19 (MID)	10/27/2014	78.14	----	37.09	----	41.05

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
MW-19 (MID)	04/20/2015	78.14	----	37.61	----	40.53
MW-19 (MID)	10/19/2015	78.14	----	38.26	----	39.88
MW-19 (MID)	04/11/2016	78.14	----	32.97	----	45.17
MW-19 (MID)	10/3/2016	78.14	----	40.60	----	37.54
MW-19 (MID)	4/17/2017	78.14	----	38.62	----	39.52
MW-19 (MID)	10/2/2017	78.14	----	40.50	----	37.64
MW-20 (MID)	05/28/1996	77.19	----	31.42	----	45.77
MW-20 (MID)	11/20/1996	77.19	----	31.98	----	45.21
MW-20 (MID)	07/01/1997	77.19	----	33.31	----	43.88
MW-20 (MID)	12/31/1997	77.19	----	32.89	----	44.30
MW-20 (MID)	05/01/1998	77.19	----	29.81	----	47.38
MW-20 (MID)	05/03/1999	77.19	----	30.63	----	46.56
MW-20 (MID)	08/09/1999	77.19	----	31.07	----	46.12
MW-20 (MID)	11/15/1999	77.19	----	31.00	----	46.19
MW-20 (MID)	05/15/2000	77.19	----	30.65	----	46.54
MW-20 (MID)	11/13/2000	77.19	----	32.10	----	45.09
MW-20 (MID)	05/07/2001	77.19	----	30.14	----	47.05
MW-20 (MID)	09/18/2001	77.19	----	30.15	----	47.04
MW-20 (MID)	11/05/2001	77.19	----	30.09	----	47.10
MW-20 (MID)	04/08/2002	77.19	----	36.14	----	41.05
MW-20 (MID)	04/08/2002	77.19	----	30.82	----	46.37
MW-20 (MID)	10/21/2002	77.19	----	31.12	----	46.07
MW-20 (MID)	04/07/2003	77.19	----	31.25	----	45.94
MW-20 (MID)	10/06/2003	77.19	----	31.35	----	45.84
MW-20 (MID)	01/11/2004	77.19	----	32.33	----	44.86
MW-20 (MID)	04/19/2004	77.19	----	32.04	----	45.15
MW-20 (MID)	05/02/2005	77.19	----	28.73	----	48.46
MW-20 (MID)	10/31/2005	77.19	----	28.61	----	48.58
MW-20 (MID)	05/01/2006	77.19	----	28.65	----	48.54
MW-20 (MID)	12/04/2006	77.19	----	29.37	----	47.82
MW-20 (MID)	04/30/2007	77.19	----	29.35	----	47.84
MW-20 (MID)	11/12/2007	77.19	----	29.98	----	47.21
MW-20 (MID)	04/14/2008	77.19	----	30.21	----	46.98
MW-20 (MID)	10/13/2008	77.19	----	30.93	----	46.26
MW-20 (MID)	04/20/2009	77.19	----	31.09	----	46.10
MW-20 (MID)	10/19/2009	77.19	----	32.11	----	45.08
MW-20 (MID)	05/24/2010	77.19	----	32.33	----	44.86
MW-20 (MID)	05/28/2010	77.19	----	32.29	----	44.90
MW-20 (MID)	04/11/2011	77.19	----	31.39	----	45.80
MW-20 (MID)	10/10/2011	77.19	----	31.55	----	45.64
MW-20 (MID)	04/16/2012	77.19	----	32.20	----	44.99
MW-20 (MID)	10/15/2012	77.19	----	33.05	----	44.14
MW-20 (MID)	04/08/2013	77.19	----	33.35	----	43.84
MW-20 (MID)	10/07/2013	77.19	----	34.37	----	42.82

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
MW-20 (MID)	04/14/2014	77.19	----	34.95	----	42.24
MW-20 (MID)	10/27/2014	77.19	----	35.65	----	41.54
MW-20 (MID)	04/20/2015	77.19	----	35.94	----	41.25
MW-20 (MID)	10/19/2015	77.19	----	37.73	----	39.46
MW-20 (MID)	04/11/2016	77.19	----	37.55	----	39.64
MW-20 (MID)	10/3/2016	77.19	----	38.22	----	38.97
MW-20 (MID)	4/17/2017	77.19	----	37.30	----	39.89
MW-20 (MID)	10/2/2017	77.19	----	38.44	----	38.75
MW-21 (MID)	05/04/1999	77.55	----	28.99	----	48.56
MW-21 (MID)	08/09/1999	77.55	----	29.67	----	47.88
MW-21 (MID)	11/15/1999	77.55	----	30.50	----	47.05
MW-21 (MID)	05/15/2000	77.55	----	27.30	----	50.25
MW-21 (MID)	11/13/2000	77.55	----	30.41	----	47.14
MW-21 (MID)	05/07/2001	77.55	----	28.68	----	48.87
MW-21 (MID)	11/05/2001	77.55	----	28.67	----	48.88
MW-21 (MID)	04/08/2002	77.55	----	49.51	----	28.04
MW-21 (MID)	10/21/2002	77.55	----	29.92	----	47.63
MW-21 (MID)	04/07/2003	77.55	----	29.90	----	47.65
MW-21 (MID)	10/06/2003	77.55	----	29.51	----	48.04
MW-21 (MID)	01/11/2004	77.55	----	30.91	----	46.64
MW-21 (MID)	04/19/2004	77.55	----	30.66	----	46.89
MW-21 (MID)	05/02/2005	77.55	----	25.61	----	51.94
MW-21 (MID)	10/31/2005	77.55	----	26.31	----	51.24
MW-21 (MID)	05/01/2006	77.55	----	26.66	----	50.89
MW-21 (MID)	12/04/2006	77.55	----	27.55	----	50.00
MW-21 (MID)	04/30/2007	77.55	----	27.68	----	49.87
MW-21 (MID)	11/12/2007	77.55	----	28.08	----	49.47
MW-21 (MID)	04/14/2008	77.55	----	28.32	----	49.23
MW-21 (MID)	10/13/2008	77.55	----	28.96	----	48.59
MW-21 (MID)	04/20/2009	77.55	----	29.19	----	48.36
MW-21 (MID)	10/19/2009	77.55	----	30.30	----	47.25
MW-21 (MID)	05/24/2010	77.55	----	30.00	----	47.55
MW-21 (MID)	05/28/2010	77.55	----	29.97	----	47.58
MW-21 (MID)	04/11/2011	77.55	----	29.00	----	48.55
MW-21 (MID)	10/10/2011	77.55	----	29.44	----	48.11
MW-21 (MID)	04/16/2012	77.55	----	30.54	----	47.01
MW-21 (MID)	10/15/2012	77.55	----	31.23	----	46.32
MW-21 (MID)	04/08/2013	77.55	----	32.29	----	45.26
MW-21 (MID)	10/07/2013	77.55	----	32.62	----	44.93
MW-21 (MID)	04/14/2014	77.55	----	33.38	----	44.17
MW-21 (MID)	10/27/2014	77.55	----	33.62	----	43.93
MW-21 (MID)	04/20/2015	77.55	----	34.08	----	43.47
MW-21 (MID)	10/19/2015	77.55	----	34.77	----	42.78
MW-21 (MID)	04/11/2016	77.55	----	36.42	----	41.13

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
MW-21 (MID)	10/3/2016	77.55	----	37.83	----	39.72
MW-21 (MID)	4/17/2017	77.55	----	34.74	----	42.81
MW-21 (MID)	10/2/2017	77.55	----	37.85	----	39.70
MW-22 (MID)	05/28/1996	79.57	----	33.53	----	46.04
MW-22 (MID)	11/20/1996	79.57	----	34.39	----	45.18
MW-22 (MID)	07/01/1997	79.57	----	35.42	----	44.15
MW-22 (MID)	12/31/1997	79.57	----	34.06	----	45.51
MW-22 (MID)	05/01/1998	79.57	----	32.12	----	47.45
MW-22 (MID)	02/02/1999	79.57	----	31.76	----	47.81
MW-22 (MID)	05/04/1999	79.57	----	32.60	----	46.97
MW-22 (MID)	05/25/1999	79.57	----	32.02	----	47.55
MW-22 (MID)	08/09/1999	79.57	----	33.24	----	46.33
MW-22 (MID)	02/29/2000	79.57	----	32.76	----	46.81
MW-22 (MID)	05/15/2000	79.57	----	32.72	----	46.85
MW-22 (MID)	08/28/2000	79.57	----	33.80	----	45.77
MW-22 (MID)	11/13/2000	79.57	----	32.61	----	46.96
MW-22 (MID)	11/13/2000	79.57	----	33.47	----	46.10
MW-22 (MID)	02/05/2001	79.57	----	32.62	----	46.95
MW-22 (MID)	05/07/2001	79.57	----	32.01	----	47.56
MW-22 (MID)	05/07/2001	79.57	----	32.05	----	47.52
MW-22 (MID)	09/18/2001	79.57	----	32.07	----	47.50
MW-22 (MID)	01/29/2002	79.57	----	32.32	----	47.25
MW-22 (MID)	04/08/2002	79.57	----	32.61	----	46.96
MW-22 (MID)	07/29/2002	79.57	----	32.76	----	46.81
MW-22 (MID)	10/21/2002	79.57	----	32.66	----	46.91
MW-22 (MID)	01/27/2003	79.57	----	32.44	----	47.13
MW-22 (MID)	04/07/2003	79.57	----	32.50	----	47.07
MW-22 (MID)	10/06/2003	79.57	----	32.98	----	46.59
MW-22 (MID)	04/19/2004	79.57	----	33.32	----	46.25
MW-22 (MID)	11/01/2004	79.57	----	33.44	----	46.13
MW-22 (MID)	02/28/2005	79.57	----	31.66	----	47.91
MW-22 (MID)	05/02/2005	79.57	----	29.93	----	49.64
MW-22 (MID)	03/06/2006	79.57	----	30.12	----	49.45
MW-22 (MID)	05/01/2006	79.57	----	30.54	----	49.03
MW-22 (MID)	08/26/2006	79.57	----	31.04	----	48.53
MW-22 (MID)	12/01/2006	79.57	----	31.18	----	48.39
MW-22 (MID)	03/21/2007	79.57	----	31.49	----	48.08
MW-22 (MID)	04/30/2007	79.57	----	31.33	----	48.24
MW-22 (MID)	08/28/2007	79.57	----	31.96	----	47.61
MW-22 (MID)	11/12/2007	79.57	----	32.19	----	47.38
MW-22 (MID)	02/05/2008	79.57	----	32.51	----	47.06
MW-22 (MID)	04/11/2008	79.57	----	31.83	----	47.74
MW-22 (MID)	10/13/2008	79.57	----	33.01	----	46.56
MW-22 (MID)	02/09/2009	79.57	----	32.96	----	46.61

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
MW-22 (MID)	04/20/2009	79.57	----	32.65	----	46.92
MW-22 (MID)	07/16/2009	79.57	----	33.51	----	46.06
MW-22 (MID)	07/20/2009	79.57	----	33.96	----	45.61
MW-22 (MID)	10/19/2009	79.57	----	33.87	----	45.70
MW-22 (MID)	01/11/2010	79.57	----	34.14	----	45.43
MW-22 (MID)	04/07/2010	79.57	----	34.02	----	45.55
MW-22 (MID)	04/12/2010	79.57	----	33.62	----	45.95
MW-22 (MID)	01/07/2011	79.57	----	34.50	----	45.07
MW-22 (MID)	04/06/2011	79.57	----	33.39	----	46.18
MW-22 (MID)	07/08/2011	79.57	----	33.34	----	46.23
MW-22 (MID)	10/06/2011	79.57	----	33.57	----	46.00
MW-22 (MID)	01/09/2012	79.57	----	33.72	----	45.85
MW-22 (MID)	04/12/2012	79.57	----	34.22	----	45.35
MW-22 (MID)	04/18/2012	79.57	----	33.98	----	45.59
MW-22 (MID)	01/11/2013	79.57	----	35.48	----	44.09
MW-22 (MID)	04/03/2013	79.57	----	35.32	----	44.25
MW-22 (MID)	04/08/2013	79.57	----	35.30	----	44.27
MW-22 (MID)	10/02/2013	79.57	----	36.18	----	43.39
MW-22 (MID)	04/09/2014	79.57	----	37.08	----	42.49
MW-22 (MID)	04/15/2014	79.57	----	36.84	----	42.73
MW-22 (MID)	10/27/2014	79.57	----	37.57	----	42.00
MW-22 (MID)	04/20/2015	79.57	----	37.94	----	41.63
MW-22 (MID)	10/19/2015	79.57	----	38.72	----	40.85
MW-22 (MID)	04/11/2016	79.57	----	39.20	----	40.37
MW-22 (MID)	10/3/2016	79.57	----	39.79	----	39.78
MW-22 (MID)	4/17/2017	79.57	----	39.40	----	40.17
MW-22 (MID)	10/2/2017	79.57	----	40.16	----	39.41
MW-23 (MID)	05/28/1996	79.59	----	32.44	----	47.15
MW-23 (MID)	11/20/1996	79.59	----	33.20	----	46.39
MW-23 (MID)	07/01/1997	79.59	----	32.94	----	46.65
MW-23 (MID)	12/31/1997	79.59	----	33.14	----	46.45
MW-23 (MID)	05/01/1998	79.59	----	30.25	----	49.34
MW-23 (MID)	05/25/1999	79.59	----	31.03	----	48.56
MW-23 (MID)	05/15/2000	79.59	----	31.97	----	47.62
MW-23 (MID)	11/13/2000	79.59	----	31.21	----	48.38
MW-23 (MID)	05/07/2001	79.59	----	28.30	----	51.29
MW-23 (MID)	04/08/2002	79.59	----	32.27	----	47.32
MW-23 (MID)	10/21/2002	79.59	----	31.44	----	48.15
MW-23 (MID)	04/07/2003	79.59	----	30.22	----	49.37
MW-23 (MID)	10/06/2003	79.59	----	31.50	----	48.09
MW-23 (MID)	04/19/2004	79.59	----	32.65	----	46.94
MW-23 (MID)	11/01/2004	79.59	----	32.33	----	47.26
MW-23 (MID)	05/02/2005	79.59	----	27.72	----	51.87
MW-23 (MID)	03/06/2006	79.59	----	28.81	----	50.78

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
MW-23 (MID)	05/01/2006	79.59	----	29.21	----	50.38
MW-23 (MID)	08/26/2006	79.59	----	29.56	----	50.03
MW-23 (MID)	12/01/2006	79.59	----	29.91	----	49.68
MW-23 (MID)	03/21/2007	79.59	----	30.14	----	49.45
MW-23 (MID)	04/27/2007	79.59	----	30.33	----	49.26
MW-23 (MID)	08/28/2007	79.59	----	31.05	----	48.54
MW-23 (MID)	11/12/2007	79.59	----	30.95	----	48.64
MW-23 (MID)	02/05/2008	79.59	----	31.91	----	47.68
MW-23 (MID)	04/11/2008	79.59	----	30.72	----	48.87
MW-23 (MID)	07/24/2008	79.59	----	31.02	----	48.57
MW-23 (MID)	10/13/2008	79.59	----	31.82	----	47.77
MW-23 (MID)	02/09/2009	79.59	----	32.78	----	46.81
MW-23 (MID)	04/20/2009	79.59	----	32.46	----	47.13
MW-23 (MID)	07/16/2009	79.59	----	31.79	----	47.80
MW-23 (MID)	10/19/2009	79.59	----	32.44	----	47.15
MW-23 (MID)	04/07/2010	79.59	----	32.29	----	47.30
MW-23 (MID)	04/12/2010	79.59	----	31.83	----	47.76
MW-23 (MID)	01/06/2011	79.59	----	32.53	----	47.06
MW-23 (MID)	04/06/2011	79.59	----	31.34	----	48.25
MW-23 (MID)	07/07/2011	79.59	----	31.62	----	47.97
MW-23 (MID)	10/06/2011	79.59	----	32.03	----	47.56
MW-23 (MID)	04/12/2012	79.59	----	33.10	----	46.49
MW-23 (MID)	04/19/2012	79.59	----	32.87	----	46.72
MW-23 (MID)	01/10/2013	79.59	----	34.27	----	45.32
MW-23 (MID)	04/02/2013	79.59	----	34.25	----	45.34
MW-23 (MID)	04/08/2013	79.59	----	34.19	----	45.40
MW-24	05/28/1996	78.51	----	32.08	----	46.43
MW-24	11/20/1996	78.51	----	32.33	----	46.18
MW-24	07/01/1997	78.51	----	33.97	----	44.54
MW-24	12/31/1997	78.51	----	32.72	----	45.79
MW-24	05/01/1998	78.51	----	30.42	----	48.09
MW-24	05/25/1999	78.51	----	30.59	----	47.92
MW-24	05/15/2000	78.51	----	31.33	----	47.18
MW-24	11/13/2000	78.51	----	31.60	----	46.91
MW-24	05/07/2001	78.51	----	30.44	----	48.07
MW-24	04/08/2002	78.51	----	31.12	----	47.39
MW-24	10/21/2002	78.51	----	31.09	----	47.42
MW-24	04/07/2003	78.51	----	30.80	----	47.71
MW-24	10/06/2003	78.51	----	30.77	----	47.74
MW-24	04/19/2004	78.51	----	31.49	----	47.02
MW-24	11/01/2004	78.51	----	31.45	----	47.06
MW-24	05/02/2005	78.51	----	27.71	----	50.80
MW-24	05/01/2006	78.51	----	28.50	----	50.01
MW-24	12/01/2006	78.51	----	29.06	----	49.45

APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
MW-24	04/30/2007	78.51	----	29.44	----	49.07
MW-24	11/12/2007	78.51	----	29.91	----	48.60
MW-24	04/11/2008	78.51	----	29.74	----	48.77
MW-24	07/24/2008	78.51	----	29.96	----	48.55
MW-24	10/13/2008	78.51	----	30.79	----	47.72
MW-24	02/09/2009	78.51	----	29.67	----	48.84
MW-24	04/20/2009	78.51	----	30.66	----	47.85
MW-24	10/19/2009	78.51	----	31.61	----	46.90
MW-24	04/07/2010	78.51	----	31.62	----	46.89
MW-24	04/12/2010	78.51	----	31.26	----	47.25
MW-24	01/06/2011	78.51	----	31.96	----	46.55
MW-24	04/06/2011	78.51	----	30.98	----	47.53
MW-24	07/07/2011	78.51	----	31.03	----	47.48
MW-24	10/06/2011	78.51	----	31.26	----	47.25
MW-24	04/12/2012	78.51	----	32.04	----	46.47
MW-24	04/18/2012	78.51	----	31.82	----	46.69
MW-24	01/10/2013	78.51	----	33.24	----	45.27
MW-24	04/02/2013	78.51	----	33.09	----	45.42
MW-24	04/08/2013	78.51	----	33.01	----	45.50
MW-24	10/01/2013	78.51	----	33.87	----	44.64
MW-24	04/07/2014	78.51	----	34.75	----	43.76
MW-24	04/15/2014	78.51	----	34.52	----	43.99
MW-24	10/27/2014	78.51	----	34.96	----	43.55
MW-24	04/20/2015	78.51	----	35.34	----	43.17
MW-24	10/19/2015	78.51	----	36.02	----	42.49
MW-24	04/11/2016	78.51	----	36.42	----	42.09
MW-24	4/17/2017	78.51	----	34.90	----	43.61
MW-24	10/2/2017	77.66	----	36.24	----	41.42
MW-24	10/25/2017	77.66	----	36.25	----	41.41
MW-25	05/28/1996	79.15	----	32.77	----	46.38
MW-25	11/20/1996	79.15	----	33.90	----	45.25
MW-25	07/01/1997	79.15	----	34.59	----	44.56
MW-25	12/31/1997	79.15	----	33.41	----	45.74
MW-25	05/01/1998	79.15	----	31.26	----	47.89
MW-25	05/04/1999	79.15	----	32.01	----	47.14
MW-25	05/25/1999	79.15	----	31.45	----	47.70
MW-25	08/09/1999	79.15	----	32.56	----	46.59
MW-25	05/15/2000	79.15	----	31.86	----	47.29
MW-25	11/13/2000	79.15	----	33.56	----	45.59
MW-25	11/13/2000	79.15	----	32.50	----	46.65
MW-25	05/07/2001	79.15	----	31.12	----	48.03
MW-25	05/07/2001	79.15	----	31.15	----	48.00
MW-25	04/08/2002	79.15	----	31.81	----	47.34
MW-25	10/21/2002	79.15	----	31.59	----	47.56

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
MW-25	04/07/2003	79.15	----	31.40	----	47.75
MW-25	10/06/2003	79.15	----	31.73	----	47.42
MW-25	04/19/2004	79.15	----	32.19	----	46.96
MW-25	11/01/2004	79.15	----	32.25	----	46.90
MW-25	05/02/2005	79.15	----	28.89	----	50.26
MW-25	05/01/2006	79.15	----	29.44	----	49.71
MW-25	12/01/2006	79.15	----	29.84	----	49.31
MW-25	04/30/2007	79.15	----	29.99	----	49.16
MW-25	11/12/2007	79.15	----	30.50	----	48.65
MW-25	04/11/2008	79.15	----	30.27	----	48.88
MW-25	07/24/2008	79.15	----	30.90	----	48.25
MW-25	10/13/2008	79.15	----	31.44	----	47.71
MW-25	02/09/2009	79.15	----	30.70	----	48.45
MW-25	04/20/2009	79.15	----	31.32	----	47.83
MW-25	10/19/2009	79.15	----	32.00	----	47.15
MW-25	04/07/2010	79.15	----	32.39	----	46.76
MW-25	04/12/2010	79.15	----	31.86	----	47.29
MW-25	01/07/2011	79.15	----	32.76	----	46.39
MW-25	04/06/2011	79.15	----	31.64	----	47.51
MW-25	07/08/2011	79.15	----	31.55	----	47.60
MW-25	10/06/2011	79.15	----	31.78	----	47.37
MW-25	04/12/2012	79.15	----	32.58	----	46.57
MW-25	04/17/2012	79.15	----	32.35	----	46.80
MW-25	01/11/2013	79.15	----	33.86	----	45.29
MW-25	04/03/2013	79.15	----	33.65	----	45.50
MW-25	04/08/2013	79.15	----	33.44	----	45.71
MW-26	05/28/1996	77.40	----	30.70	----	46.70
MW-26	11/20/1996	77.40	----	31.25	----	46.15
MW-26	07/01/1997	77.40	----	32.24	----	45.16
MW-26	12/31/1997	77.40	----	31.44	----	45.96
MW-26	05/01/1998	77.40	----	28.96	----	48.44
MW-26	05/25/1999	77.40	----	29.54	----	47.86
MW-26	05/15/2000	77.40	----	29.97	----	47.43
MW-26	11/13/2000	77.40	----	30.73	----	46.67
MW-26	05/07/2001	77.40	----	29.05	----	48.35
MW-26	04/08/2002	77.40	----	29.94	----	47.46
MW-26	10/21/2002	77.40	----	29.73	----	47.67
MW-26	04/07/2003	77.40	----	29.50	----	47.90
MW-26	10/06/2003	77.40	----	29.78	----	47.62
MW-26	04/19/2004	77.40	----	30.54	----	46.86
MW-26	11/01/2004	77.40	----	30.43	----	46.97
MW-26	05/02/2005	77.40	----	26.06	----	51.34
MW-26	05/01/2006	77.40	----	27.46	----	49.94
MW-26	12/01/2006	77.40	----	28.00	----	49.40

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
MW-26	04/30/2007	77.40	----	28.18	----	49.22
MW-26	11/12/2007	77.40	----	28.75	----	48.65
MW-26	04/11/2008	77.40	----	28.46	----	48.94
MW-26	07/24/2008	77.40	----	29.00	----	48.40
MW-26	10/13/2008	77.40	----	29.42	----	47.98
MW-26	02/09/2009	77.40	----	29.11	----	48.29
MW-26	04/20/2009	77.40	----	29.42	----	47.98
MW-26	10/19/2009	77.40	----	30.00	----	47.40
MW-26	04/07/2010	77.40	----	30.24	----	47.16
MW-26	04/12/2010	77.40	----	29.82	----	47.58
MW-26	01/07/2011	77.40	----	30.77	----	46.63
MW-26	04/06/2011	77.40	----	29.52	----	47.88
MW-26	07/08/2011	77.40	----	29.48	----	47.92
MW-26	10/06/2011	77.40	----	29.88	----	47.52
MW-26	04/12/2012	77.40	----	30.77	----	46.63
MW-26	04/17/2012	77.40	----	30.58	----	46.82
MW-26	01/11/2013	77.40	----	32.17	----	45.23
MW-26	04/03/2013	77.40	----	31.94	----	45.46
MW-26	04/08/2013	77.40	----	31.86	----	45.54
MW-26	10/02/2013	77.40	----	32.72	----	44.68
MW-26	04/09/2014	77.40	----	33.63	----	43.77
MW-26	04/15/2014	77.40	----	33.38	----	44.02
MW-26	10/27/2014	77.40	----	33.81	----	43.59
MW-26	04/20/2015	77.40	----	34.22	----	43.18
MW-26	10/19/2015	77.40	----	34.94	----	42.46
MW-26	04/11/2016	77.40	----	35.48	----	41.92
MW-26	10/3/2016	77.40	----	35.90	----	41.50
MW-26	4/17/2017	77.40	----	35.37	----	42.03
MW-26	10/2/2017	77.40	----	36.13	----	41.27
MW-27	05/28/1996	78.46	----	31.43	----	47.03
MW-27	11/20/1996	78.46	----	32.13	----	46.33
MW-27	07/01/1997	78.46	----	32.99	----	45.47
MW-27	12/31/1997	78.46	----	32.21	----	46.25
MW-27	05/01/1998	78.46	----	29.05	----	49.41
MW-27	05/25/1999	78.46	----	30.27	----	48.19
MW-27	05/15/2000	78.46	----	30.81	----	47.65
MW-27	11/13/2000	78.46	----	31.79	----	46.67
MW-27	05/07/2001	78.46	----	29.61	----	48.85
MW-27	04/08/2002	78.46	----	30.69	----	47.77
MW-27	10/21/2002	78.46	----	30.62	----	47.84
MW-27	04/07/2003	78.46	----	30.40	----	48.06
MW-27	10/06/2003	78.46	----	30.79	----	47.67
MW-27	04/19/2004	78.46	----	31.87	----	46.59
MW-27	11/01/2004	78.46	----	31.66	----	46.80

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

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15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
MW-27	05/02/2005	78.46	----	26.48	----	51.98
MW-27	05/01/2006	78.46	----	28.17	----	50.29
MW-27	12/01/2006	78.46	----	28.99	----	49.47
MW-27	04/30/2007	78.46	----	29.17	----	49.29
MW-27	11/12/2007	78.46	----	29.75	----	48.71
MW-27	04/11/2008	78.46	----	29.25	----	49.21
MW-27	07/24/2008	78.46	----	29.96	----	48.50
MW-27	10/13/2008	78.46	----	30.34	----	48.12
MW-27	02/09/2009	78.46	----	30.44	----	48.02
MW-27	04/20/2009	78.46	----	30.27	----	48.19
MW-27	10/19/2009	78.46	----	31.23	----	47.23
MW-27	04/07/2010	78.46	----	30.95	----	47.51
MW-27	04/12/2010	78.46	----	30.79	----	47.67
MW-27	01/07/2011	78.46	----	31.53	----	46.93
MW-27	04/06/2011	78.46	----	29.82	----	48.64
MW-27	07/08/2011	78.46	----	30.03	----	48.43
MW-27	10/06/2011	78.46	----	30.06	----	48.40
MW-27	04/12/2012	78.46	----	31.72	----	46.74
MW-27	04/17/2012	78.46	----	31.49	----	46.97
MW-27	01/11/2013	78.46	----	33.24	----	45.22
MW-27	04/03/2013	78.46	----	33.02	----	45.44
MW-27	04/08/2013	78.46	----	32.98	----	45.48
MW-27	10/02/2013	78.46	----	33.78	----	44.68
MW-27	10/27/2014	78.46	----	34.63	----	43.83
MW-27	04/20/2015	78.46	----	35.03	----	43.43
MW-27	10/19/2015	78.46	----	35.79	----	42.67
MW-27	04/11/2016	78.46	----	36.66	----	41.80
MW-27	10/3/2016	78.46	----	37.16	----	41.30
MW-27	4/17/2017	78.46	----	35.85	----	42.61
MW-27	10/2/2017	78.46	----	37.61	----	40.85
MW-28	05/28/1996	78.53	----	31.13	----	47.40
MW-28	11/20/1996	78.53	----	31.79	----	46.74
MW-28	07/01/1997	78.53	----	31.98	----	46.55
MW-28	12/31/1997	78.53	----	31.51	----	47.02
MW-28	05/01/1998	78.53	----	29.09	----	49.44
MW-28	05/25/1999	78.53	----	29.83	----	48.70
MW-28	05/15/2000	78.53	----	30.45	----	48.08
MW-28	11/13/2000	78.53	----	30.65	----	47.88
MW-28	05/07/2001	78.53	----	29.18	----	49.35
MW-28	04/08/2002	78.53	----	30.25	----	48.28
MW-28	10/21/2002	78.53	----	30.77	----	47.76
MW-28	04/07/2003	78.53	----	29.85	----	48.68
MW-28	10/06/2003	78.53	----	30.10	----	48.43
MW-28	04/19/2004	78.53	----	31.45	----	47.08

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
MW-28	11/01/2004	78.53	----	31.25	----	47.28
MW-28	05/02/2005	78.53	----	25.17	----	53.36
MW-28	05/01/2006	78.53	----	27.55	----	50.98
MW-28	12/01/2006	78.53	----	28.66	----	49.87
MW-28	04/30/2007	78.53	----	29.05	----	49.48
MW-28	11/12/2007	78.53	----	29.64	----	48.89
MW-28	04/11/2008	78.53	----	29.28	----	49.25
MW-28	10/14/2008	78.53	----	30.38	----	48.15
MW-28	04/08/2010	78.53	----	30.58	----	47.95
MW-28	10/01/2010	78.53	----	31.07	----	47.46
MW-28	01/07/2011	78.53	----	31.13	----	47.40
MW-28	04/12/2012	78.53	----	31.76	----	46.77
MW-28	10/02/2013	78.53	----	33.89	----	44.64
MW-28	04/07/2014	78.53	----	34.91	----	43.62
MW-28	10/27/2014	78.53	----	34.79	----	43.74
MW-28	04/20/2015	78.53	----	35.10	----	43.43
MW-28	4/17/2017	78.53	----	32.90	----	45.63
MW-28	10/3/2017	75.90	----	35.18	----	40.72
MW-29	05/28/1996	79.13	31.36	31.49	0.13	NC
MW-29	11/20/1996	79.13	32.41	32.66	0.25	NC
MW-29	07/01/1997	79.13	31.60	31.65	0.05	NC
MW-29	12/31/1997	79.13	----	31.99	----	47.14
MW-29	05/01/1998	79.13	----	29.06	----	50.07
MW-29	05/25/1999	79.13	----	30.03	----	49.10
MW-29	05/15/2000	79.13	----	30.81	----	48.32
MW-29	11/13/2000	79.13	----	31.30	----	47.83
MW-29	05/07/2001	79.13	----	29.30	----	49.83
MW-29	02/01/2002	79.13	----	29.71	----	49.42
MW-29	04/08/2002	79.13	----	31.12	----	48.01
MW-29	10/21/2002	79.13	----	31.48	----	47.65
MW-29	04/07/2003	79.13	----	30.42	----	48.71
MW-29	10/06/2003	79.13	----	30.40	----	48.73
MW-29	04/19/2004	79.13	----	31.39	----	47.74
MW-29	11/01/2004	79.13	----	31.72	----	47.41
MW-29	03/06/2006	79.13	----	27.38	----	51.75
MW-29	05/01/2006	79.13	----	27.52	----	51.61
MW-29	08/26/2006	79.13	----	28.23	----	50.90
MW-29	12/01/2006	79.13	----	28.92	----	50.21
MW-29	03/21/2007	79.13	----	28.72	----	50.41
MW-29	04/30/2007	79.13	----	29.66	----	49.47
MW-29	08/28/2007	79.13	----	29.01	----	50.12
MW-29	11/12/2007	79.13	----	30.25	----	48.88
MW-29	02/05/2008	79.13	----	29.91	----	49.22
MW-29	07/24/2008	79.13	----	30.03	----	49.10

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
MW-29	10/14/2008	79.13	----	30.94	----	48.19
MW-29	02/10/2009	79.13	----	30.26	----	48.87
MW-29	07/16/2009	79.13	----	31.15	----	47.98
MW-29	04/08/2010	79.13	----	31.04	----	48.09
MW-29	10/01/2010	79.13	----	31.64	----	47.49
MW-29	01/08/2011	79.13	----	31.90	----	47.23
MW-29	04/06/2011	79.13	----	30.19	----	48.94
MW-29	07/08/2011	79.13	----	30.65	----	48.48
MW-29	10/06/2011	79.13	----	31.30	----	47.83
MW-29	04/12/2012	79.13	----	32.52	----	46.61
MW-29	01/10/2013	79.13	----	33.79	----	45.34
MW-29	04/03/2013	79.13	----	33.78	----	45.35
MW-29	04/08/2013	79.13	----	33.58	----	45.55
MW-29	10/02/2013	79.13	----	34.50	----	44.63
MW-29	04/09/2014	79.13	----	35.19	----	43.94
MW-29	04/17/2014	79.13	----	34.78	----	44.35
MW-29	10/27/2014	79.13	----	35.26	----	43.87
MW-29	04/20/2015	79.13	----	35.65	----	43.48
MW-29	10/19/2015	79.13	----	36.46	----	42.67
MW-29	4.11.16	79.13	----	37.27	----	41.86
MW-29	10/3/2016	79.13	----	37.74	----	41.39
MW-29	4/18/2017	79.13	----	36.36	----	42.77
MW-29	10/3/2017	79.13	----	37.64	----	41.49
MW-O-1	04/08/2002	75.48	----	24.31	----	51.17
MW-O-1	10/06/2003	75.48	----	25.54	----	49.94
MW-O-1	01/11/2004	75.48	26.52	26.60	0.08	NC
MW-O-1	05/02/2005	75.48	22.85	22.89	0.04	NC
MW-O-1	10/31/2005	75.48	27.43	27.51	0.08	NC
MW-O-1	05/01/2006	75.48	22.62	24.09	1.47	NC
MW-O-1	12/04/2006	75.48	23.62	24.86	1.24	NC
MW-O-1	04/30/2007	75.48	23.98	24.10	0.12	NC
MW-O-1	08/14/2007	75.48	23.78	25.31	1.53	NC
MW-O-1	08/28/2007	75.48	23.06	23.07	0.01	NC
MW-O-1	11/12/2007	75.48	24.25	24.27	0.02	NC
MW-O-1	10/17/2008	75.48	----	25.30	----	50.18
MW-O-1	04/21/2009	75.48	----	25.41	----	50.07
MW-O-1	10/19/2009	75.48	----	26.30	----	49.18
MW-O-1	10/04/2010	75.48	----	26.90	----	48.58
MW-O-1	04/11/2011	75.48	----	25.59	----	49.89
MW-O-1	10/10/2011	75.48	----	26.52	----	48.96
MW-O-1	04/16/2012	75.48	----	27.25	----	48.23
MW-O-1	10/15/2012	75.48	----	28.94	----	46.54
MW-O-1	04/08/2013	75.48	----	28.81	----	46.67
MW-O-1	10/07/2013	75.48	----	29.21	----	46.27

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
MW-O-1	04/14/2014	75.48	----	29.82	----	45.66
MW-O-1	04/20/2015	75.48	----	30.39	----	45.09
MW-O-1	10/27/2015	75.48	----	27.67	----	47.81
MW-O-1	04/11/2016	75.48	----	DRY	----	NC
MW-O-1	10/3/2016	75.48	----	DRY (to 32.71)	----	NC
MW-O-1	4/17/2017	75.48	----	DRY	----	NC
MW-O-1	10/2/2017	75.48	----	DRY (to 8.77)	----	NC
MW-O-2	05/28/1996	74.38	25.39	27.40	2.01	NC
MW-O-2	11/20/1996	74.38	25.55	29.58	4.03	NC
MW-O-2	07/01/1997	74.31	26.15	26.49	0.34	NC
MW-O-2	12/31/1997	74.31	26.78	29.00	2.22	NC
MW-O-2	05/15/2000	74.31	25.37	29.63	4.26	NC
MW-O-2	11/13/2000	74.31	25.61	26.32	0.71	NC
MW-O-2	11/05/2001	74.31	----	24.62	----	49.69
MW-O-2	04/08/2002	74.31	----	25.71	----	48.60
MW-O-2	10/06/2003	74.31	23.00	24.19	1.19	NC
MW-O-2	05/02/2005	74.31	----	27.02	----	47.29
MW-O-2	10/31/2005	74.31	27.58	27.82	0.24	NC
MW-O-2	05/22/2006	74.31	21.31	21.32	0.01	NC
MW-O-2	12/04/2006	74.31	----	23.10	----	51.21
MW-O-2	04/30/2007	74.31	----	22.53	----	51.78
MW-O-2	11/12/2007	71.90	----	23.10	----	48.80
MW-O-2	10/17/2008	71.90	----	24.85	----	47.05
MW-O-2	10/04/2010	71.90	----	26.05	----	45.85
MW-O-2	04/13/2011	71.90	----	23.31	----	48.59
MW-O-2	10/10/2011	71.90	----	27.53	----	44.37
MW-O-2	01/09/2012	71.90	----	28.13	----	43.77
MW-O-2	07/09/2012	71.90	----	26.53	----	45.37
MW-O-2	10/15/2012	71.90	----	26.89	----	45.01
MW-O-2	01/14/2013	71.90	----	26.93	----	44.97
MW-O-2	06/06/2013	71.90	----	28.99	----	42.91
MW-O-2	10/07/2013	71.90	----	29.06	----	42.84
MW-O-2	04/14/2014	71.90	----	29.36	----	42.54
MW-O-2	10/27/2014	71.90	29.65	29.81	0.16	NC
MW-O-2	04/20/2015	71.90	29.34	30.94	1.60	NC
MW-O-2	05/21/2015	71.90	27.31	32.50	5.19	NC
MW-O-2	10/19/2015	71.90	30.53	32.39	1.86	NC
MW-O-2	04/11/2016	71.90	32.54	33.03	0.49	NC
MW-O-2	10/3/2016	71.90	34.22	34.30	0.08	NC
MW-O-2	4/17/2017	71.90	30.85	30.91	0.06	NC
MW-O-2	10/2/2017	71.90	----	34.67	----	37.23
MW-O-4	05/04/1999	75.00	24.14	24.19	0.05	NC
MW-O-4	04/08/2002	75.00	----	22.71	----	52.29
MW-SF-1	08/07/2001	76.31	29.07	29.18	0.11	NC

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
MW-SF-1	04/08/2002	78.93	----	29.81	----	49.12
MW-SF-1	11/04/2002	78.93	31.02	31.03	0.01	NC
MW-SF-1	07/30/2003	78.93	----	29.97	----	48.96
MW-SF-1	10/06/2003	78.93	----	30.01	----	48.92
MW-SF-1	01/11/2004	78.93	----	31.12	----	47.81
MW-SF-1	04/19/2004	78.93	----	30.71	----	48.22
MW-SF-1	05/02/2005	78.93	----	26.21	----	52.72
MW-SF-1	10/31/2005	78.93	----	27.09	----	51.84
MW-SF-1	05/01/2006	78.93	----	27.51	----	51.42
MW-SF-1	12/04/2006	78.93	----	28.28	----	50.65
MW-SF-1	03/12/2007	78.93	----	28.71	----	50.22
MW-SF-1	04/30/2007	78.93	----	28.44	----	50.49
MW-SF-1	08/28/2007	78.93	----	27.94	----	50.99
MW-SF-1	11/12/2007	78.93	----	28.76	----	50.17
MW-SF-1	02/19/2008	78.93	----	29.50	----	49.43
MW-SF-1	04/14/2008	78.93	----	29.16	----	49.77
MW-SF-1	08/11/2008	78.93	----	29.75	----	49.18
MW-SF-1	10/13/2008	78.93	----	29.86	----	49.07
MW-SF-1	04/20/2009	78.93	----	29.97	----	48.96
MW-SF-1	07/20/2009	78.93	----	30.98	----	47.95
MW-SF-1	10/19/2009	78.93	----	31.11	----	47.82
MW-SF-1	03/15/2010	78.93	----	31.74	----	47.19
MW-SF-1	05/24/2010	78.93	----	30.79	----	48.14
MW-SF-1	05/28/2010	78.93	----	30.57	----	48.36
MW-SF-1	10/04/2010	78.93	----	30.88	----	48.05
MW-SF-1	01/10/2011	78.93	----	32.51	----	46.42
MW-SF-1	04/11/2011	78.93	----	29.87	----	49.06
MW-SF-1	07/11/2011	78.93	----	29.84	----	49.09
MW-SF-1	10/10/2011	78.93	----	29.60	----	49.33
MW-SF-1	01/09/2012	78.93	----	31.25	----	47.68
MW-SF-1	04/16/2012	78.93	----	32.59	----	46.34
MW-SF-1	07/09/2012	78.93	----	31.24	----	47.69
MW-SF-1	10/15/2012	78.93	----	32.23	----	46.70
MW-SF-1	01/14/2013	78.93	----	33.88	----	45.05
MW-SF-1	04/08/2013	78.93	----	33.38	----	45.55
MW-SF-1	10/07/2013	78.93	31.72	37.14	5.42	NC
MW-SF-1	04/14/2014	78.93	32.69	37.40	4.71	NC
MW-SF-1	10/27/2014	78.93	34.43	34.80	0.37	NC
MW-SF-1	04/20/2015	78.93	34.48	34.89	0.41	NC
MW-SF-1	10/19/2015	78.93	35.53	36.35	0.82	NC
MW-SF-1	04/11/2016	78.93	----	37.96	----	40.97
MW-SF-1	10/3/2016	78.93	----	39.20	----	39.73
MW-SF-1	4/17/2017	78.93	----	35.75	----	43.18
MW-SF-1	10/2/2017	78.93	----	39.98	----	38.95

**APPENDIX D
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Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
MW-SF-2	11/20/1996	78.45	30.31	36.68	6.37	NC
MW-SF-2	07/01/1997	78.45	28.43	45.25	16.82	NC
MW-SF-2	12/31/1997	78.45	30.86	33.92	3.06	NC
MW-SF-2	05/01/1998	78.45	20.73	27.55	6.82	NC
MW-SF-2	05/15/2000	78.45	27.56	30.01	2.45	NC
MW-SF-2	11/13/2000	78.45	29.27	30.32	1.05	NC
MW-SF-2	05/07/2001	78.45	28.00	29.75	1.75	NC
MW-SF-2	08/07/2001	78.45	28.79	30.25	1.46	NC
MW-SF-2	11/05/2001	78.45	29.50	30.49	0.99	NC
MW-SF-2	10/21/2002	78.45	29.74	30.74	1.00	NC
MW-SF-2	10/06/2003	78.93	29.87	29.88	0.01	NC
MW-SF-2	04/19/2004	78.45	30.90	30.91	0.01	NC
MW-SF-2	05/02/2005	78.45	26.25	26.52	0.27	NC
MW-SF-2	10/31/2005	78.45	26.30	29.71	3.41	NC
MW-SF-2	05/01/2006	78.45	27.22	27.96	0.74	NC
MW-SF-2	12/04/2006	78.45	27.98	28.82	0.84	NC
MW-SF-2	04/30/2007	78.45	28.34	28.35	0.01	NC
MW-SF-2	11/12/2007	78.45	28.71	29.18	0.47	NC
MW-SF-2	08/12/2008	78.45	-----	31.11	-----	47.34
MW-SF-2	10/17/2008	78.45	31.00	31.55	0.55	NC
MW-SF-2	04/21/2009	78.53	-----	29.98	-----	48.55
MW-SF-2	10/04/2010	78.53	30.75	30.96	0.21	NC
MW-SF-2	04/11/2011	78.53	-----	29.83	-----	48.70
MW-SF-2	10/10/2011	78.53	-----	29.82	-----	48.71
MW-SF-2	01/09/2012	78.53	-----	30.52	-----	48.01
MW-SF-2	04/16/2012	78.53	-----	31.28	-----	47.25
MW-SF-2	07/09/2012	78.53	-----	33.18	-----	45.35
MW-SF-2	10/15/2012	78.53	-----	32.11	-----	46.42
MW-SF-2	01/14/2013	78.53	-----	33.59	-----	44.94
MW-SF-2	04/08/2013	78.53	-----	33.32	-----	45.21
MW-SF-2	10/07/2013	78.53	33.08	34.58	1.50	NC
MW-SF-2	04/14/2014	78.53	33.27	37.50	4.23	NC
MW-SF-2	10/27/2014	78.53	33.54	37.04	3.50	NC
MW-SF-2	04/20/2015	78.53	34.73	36.15	1.42	NC
MW-SF-2	10/21/2015	78.53	36.13	36.32	0.19	NC
MW-SF-2	04/11/2016	78.53	-----	37.47	-----	41.06
MW-SF-2	10/3/2016	78.53	-----	39.60	-----	38.93
MW-SF-2	4/17/2017	78.53	-----	35.78	-----	42.75
MW-SF-2	10/2/2017	78.53	-----	39.68	-----	38.85
MW-SF-3	08/07/2001	76.03	27.67	29.20	1.53	NC
MW-SF-3	04/08/2002	77.62	-----	27.17	-----	50.45
MW-SF-3	11/04/2002	77.62	29.72	29.93	0.21	NC
MW-SF-3	10/06/2003	78.93	28.92	29.09	0.17	NC
MW-SF-3	04/19/2004	77.62	29.92	30.81	0.89	NC

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Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
MW-SF-3	05/02/2005	77.62	25.09	26.70	1.61	NC
MW-SF-3	10/31/2005	77.62	----	27.91	----	49.71
MW-SF-3	05/01/2006	77.62	26.37	26.81	0.44	NC
MW-SF-3	12/04/2006	77.62	27.18	27.77	0.59	NC
MW-SF-3	04/30/2007	77.62	27.45	27.72	0.27	NC
MW-SF-3	11/12/2007	77.62	28.28	29.34	1.06	NC
MW-SF-3	08/12/2008	77.62	29.05	30.30	1.25	NC
MW-SF-3	10/17/2008	77.62	----	29.45	----	48.17
MW-SF-3	04/21/2009	78.12	29.50	29.51	0.01	NC
MW-SF-3	10/04/2010	78.12	30.30	30.88	0.58	NC
MW-SF-3	04/12/2011	78.12	----	29.44	----	48.68
MW-SF-3	10/10/2011	78.12	----	30.75	----	47.37
MW-SF-3	10/15/2012	78.12	----	32.47	----	45.65
MW-SF-3	05/24/2013	78.12	32.51	33.35	0.84	NC
MW-SF-3	11/14/2013	78.12	----	33.26	----	44.86
MW-SF-3	04/18/2014	78.12	33.62	33.72	0.10	NC
MW-SF-3	10/27/2014	78.12	33.85	34.49	0.64	NC
MW-SF-3	04/20/2015	78.12	----	34.52	----	43.60
MW-SF-3	10/21/2015	78.12	----	35.18	----	42.94
MW-SF-3	04/11/2016	78.12	----	37.17	----	40.95
MW-SF-3	10/3/2016	78.12	----	39.40	----	38.72
MW-SF-3	4/20/2017	78.12	----	35.15	----	42.97
MW-SF-3	10/2/2017	78.12	----	39.20	----	38.92
MW-SF-4	11/20/1996	79.38	32.17	35.90	3.73	NC
MW-SF-4	07/01/1997	79.38	31.85	36.92	5.07	NC
MW-SF-4	12/31/1997	79.38	32.10	33.89	1.79	NC
MW-SF-4	05/01/1998	79.38	28.27	29.99	1.72	NC
MW-SF-4	11/19/1999	79.38	28.80	36.87	8.07	NC
MW-SF-4	05/07/2001	79.38	----	24.62	----	54.76
MW-SF-4	05/10/2001	79.38	----	24.61	----	54.77
MW-SF-4	11/05/2001	79.38	----	30.05	----	49.33
MW-SF-4	04/08/2002	79.38	----	28.46	----	50.92
MW-SF-4	10/21/2002	79.38	----	31.50	----	47.88
MW-SF-4	07/30/2003	79.38	31.89	31.92	0.03	NC
MW-SF-4	10/06/2003	79.38	----	30.82	----	48.56
MW-SF-4	01/27/2004	79.38	31.30	31.94	0.64	NC
MW-SF-4	04/19/2004	79.38	31.65	32.70	1.05	NC
MW-SF-4	07/19/2004	79.38	31.42	31.81	0.39	NC
MW-SF-4	02/01/2005	79.38	30.34	30.71	0.37	NC
MW-SF-4	05/02/2005	79.38	26.85	27.00	0.15	NC
MW-SF-4	08/01/2005	79.38	27.43	27.81	0.38	NC
MW-SF-4	10/31/2005	79.38	----	27.11	----	52.27
MW-SF-4	02/27/2006	79.38	28.20	28.39	0.19	NC
MW-SF-4	05/01/2006	79.38	28.34	28.56	0.22	NC

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15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
MW-SF-4	09/18/2006	79.38	29.56	29.94	0.38	NC
MW-SF-4	12/04/2006	79.38	----	26.98	----	52.40
MW-SF-4	03/12/2007	79.38	29.41	30.01	0.60	NC
MW-SF-4	04/30/2007	79.38	29.11	29.96	0.85	NC
MW-SF-4	08/28/2007	79.38	28.30	29.95	1.65	NC
MW-SF-4	11/12/2007	79.38	29.69	29.70	0.01	NC
MW-SF-4	02/19/2008	79.38	----	30.22	----	49.16
MW-SF-4	04/14/2008	79.38	----	29.95	----	49.43
MW-SF-4	08/08/2008	79.38	----	30.51	----	48.87
MW-SF-4	08/11/2008	79.38	----	30.57	----	48.81
MW-SF-4	10/16/2008	79.38	----	30.77	----	48.61
MW-SF-4	04/20/2009	79.38	29.94	30.02	0.08	NC
MW-SF-4	07/20/2009	79.38	31.61	31.65	0.04	NC
MW-SF-4	10/19/2009	79.38	31.90	31.93	0.03	NC
MW-SF-4	03/15/2010	79.38	31.91	31.95	0.04	NC
MW-SF-4	05/24/2010	79.38	----	31.60	----	47.78
MW-SF-4	05/28/2010	79.38	----	26.40	----	52.98
MW-SF-4	10/04/2010	79.38	----	31.81	----	47.57
MW-SF-4	01/10/2011	79.38	----	32.99	----	46.39
MW-SF-4	04/11/2011	79.38	----	30.85	----	48.53
MW-SF-4	07/11/2011	79.38	----	30.35	----	49.03
MW-SF-4	01/09/2012	79.38	----	32.07	----	47.31
MW-SF-4	04/16/2012	79.38	----	33.35	----	46.03
MW-SF-4	07/09/2012	79.38	----	32.11	----	47.27
MW-SF-4	10/15/2012	79.38	----	34.04	----	45.34
MW-SF-4	01/14/2013	79.38	----	34.52	----	44.86
MW-SF-4	04/25/2014	79.38	34.23	40.03	5.80	NC
MW-SF-4	10/27/2014	79.38	35.25	35.54	0.29	NC
MW-SF-4	04/20/2015	79.38	35.29	37.78	2.49	NC
MW-SF-4	10/19/2015	79.38	36.25	38.12	1.87	NC
MW-SF-4	04/11/2016	79.38	----	37.76	----	41.62
MW-SF-4	10/3/2016	79.38	----	41.05	----	38.33
MW-SF-4	4/17/2017	79.38	----	36.67	----	42.71
MW-SF-4	10/2/2017	79.38	----	40.07	----	39.31
MW-SF-5	08/07/2001	75.63	----	30.33	----	45.30
MW-SF-5	04/08/2002	79.74	----	26.42	----	53.32
MW-SF-5	11/04/2002	79.74	31.77	31.79	0.02	NC
MW-SF-5	10/06/2003	79.74	31.14	31.15	0.01	NC
MW-SF-5	04/19/2004	79.74	----	32.22	----	47.52
MW-SF-5	05/02/2005	79.74	----	27.50	----	52.24
MW-SF-5	10/31/2005	79.74	----	27.99	----	51.75
MW-SF-5	05/01/2006	79.74	----	28.42	----	51.32
MW-SF-5	12/04/2006	79.74	----	28.23	----	51.51
MW-SF-5	04/30/2007	79.74	----	29.54	----	50.20

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
MW-SF-5	08/28/2007	79.74	----	28.84	----	50.90
MW-SF-5	11/12/2007	79.74	----	29.93	----	49.81
MW-SF-5	04/14/2008	79.74	----	30.20	----	49.54
MW-SF-5	08/11/2008	79.74	----	30.85	----	48.89
MW-SF-5	10/13/2008	79.74	----	30.93	----	48.81
MW-SF-5	04/20/2009	79.74	----	30.99	----	48.75
MW-SF-5	05/24/2010	79.74	----	31.55	----	48.19
MW-SF-5	05/28/2010	79.74	----	31.44	----	48.30
MW-SF-5	10/04/2010	79.74	----	31.39	----	48.35
MW-SF-5	01/10/2011	79.74	----	33.80	----	45.94
MW-SF-5	04/11/2011	79.74	----	31.03	----	48.71
MW-SF-5	10/10/2011	79.74	----	31.28	----	48.46
MW-SF-5	01/09/2012	79.74	----	32.12	----	47.62
MW-SF-5	04/16/2012	79.74	----	33.30	----	46.44
MW-SF-5	07/09/2012	79.74	----	34.45	----	45.29
MW-SF-5	10/15/2012	79.74	----	33.28	----	46.46
MW-SF-5	01/14/2013	79.74	----	33.37	----	46.37
MW-SF-5	04/08/2013	79.74	----	34.28	----	45.46
MW-SF-5	10/07/2013	79.74	----	34.58	----	45.16
MW-SF-5	04/14/2014	79.74	----	35.33	----	44.41
MW-SF-5	10/27/2014	79.74	----	35.48	----	44.26
MW-SF-5	04/20/2015	79.74	----	36.05	----	43.69
MW-SF-5	10/19/2015	79.74	----	36.82	----	42.92
MW-SF-5	04/11/2016	79.74	----	DRY	----	NC
MW-SF-5	10/3/2016	79.74	----	DRY (to 37.80)	----	NC
MW-SF-5	4/17/2017	79.74	----	36.88	----	42.86
MW-SF-5	10/2/2017	79.74	----	DRY (to 38.09)	----	NC
MW-SF-6	11/20/1996	80.59	31.88	39.82	7.94	NC
MW-SF-6	07/01/1997	80.59	33.20	39.18	5.98	NC
MW-SF-6	12/31/1997	80.59	34.38	39.94	5.56	NC
MW-SF-6	05/01/1998	80.59	24.82	30.01	5.19	NC
MW-SF-6	05/15/2000	80.59	29.67	31.19	1.52	NC
MW-SF-6	05/01/2006	79.96	----	25.43	----	54.53
MW-SF-6	04/30/2007	79.96	27.20	27.44	0.24	NC
MW-SF-6	11/12/2007	79.96	----	27.14	----	52.82
MW-SF-6	08/12/2008	79.96	----	29.82	----	50.14
MW-SF-6	10/17/2008	79.96	----	29.75	----	50.21
MW-SF-6	04/21/2009	76.80	----	28.45	----	48.35
MW-SF-6	10/04/2010	76.80	----	29.09	----	47.71
MW-SF-6	01/10/2011	76.80	----	30.87	----	45.93
MW-SF-6	04/11/2011	76.80	----	28.16	----	48.64
MW-SF-6	10/10/2011	76.80	----	28.21	----	48.59
MW-SF-6	01/09/2012	76.80	----	29.03	----	47.77
MW-SF-6	04/16/2012	76.80	----	29.66	----	47.14

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
MW-SF-6	07/09/2012	76.80	----	31.46	----	45.34
MW-SF-6	10/15/2012	76.80	----	31.44	----	45.36
MW-SF-6	01/14/2013	76.80	----	31.53	----	45.27
MW-SF-6	04/08/2013	76.80	28.81	30.21	1.40	NC
MW-SF-6	11/14/2013	76.80	----	31.90	----	44.90
MW-SF-6	04/18/2014	76.80	32.15	33.30	1.15	NC
MW-SF-6	10/27/2014	76.80	32.58	32.92	0.34	NC
MW-SF-6	04/20/2015	76.80	33.11	33.23	0.12	NC
MW-SF-6	10/21/2015	76.80	----	34.28	----	42.52
MW-SF-6	04/11/2016	76.80	----	35.83	----	40.97
MW-SF-6	10/3/2016	76.80	----	38.45	----	38.35
MW-SF-6	4/17/2017	76.80	----	34.03	----	42.77
MW-SF-6	10/2/2017	76.80	----	37.89	----	38.91
MW-SF-9	11/19/1999	74.10	----	25.57	----	48.53
MW-SF-9	11/05/2001	74.10	----	32.11	----	41.99
MW-SF-9	04/08/2002	74.10	----	31.62	----	42.48
MW-SF-9	07/30/2003	74.10	----	25.12	----	48.98
MW-SF-9	10/06/2003	74.10	----	25.23	----	48.87
MW-SF-9	01/11/2004	74.10	26.00	26.02	0.02	NC
MW-SF-9	04/19/2004	74.10	26.20	26.23	0.03	NC
MW-SF-9	05/02/2005	74.10	----	20.41	----	53.69
MW-SF-9	10/31/2005	74.10	----	27.09	----	47.01
MW-SF-9	05/01/2006	74.10	----	22.57	----	51.53
MW-SF-9	12/04/2006	74.10	----	23.30	----	50.80
MW-SF-9	04/30/2007	74.10	----	22.66	----	51.44
MW-SF-9	08/28/2007	74.10	----	20.55	----	53.55
MW-SF-9	11/12/2007	74.10	----	22.96	----	51.14
MW-SF-9	04/14/2008	74.10	----	24.23	----	49.87
MW-SF-9	10/13/2008	74.10	----	24.83	----	49.27
MW-SF-9	04/20/2009	74.10	----	25.27	----	48.83
MW-SF-9	10/19/2009	74.10	----	26.45	----	47.65
MW-SF-9	05/24/2010	74.10	----	25.80	----	48.30
MW-SF-9	05/28/2010	74.10	----	25.66	----	48.44
MW-SF-9	10/04/2010	74.10	----	26.10	----	48.00
MW-SF-9	01/10/2011	74.10	----	27.41	----	46.69
MW-SF-9	04/11/2011	74.10	----	24.16	----	49.94
MW-SF-9	10/10/2011	74.10	----	25.02	----	49.08
MW-SF-9	01/09/2012	74.10	----	25.98	----	48.12
MW-SF-9	04/16/2012	74.10	----	25.92	----	48.18
MW-SF-9	07/09/2012	74.10	----	26.44	----	47.66
MW-SF-9	06/06/2013	74.10	----	28.53	----	45.57
MW-SF-9	10/07/2013	74.10	----	28.95	----	45.15
MW-SF-9	04/25/2014	74.10	27.95	34.75	6.80	NC
MW-SF-9	10/27/2014	74.10	29.89	30.29	0.40	NC

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)	
MW-SF-9	04/20/2015	74.10	27.67	36.69	9.02	NC	
MW-SF-9	10/19/2015	74.10	31.04	31.44	0.40	NC	
MW-SF-9	04/11/2016	74.10	-----	32.89	-----	41.21	
MW-SF-9	10/2/2017	74.10	Inaccessible - unable to locate				
MW-SF-10	10/17/2008	76.53	-----	27.49	-----	49.04	
MW-SF-10	10/19/2009	76.53	-----	28.61	-----	47.92	
MW-SF-10	10/04/2010	76.53	28.36	28.50	0.14	NC	
MW-SF-10	04/11/2011	76.53	27.37	27.41	0.04	NC	
MW-SF-10	10/10/2011	76.53	-----	27.60	-----	48.93	
MW-SF-10	04/16/2012	76.53	-----	28.81	-----	47.72	
MW-SF-10	10/15/2012	76.53	-----	29.27	-----	47.26	
MW-SF-10	10/19/2015	76.53	-----	DRY (to 30.27)	-----	NC	
MW-SF-10	04/11/2016	76.53	-----	DRY	-----	NC	
MW-SF-10	10/3/2016	76.53	-----	DRY (to 30.40)	-----	NC	
MW-SF-10	4/17/2017	76.53	-----	DRY	-----	NC	
MW-SF-10	10/2/2017	76.53	-----	DRY (to 29.64)	-----	NC	
MW-SF-11	08/28/2007	78.56	-----	28.22	-----	50.34	
MW-SF-11	11/12/2007	78.56	-----	29.03	-----	49.53	
MW-SF-11	08/15/2008	78.56	-----	30.13	-----	48.43	
MW-SF-11	10/17/2008	78.56	-----	30.50	-----	48.06	
MW-SF-11	04/21/2009	78.56	-----	30.03	-----	48.53	
MW-SF-11	10/04/2010	78.56	-----	30.94	-----	47.62	
MW-SF-11	04/12/2011	78.56	-----	30.82	-----	47.74	
MW-SF-11	10/10/2011	78.56	-----	30.10	-----	48.46	
MW-SF-11	10/15/2012	78.56	-----	33.28	-----	45.28	
MW-SF-11	04/08/2013	78.56	-----	33.11	-----	45.45	
MW-SF-11	10/07/2013	78.56	-----	33.91	-----	44.65	
MW-SF-11	04/14/2014	78.56	34.95	35.20	0.25	NC	
MW-SF-11	10/27/2014	78.56	33.99	36.20	2.21	NC	
MW-SF-11	04/20/2015	78.56	34.86	38.89	4.03	NC	
MW-SF-11	10/20/2015	78.56	35.38	37.42	2.04	NC	
MW-SF-11	04/11/2016	78.56	-----	37.62	-----	40.94	
MW-SF-11	10/3/2016	78.56	-----	40.05	-----	38.51	
MW-SF-11	4/17/2017	78.56	-----	35.91	-----	42.65	
MW-SF-11	10/2/2017	78.56	-----	40.09	-----	38.47	
MW-SF-12	08/28/2007	78.07	-----	27.58	-----	50.49	
MW-SF-12	11/12/2007	78.07	-----	28.33	-----	49.74	
MW-SF-12	08/12/2008	78.07	-----	30.02	-----	48.05	
MW-SF-12	10/17/2008	78.08	-----	30.42	-----	47.66	
MW-SF-12	04/21/2009	78.07	-----	29.52	-----	48.55	
MW-SF-12	10/04/2010	78.07	-----	30.70	-----	47.37	
MW-SF-12	04/11/2011	78.07	-----	29.47	-----	48.60	
MW-SF-12	10/10/2011	78.07	-----	26.60	-----	51.47	
MW-SF-12	04/16/2012	78.07	-----	31.40	-----	46.67	

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
MW-SF-12	10/15/2012	78.07	----	32.12	----	45.95
MW-SF-12	04/14/2014	78.07	32.67	38.04	5.37	NC
MW-SF-12	09/05/2014	78.07	32.93	38.52	5.59	NC
MW-SF-12	10/27/2014	78.07	33.08	37.40	4.32	NC
MW-SF-12	04/20/2015	78.07	34.05	36.42	2.37	NC
MW-SF-12	10/20/2015	78.07	34.84	36.78	1.94	NC
MW-SF-12	04/11/2016	78.07	----	37.13	----	40.94
MW-SF-12	10/3/2016	78.07	----	39.45	----	38.62
MW-SF-12	4/17/2017	78.07	----	35.12	----	42.95
MW-SF-12	10/2/2017	78.07	----	39.31	----	38.76
MW-SF-13	08/28/2007	73.40	----	22.85	----	50.55
MW-SF-13	11/12/2007	73.40	----	23.70	----	49.70
MW-SF-13	08/15/2008	73.40	24.11	27.38	3.27	NC
MW-SF-13	10/17/2008	73.40	24.33	27.28	2.95	NC
MW-SF-13	10/21/2008	73.40	24.26	27.14	2.88	NC
MW-SF-13	04/21/2009	73.40	24.78	24.86	0.08	NC
MW-SF-13	10/04/2010	73.40	25.92	26.95	1.03	NC
MW-SF-13	04/12/2011	73.40	24.78	24.79	0.01	NC
MW-SF-13	10/10/2011	73.40	----	26.00	----	47.40
MW-SF-13	04/16/2012	73.40	----	27.19	----	46.21
MW-SF-13	10/15/2012	73.40	----	27.01	----	46.39
MW-SF-13	04/08/2013	73.40	----	27.90	----	45.50
MW-SF-13	11/14/2013	73.40	28.25	29.95	1.70	NC
MW-SF-13	04/14/2014	73.40	28.47	31.36	2.89	NC
MW-SF-13	10/27/2014	73.40	29.06	30.21	1.15	NC
MW-SF-13	04/20/2015	73.40	29.04	32.44	3.40	NC
MW-SF-13	10/19/2015	73.40	29.31	35.16	5.85	NC
MW-SF-13	04/11/2016	73.40	----	32.28	----	41.12
MW-SF-13	10/3/2016	73.40	----	34.20	----	39.20
MW-SF-13	4/17/2017	73.40	----	30.40	----	43.00
MW-SF-13	10/2/2017	73.40	----	34.52	----	38.88
MW-SF-14	08/28/2007	78.16	----	27.53	----	50.63
MW-SF-14	08/15/2008	78.16	29.24	29.77	0.53	NC
MW-SF-14	10/17/2008	78.16	29.50	29.52	0.02	NC
MW-SF-14	04/21/2009	78.16	----	29.61	----	48.55
MW-SF-14	10/04/2010	78.16	----	30.54	----	47.62
MW-SF-14	04/12/2011	78.16	----	29.55	----	48.61
MW-SF-14	10/10/2011	78.16	----	29.84	----	48.32
MW-SF-14	10/15/2012	78.16	----	30.02	----	48.14
MW-SF-14	05/24/2013	78.16	----	32.75	----	45.41
MW-SF-14	11/14/2013	78.16	33.19	33.57	0.38	NC
MW-SF-14	04/14/2014	78.16	33.56	34.81	1.25	NC
MW-SF-14	10/27/2014	78.16	33.97	34.40	0.43	NC
MW-SF-14	04/20/2015	78.16	----	34.48	----	43.68

**APPENDIX D
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Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
MW-SF-14	10/21/2015	78.16	----	35.25	----	42.91
MW-SF-14	04/11/2016	78.16	----	37.14	----	41.02
MW-SF-14	10/3/2016	78.16	-----	DRY (to 40.15)	-----	NC
MW-SF-14	4/17/2017	78.16	-----	DRY	-----	NC
MW-SF-14	10/2/2017	78.16	-----	DRY (to 36.03)	-----	NC
MW-SF-15	08/28/2007	78.27	27.61	27.65	0.04	NC
MW-SF-15	11/12/2007	78.27	-----	28.75	-----	49.52
MW-SF-15	08/15/2008	78.27	29.35	30.12	0.77	NC
MW-SF-15	10/17/2008	78.27	29.44	30.80	1.36	NC
MW-SF-15	04/21/2009	78.27	29.60	29.96	0.36	NC
MW-SF-15	10/04/2010	78.27	30.65	30.66	0.01	NC
MW-SF-15	04/12/2011	78.27	29.40	30.50	1.10	NC
MW-SF-15	10/10/2011	78.27	-----	29.60	-----	48.67
MW-SF-15	04/16/2012	78.27	32.39	32.48	0.09	NC
MW-SF-15	10/15/2012	78.16	-----	33.04	-----	45.12
MW-SF-15	05/24/2013	78.27	-----	33.90	-----	44.37
MW-SF-15	11/14/2013	78.27	33.38	33.41	0.03	NC
MW-SF-15	04/18/2014	78.27	-----	33.85	-----	44.42
MW-SF-15	10/27/2014	78.27	-----	35.82	-----	42.45
MW-SF-15	04/20/2015	78.27	34.12	36.63	2.51	NC
MW-SF-15	10/19/2015	78.27	34.87	37.90	3.03	NC
MW-SF-15	04/11/2016	78.27	-----	37.24	-----	41.03
MW-SF-15	10/3/2016	78.27	-----	39.56	-----	38.71
MW-SF-15	4/17/2017	78.27	-----	35.39	-----	42.88
MW-SF-15	10/2/2017	78.27	-----	39.40	-----	38.87
MW-SF-16	08/28/2007	78.21	-----	27.51	-----	50.70
MW-SF-16	11/12/2007	78.21	-----	28.40	-----	49.81
MW-SF-16	08/15/2008	78.21	-----	29.36	-----	48.85
MW-SF-16	10/17/2008	78.21	-----	29.51	-----	48.70
MW-SF-16	04/21/2009	78.21	-----	29.60	-----	48.61
MW-SF-16	10/04/2010	78.21	-----	30.49	-----	47.72
MW-SF-16	04/12/2011	78.21	-----	29.52	-----	48.69
MW-SF-16	10/10/2011	78.21	-----	29.85	-----	48.36
MW-SF-16	10/15/2012	78.21	-----	32.47	-----	45.74
MW-SF-16	05/24/2013	78.21	32.73	32.97	0.24	NC
MW-SF-16	11/14/2013	78.21	33.21	33.80	0.59	NC
MW-SF-16	04/18/2014	78.21	33.65	34.20	0.55	NC
MW-SF-16	10/27/2014	78.21	-----	34.25	-----	43.96
MW-SF-16	04/20/2015	78.21	-----	34.52	-----	43.69
MW-SF-16	10/21/2015	78.21	-----	34.56	-----	43.65
MW-SF-16	04/11/2016	78.21	-----	37.15	-----	41.06
MW-SF-16	10/3/2016	78.21	-----	39.35	-----	38.86
MW-SF-16	4/17/2017	78.21	-----	35.20	-----	43.01
MW-SF-16	10/2/2017	78.21	-----	DRY (to 34.82)	-----	NC

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
OLD_TF-24	11/20/1996	76.36	----	31.18	----	45.18
OLD_TF-24	04/27/2007	76.36	----	27.39	----	48.97
PW-1	05/28/1996	75.52	----	29.74	----	45.78
PW-1	11/20/1996	75.52	----	29.04	----	46.48
PW-1	07/01/1997	75.52	----	30.17	----	45.35
PW-1	12/31/1997	75.52	----	28.95	----	46.57
PW-1	05/01/1998	75.52	----	27.37	----	48.15
PW-1	05/06/1999	75.52	----	27.44	----	48.08
PW-1	08/09/1999	75.52	----	27.87	----	47.65
PW-1	11/15/1999	75.52	----	27.78	----	47.74
PW-1	05/15/2000	75.52	----	27.63	----	47.89
PW-1	11/13/2000	75.52	----	28.84	----	46.68
PW-1	05/07/2001	75.52	----	27.01	----	48.51
PW-1	11/05/2001	75.52	----	26.72	----	48.80
PW-1	04/08/2002	75.52	----	27.45	----	48.07
PW-1	10/21/2002	75.52	----	27.63	----	47.89
PW-1	04/07/2003	75.52	----	27.60	----	47.92
PW-1	10/06/2003	75.52	----	27.68	----	47.84
PW-1	01/11/2004	75.52	----	28.61	----	46.91
PW-1	04/19/2004	75.52	----	28.85	----	46.67
PW-1	05/02/2005	75.52	----	25.43	----	50.09
PW-1	05/01/2006	75.52	----	25.03	----	50.49
PW-1	12/04/2006	75.52	----	25.83	----	49.69
PW-1	04/30/2007	75.52	----	25.80	----	49.72
PW-1	11/12/2007	75.52	----	26.03	----	49.49
PW-1	04/14/2008	75.52	----	26.41	----	49.11
PW-1	10/13/2008	75.52	----	26.85	----	48.67
PW-1	11/21/2008	75.52	----	26.80	----	48.72
PW-1	04/20/2009	75.52	----	27.27	----	48.25
PW-1	10/19/2009	75.52	----	27.74	----	47.78
PW-1	05/24/2010	75.52	----	28.00	----	47.52
PW-1	05/28/2010	75.52	----	27.98	----	47.54
PW-1	10/04/2010	75.52	----	28.10	----	47.42
PW-1	04/11/2011	75.52	----	27.03	----	48.49
PW-1	10/10/2011	75.52	----	26.77	----	48.75
PW-1	10/15/2012	75.52	----	27.76	----	47.76
PW-1	10/19/2015	75.52	----	DRY (to 27.85)	----	NC
PW-1	04/11/2016	75.52	----	DRY	----	NC
PW-1	10/3/2016	75.52	----	DRY (to 28.40)	----	NC
PW-1	4/17/2017	75.52	----	DRY	----	NC
PW-1	10/2/2017	75.52	----	34.40	----	41.12
PW-2	05/28/1996	74.65	----	27.83	----	46.82
PW-2	11/20/1996	74.65	----	28.82	----	45.83
PW-2	07/01/1997	74.65	----	31.20	----	43.45

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
PW-2	12/31/1997	74.65	----	28.52	----	46.13
PW-2	05/01/1998	74.65	----	26.34	----	48.31
PW-2	02/02/1999	74.65	----	25.39	----	49.26
PW-2	05/06/1999	74.65	----	26.42	----	48.23
PW-2	08/09/1999	74.65	----	26.92	----	47.73
PW-2	11/15/1999	74.65	----	28.05	----	46.60
PW-2	02/29/2000	74.65	----	26.82	----	47.83
PW-2	05/15/2000	74.65	----	27.12	----	47.53
PW-2	08/28/2000	74.65	----	28.10	----	46.55
PW-2	11/13/2000	74.65	----	28.36	----	46.29
PW-2	02/05/2001	74.65	----	26.84	----	47.81
PW-2	05/07/2001	74.65	----	26.22	----	48.43
PW-2	09/18/2001	74.65	----	25.85	----	48.80
PW-2	11/05/2001	74.65	----	26.00	----	48.65
PW-2	01/29/2002	74.65	----	26.09	----	48.56
PW-2	04/08/2002	74.65	----	26.69	----	47.96
PW-2	10/21/2002	74.65	----	26.95	----	47.70
PW-2	01/14/2003	74.65	----	26.86	----	47.79
PW-2	04/07/2003	74.65	----	28.96	----	45.69
PW-2	07/07/2003	74.71	----	27.51	----	47.20
PW-2	10/06/2003	74.65	----	27.00	----	47.65
PW-2	01/11/2004	74.71	----	28.02	----	46.69
PW-2	01/20/2004	74.71	----	29.28	----	45.43
PW-2	04/19/2004	74.71	----	26.21	----	48.50
PW-2	04/27/2004	74.71	----	27.69	----	47.02
PW-2	06/07/2004	74.71	----	28.13	----	46.58
PW-2	07/08/2004	74.71	----	29.35	----	45.36
PW-2	05/02/2005	74.71	----	24.56	----	50.15
PW-2	10/31/2005	74.71	----	23.80	----	50.91
PW-2	05/01/2006	74.71	----	24.28	----	50.43
PW-2	12/04/2006	74.71	----	25.05	----	49.66
PW-2	04/30/2007	74.71	----	25.02	----	49.69
PW-2	11/12/2007	74.71	----	25.41	----	49.30
PW-2	04/14/2008	74.71	----	25.75	----	48.96
PW-2	10/13/2008	74.71	----	25.15	----	49.56
PW-2	10/19/2015	74.71	----	DRY (to 25.98)	----	NC
PW-2	04/11/2016	74.71	----	DRY	----	NC
PW-2	10/3/2016	74.71	----	DRY (to 25.90)	----	NC
PW-2	4/17/2017	74.71	----	DRY	----	NC
PW-2	10/2/2017	74.71	----	DRY (to 25.84)	----	NC
PW-3	05/28/1996	73.64	----	26.73	----	46.91
PW-3	11/20/1996	73.64	----	27.11	----	46.53
PW-3	07/01/1997	73.64	----	28.84	----	44.80
PW-3	12/31/1997	73.64	----	27.29	----	46.35

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
PW-3	05/01/1998	73.64	----	25.10	----	48.54
PW-3	02/03/1999	73.64	----	24.23	----	49.41
PW-3	05/04/1999	73.64	----	25.05	----	48.59
PW-3	08/10/1999	73.64	----	25.35	----	48.29
PW-3	11/13/2000	73.64	----	26.46	----	47.18
PW-3	02/05/2001	73.64	----	25.60	----	48.04
PW-3	05/07/2001	73.64	----	24.96	----	48.68
PW-3	09/18/2001	73.64	----	24.72	----	48.92
PW-3	11/05/2001	73.64	----	24.80	----	48.84
PW-3	01/29/2002	73.64	----	24.91	----	48.73
PW-3	04/08/2002	73.64	----	25.30	----	48.34
PW-3	10/21/2002	73.64	----	25.76	----	47.88
PW-3	01/14/2003	73.64	----	25.72	----	47.92
PW-3	04/07/2003	73.64	----	26.17	----	47.47
PW-3	07/07/2003	73.71	----	25.81	----	47.90
PW-3	10/06/2003	73.64	----	25.63	----	48.01
PW-3	01/11/2004	73.71	----	26.03	----	47.68
PW-3	01/20/2004	73.71	----	26.36	----	47.35
PW-3	04/19/2004	73.71	----	26.63	----	47.08
PW-3	04/27/2004	73.71	----	26.34	----	47.37
PW-3	06/07/2004	73.71	----	26.63	----	47.08
PW-3	07/08/2004	73.71	----	26.81	----	46.90
PW-3	05/02/2005	73.71	----	23.48	----	50.23
PW-3	10/31/2005	73.71	----	23.61	----	50.10
PW-3	05/01/2006	73.71	----	23.22	----	50.49
PW-3	12/04/2006	73.71	----	23.95	----	49.76
PW-3	04/30/2007	73.71	----	23.99	----	49.72
PW-3	11/12/2007	73.71	----	24.33	----	49.38
PW-3	04/14/2008	73.71	----	24.75	----	48.96
PW-3	10/13/2008	73.71	----	26.20	----	47.51
PW-3	04/20/2009	73.71	----	25.40	----	48.31
PW-3	10/19/2009	73.71	----	26.03	----	47.68
PW-3	05/24/2010	73.71	----	26.45	----	47.26
PW-3	05/28/2010	73.71	----	26.41	----	47.30
PW-3	10/04/2010	73.71	----	26.61	----	47.10
PW-3	04/11/2011	73.71	----	25.60	----	48.11
PW-3	10/10/2011	73.71	----	25.57	----	48.14
PW-3	04/16/2012	73.71	----	26.55	----	47.16
PW-3	04/08/2013	73.71	----	27.79	----	45.92
PW-3	10/07/2013	73.71	----	28.57	----	45.14
PW-3	04/14/2014	73.71	----	29.20	----	44.51
PW-3	10/27/2014	73.71	----	29.73	----	43.98
PW-3	04/20/2015	73.71	----	30.62	----	43.09
PW-3	10/19/2015	73.71	----	31.08	----	42.63

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
PW-3	04/11/2016	73.71	----	32.37	----	41.34
PW-3	10/3/2016	73.71	----	33.23	----	40.48
PW-3	4/17/2017	73.71	----	31.60	----	42.11
PW-3	10/2/2017	73.71	----	33.26	----	40.45
PZ-1	11/20/1996	73.74	----	26.91	----	46.83
PZ-1	07/01/1997	73.74	----	27.61	----	46.13
PZ-1	12/31/1997	73.74	----	27.03	----	46.71
PZ-1	05/01/1998	73.74	----	24.13	----	49.61
PZ-1	05/04/1999	73.74	----	25.74	----	48.00
PZ-1	08/09/1999	73.74	----	25.77	----	47.97
PZ-1	11/15/1999	73.74	----	26.46	----	47.28
PZ-1	05/15/2000	73.74	----	26.09	----	47.65
PZ-1	11/13/2000	73.74	----	26.51	----	47.23
PZ-1	05/07/2001	73.74	----	24.78	----	48.96
PZ-1	11/05/2001	73.74	----	24.81	----	48.93
PZ-1	04/08/2002	73.74	----	25.50	----	48.24
PZ-2	05/28/1996	73.96	----	28.26	----	45.70
PZ-2	11/20/1996	73.96	----	27.49	----	46.47
PZ-2	07/01/1997	73.96	27.56	28.92	1.36	NC
PZ-2	12/31/1997	73.96	28.87	29.45	0.58	NC
PZ-2	05/01/1998	73.96	23.83	25.40	1.57	NC
PZ-2	05/04/1999	73.96	25.38	27.20	1.82	NC
PZ-2	08/09/1999	73.96	25.71	27.58	1.87	NC
PZ-2	11/15/1999	73.96	----	26.83	----	47.13
PZ-2	05/15/2000	73.96	----	26.17	----	47.79
PZ-2	11/13/2000	73.96	26.58	26.88	0.30	NC
PZ-2	05/07/2001	73.96	24.99	25.21	0.22	NC
PZ-2	11/05/2001	73.96	24.87	25.09	0.22	NC
PZ-2	04/08/2002	73.96	24.96	24.96	0.00	NC
PZ-2	10/21/2002	73.96	26.31	26.44	0.13	NC
PZ-2	04/07/2003	73.96	26.12	26.22	0.10	NC
PZ-2	10/06/2003	73.96	25.51	25.53	0.02	NC
PZ-2	04/19/2004	73.96	26.81	26.89	0.08	NC
PZ-2	11/02/2004	73.96	27.19	27.24	0.05	NC
PZ-2	05/02/2005	73.96	----	22.18	----	51.78
PZ-2	10/31/2005	73.96	----	24.11	----	49.85
PZ-2	05/22/2006	73.96	----	23.16	----	50.80
PZ-2	12/04/2006	73.96	----	23.85	----	50.11
PZ-2	04/30/2007	73.96	----	23.97	----	49.99
PZ-2	11/12/2007	73.96	----	24.30	----	49.66
PZ-2	04/14/2008	73.96	----	24.69	----	49.27
PZ-2	10/13/2008	73.96	----	25.35	----	48.61
PZ-2	05/22/2009	73.96	----	25.55	----	48.41
PZ-2	05/24/2010	73.96	----	26.30	----	47.66

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
PZ-2	05/28/2010	73.96	----	26.30	----	47.66
PZ-2	10/04/2010	73.96	----	26.36	----	47.60
PZ-2	01/10/2011	73.96	----	27.57	----	46.39
PZ-2	04/11/2011	73.96	----	25.32	----	48.64
PZ-2	10/10/2011	73.96	----	25.67	----	48.29
PZ-2	01/09/2012	73.96	----	27.21	----	46.75
PZ-2	04/27/2012	73.96	----	27.83	----	46.13
PZ-2	07/09/2012	73.96	----	28.16	----	45.80
PZ-2	10/15/2012	73.96	----	27.76	----	46.20
PZ-2	04/08/2013	73.96	----	28.68	----	45.28
PZ-2	10/07/2013	73.96	----	29.28	----	44.68
PZ-2	04/14/2014	73.96	----	29.74	----	44.22
PZ-2	04/20/2015	73.96	----	30.48	----	43.48
PZ-2	10/19/2015	73.96	----	31.18	----	42.78
PZ-2	04/11/2016	73.96	----	32.97	----	40.99
PZ-2	10/3/2016	73.96	----	34.67	----	39.29
PZ-2	4/17/2017	73.96	----	31.13	----	42.83
PZ-2	10/2/2017	73.96	----	34.65	----	39.31
PZ-3	05/28/1996	76.17	27.83	32.71	4.88	NC
PZ-3	11/20/1996	76.17	28.79	32.80	4.01	NC
PZ-3	07/01/1997	76.17	28.75	30.69	1.94	NC
PZ-3	12/31/1997	76.17	28.60	32.86	4.26	NC
PZ-3	05/01/1998	76.17	18.34	25.21	6.87	NC
PZ-3	05/25/1999	76.17	----	31.70	----	44.47
PZ-3	05/19/2000	76.17	27.48	31.54	4.06	NC
PZ-3	11/13/2000	76.17	27.01	30.05	3.04	NC
PZ-3	05/07/2001	76.17	25.99	30.30	4.31	NC
PZ-3	04/08/2002	76.17	----	31.00	----	45.17
PZ-3	09/19/2002	76.17	28.84	29.94	1.10	NC
PZ-3	10/21/2002	76.17	28.10	29.66	1.56	NC
PZ-3	04/07/2003	76.17	27.81	28.80	0.99	NC
PZ-3	10/06/2003	76.17	27.65	28.90	1.25	NC
PZ-3	04/19/2004	76.17	29.08	29.68	0.60	NC
PZ-3	11/01/2004	76.17	28.32	29.63	1.31	NC
PZ-3	02/28/2005	76.17	24.32	26.89	2.57	NC
PZ-3	03/06/2006	76.17	24.97	25.12	0.15	NC
PZ-3	05/01/2006	76.17	25.39	25.96	0.57	NC
PZ-3	08/26/2006	76.17	25.76	26.26	0.50	NC
PZ-3	12/01/2006	76.17	26.11	26.77	0.66	NC
PZ-3	03/21/2007	76.17	26.05	26.16	0.11	NC
PZ-3	04/30/2007	76.17	26.66	26.68	0.02	NC
PZ-3	02/05/2008	76.17	----	27.84	----	48.33
PZ-3	07/24/2008	76.17	----	27.33	----	48.84
PZ-3	10/14/2008	76.17	----	28.07	----	48.10

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
PZ-3	02/10/2009	76.17	----	27.31	----	48.86
PZ-3	04/20/2009	76.17	----	27.94	----	48.23
PZ-3	07/16/2009	76.17	----	28.97	----	47.20
PZ-3	04/08/2010	76.17	----	28.40	----	47.77
PZ-3	04/12/2010	76.17	----	28.14	----	48.03
PZ-3	01/08/2011	76.17	----	28.85	----	47.32
PZ-3	04/08/2011	76.17	----	27.63	----	48.54
PZ-3	07/08/2011	76.17	----	27.85	----	48.32
PZ-3	10/07/2011	76.17	----	28.46	----	47.71
PZ-3	04/12/2012	76.17	----	29.48	----	46.69
PZ-3	04/19/2012	76.17	----	29.30	----	46.87
PZ-3	01/11/2013	76.17	30.20	33.08	2.88	NC
PZ-3	04/03/2013	76.17	30.63	30.86	0.23	NC
PZ-3	04/08/2013	76.17	30.56	30.99	0.43	NC
PZ-3	10/02/2013	76.17	----	31.45	----	44.72
PZ-3	04/07/2014	76.17	----	32.27	----	43.90
PZ-3	04/18/2014	76.17	----	31.92	----	44.25
PZ-3	10/27/2014	76.17	----	32.41	----	43.76
PZ-3	04/20/2015	76.17	----	32.80	----	43.37
PZ-3	10/20/2015	76.17	33.38	34.09	0.71	NC
PZ-3	04/11/2016	76.17	----	34.07	----	42.10
PZ-3	10/3/2016	76.17	34.37	35.14	0.77	NC
PZ-3	4/20/2017	76.17	33.55	33.56	0.01	NC
PZ-3	10/3/2017	76.17	----	34.42	----	41.75
PZ-4	05/28/1996	76.13	----	28.79	----	47.34
PZ-4	11/20/1996	76.13	----	29.80	----	46.33
PZ-4	07/01/1997	76.13	----	29.66	----	46.47
PZ-4	12/31/1997	76.13	----	29.63	----	46.50
PZ-4	05/01/1998	76.13	----	26.82	----	49.31
PZ-4	05/25/1999	76.13	----	27.57	----	48.56
PZ-4	05/15/2000	76.13	----	28.28	----	47.85
PZ-4	11/13/2000	76.13	----	27.89	----	48.24
PZ-4	05/07/2001	76.13	----	25.08	----	51.05
PZ-4	05/07/2001	76.13	----	26.97	----	49.16
PZ-4	04/08/2002	76.13	----	28.16	----	47.97
PZ-4	09/19/2002	76.13	----	29.20	----	46.93
PZ-4	04/07/2003	76.13	----	28.08	----	48.05
PZ-4	10/06/2003	76.13	----	28.03	----	48.10
PZ-4	04/19/2004	76.13	----	29.50	----	46.63
PZ-4	11/01/2004	76.13	----	28.80	----	47.33
PZ-4	02/28/2005	76.13	----	25.13	----	51.00
PZ-4	05/02/2005	76.13	----	24.50	----	51.63
PZ-4	03/06/2006	76.13	----	25.25	----	50.88
PZ-4	05/01/2006	76.13	----	25.63	----	50.50

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
PZ-4	08/26/2006	76.13	----	26.05	----	50.08
PZ-4	12/01/2006	76.13	----	26.38	----	49.75
PZ-4	03/21/2007	76.13	----	26.12	----	50.01
PZ-4	04/30/2007	76.13	----	26.93	----	49.20
PZ-4	08/28/2007	76.13	----	26.54	----	49.59
PZ-4	11/12/2007	76.13	----	27.50	----	48.63
PZ-4	02/05/2008	76.13	----	27.42	----	48.71
PZ-4	04/11/2008	76.13	----	24.85	----	51.28
PZ-4	10/14/2008	76.13	----	28.31	----	47.82
PZ-4	02/10/2009	76.13	----	27.05	----	49.08
PZ-4	04/20/2009	76.13	----	28.44	----	47.69
PZ-4	07/16/2009	76.13	----	29.05	----	47.08
PZ-4	04/08/2010	76.13	----	28.41	----	47.72
PZ-4	10/01/2010	76.13	----	28.93	----	47.20
PZ-4	01/08/2011	76.13	----	28.98	----	47.15
PZ-4	04/12/2012	76.13	----	29.61	----	46.52
PZ-5	05/07/2001	73.97	----	23.13	----	50.84
PZ-5	10/06/2003	73.97	----	24.58	----	49.39
PZ-5	05/02/2005	73.97	----	19.12	----	54.85
PZ-5	10/31/2005	73.97	----	21.13	----	52.84
PZ-5	02/27/2006	73.97	----	22.06	----	51.91
PZ-5	05/01/2006	73.97	----	22.20	----	51.77
PZ-5	09/18/2006	73.97	----	22.91	----	51.06
PZ-5	12/04/2006	73.97	----	23.26	----	50.71
PZ-5	03/12/2007	73.97	----	23.71	----	50.26
PZ-5	04/30/2007	73.97	----	23.85	----	50.12
PZ-5	08/28/2007	73.97	----	23.85	----	50.12
PZ-5	11/12/2007	73.97	----	24.26	----	49.71
PZ-5	02/19/2008	73.97	----	24.68	----	49.29
PZ-5	04/14/2008	73.97	----	24.10	----	49.87
PZ-5	08/11/2008	73.97	----	24.53	----	49.44
PZ-5	10/13/2008	73.97	----	25.12	----	48.85
PZ-5	04/20/2009	73.97	----	24.81	----	49.16
PZ-5	07/20/2009	73.97	----	25.20	----	48.77
PZ-5	10/19/2009	73.97	----	26.41	----	47.56
PZ-5	03/15/2010	73.97	----	25.99	----	47.98
PZ-5	04/16/2010	73.97	----	25.12	----	48.85
PZ-5	05/24/2010	73.97	----	25.71	----	48.26
PZ-5	05/28/2010	73.97	----	25.68	----	48.29
PZ-5	06/22/2010	73.97	----	25.54	----	48.43
PZ-5	07/12/2010	73.97	----	26.09	----	47.88
PZ-5	08/12/2010	73.97	----	26.16	----	47.81
PZ-5	09/20/2010	73.97	----	26.52	----	47.45
PZ-5	10/04/2010	73.97	----	25.98	----	47.99

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
PZ-5	11/16/2010	73.97	----	26.46	----	47.51
PZ-5	12/22/2010	73.97	----	25.12	----	48.85
PZ-5	01/10/2011	73.97	----	26.54	----	47.43
PZ-5	02/24/2011	73.97	----	25.55	----	48.42
PZ-5	03/23/2011	73.97	----	25.28	----	48.69
PZ-5	04/11/2011	73.97	----	24.70	----	49.27
PZ-5	05/13/2011	73.97	----	25.21	----	48.76
PZ-5	06/22/2011	73.97	----	25.37	----	48.60
PZ-5	07/11/2011	73.97	----	25.47	----	48.50
PZ-5	08/19/2011	73.97	----	25.35	----	48.62
PZ-5	09/22/2011	73.97	----	25.96	----	48.01
PZ-5	10/10/2011	73.97	----	25.55	----	48.42
PZ-5	11/28/2011	73.97	----	26.16	----	47.81
PZ-5	12/21/2011	73.97	----	26.48	----	47.49
PZ-5	01/09/2012	73.97	----	26.47	----	47.50
PZ-5	02/23/2012	73.97	----	27.27	----	46.70
PZ-5	03/28/2012	73.97	----	27.10	----	46.87
PZ-5	04/16/2012	73.97	----	26.59	----	47.38
PZ-5	05/25/2012	73.97	----	26.94	----	47.03
PZ-5	06/15/2012	73.97	----	27.44	----	46.53
PZ-5	07/09/2012	73.97	----	27.26	----	46.71
PZ-5	08/29/2012	73.97	----	27.72	----	46.25
PZ-5	09/26/2012	73.97	----	28.03	----	45.94
PZ-5	10/15/2012	73.97	----	28.25	----	45.72
PZ-5	11/29/2012	73.97	----	28.34	----	45.63
PZ-5	12/26/2012	73.97	----	28.30	----	45.67
PZ-5	01/14/2013	73.97	----	28.42	----	45.55
PZ-5	02/20/2013	73.97	----	28.40	----	45.57
PZ-5	04/08/2013	73.97	----	28.41	----	45.56
PZ-5	10/07/2013	73.97	----	29.31	----	44.66
PZ-5	04/14/2014	73.97	----	28.91	----	45.06
PZ-5	10/27/2014	73.97	----	29.41	----	44.56
PZ-5	04/20/2015	73.97	----	29.66	----	44.31
PZ-5	10/19/2015	73.97	----	30.50	----	43.47
PZ-5	04/11/2016	73.97	----	31.36	----	42.61
PZ-5	10/3/2016	73.97	----	31.00	----	42.97
PZ-5	4/17/2017	73.97	----	30.07	----	43.90
PZ-5	10/2/2017	73.97	----	31.45	----	42.52
PZ-6	07/07/2003	73.91	----	25.65	----	48.26
PZ-6	01/20/2004	73.91	----	25.94	----	47.97
PZ-6	04/27/2004	73.91	----	26.49	----	47.42
PZ-6	06/07/2004	73.91	----	26.56	----	47.35
PZ-6	07/08/2004	73.91	----	26.57	----	47.34
PZ-7A	08/01/2005	73.87	----	20.22	----	53.65

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PZ-7A	05/24/2010	73.87	----	25.30	----	48.57
PZ-7A	05/28/2010	73.87	----	25.29	----	48.58
PZ-7A	10/04/2010	73.87	----	25.70	----	48.17
PZ-7A	04/11/2011	73.87	----	24.48	----	49.39
PZ-7A	10/10/2011	73.87	----	25.15	----	48.72
PZ-7A	04/20/2015	73.87	----	29.52	----	44.35
PZ-7B	08/01/2005	73.79	----	20.80	----	52.99
PZ-7B	05/24/2010	73.79	----	25.32	----	48.47
PZ-7B	05/28/2010	73.79	----	25.30	----	48.49
PZ-7B	10/04/2010	73.79	----	25.88	----	47.91
PZ-7B	04/11/2011	73.79	----	24.57	----	49.22
PZ-7B	10/10/2011	73.79	----	25.30	----	48.49
PZ-7B	04/20/2015	73.79	----	29.60	----	44.19
PZ-8A	08/01/2005	75.81	----	22.39	----	53.42
PZ-8A	12/04/2006	75.81	----	25.14	----	50.67
PZ-8A	05/24/2010	75.81	----	27.60	----	48.21
PZ-8A	05/28/2010	75.81	----	27.38	----	48.43
PZ-8A	10/04/2010	75.81	----	27.79	----	48.02
PZ-8A	04/11/2011	75.81	----	26.50	----	49.31
PZ-8A	10/10/2011	75.81	----	27.28	----	48.53
PZ-8A	04/20/2015	75.81	----	31.29	----	44.52
PZ-8B	08/01/2005	75.69	----	23.61	----	52.08
PZ-8B	12/04/2006	75.69	----	25.16	----	50.53
PZ-8B	05/24/2010	75.69	----	27.37	----	48.32
PZ-8B	05/28/2010	75.69	----	27.66	----	48.03
PZ-8B	10/04/2010	75.69	----	27.90	----	47.79
PZ-8B	04/11/2011	75.69	----	26.52	----	49.17
PZ-8B	10/10/2011	75.69	----	27.32	----	48.37
PZ-8B	04/20/2015	75.69	----	31.69	----	44.00
PZ-9A	08/01/2005	76.14	----	22.93	----	53.21
PZ-9A	10/04/2010	76.14	----	28.20	----	47.94
PZ-9A	04/11/2011	76.14	----	26.94	----	49.20
PZ-9A	10/10/2011	76.14	----	27.75	----	48.39
PZ-9A	04/16/2012	76.14	----	28.95	----	47.19
PZ-9A	10/15/2012	76.14	----	30.18	----	45.96
PZ-9A	04/08/2013	76.14	----	30.67	----	45.47
PZ-9A	04/20/2015	76.14	----	32.21	----	43.93
PZ-9B	08/01/2005	76.26	----	23.71	----	52.55
PZ-9B	10/04/2010	76.26	----	28.51	----	47.75
PZ-9B	04/11/2011	76.26	----	27.20	----	49.06
PZ-9B	10/10/2011	76.26	----	28.00	----	48.26
PZ-9B	04/16/2012	76.26	----	29.10	----	47.16
PZ-9B	10/15/2012	76.26	----	30.54	----	45.72
PZ-9B	04/08/2013	76.26	----	30.89	----	45.37

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
PZ-9B	04/20/2015	76.26	----	32.24	----	44.02
PZ-10	07/30/2003	74.19	----	25.74	----	48.45
PZ-10	10/06/2003	74.19	----	25.79	----	48.40
PZ-10	01/27/2004	74.19	----	26.13	----	48.06
PZ-10	04/19/2004	74.34	----	26.76	----	47.58
PZ-10	07/19/2004	74.34	----	26.40	----	47.94
PZ-10	11/01/2004	74.34	----	27.11	----	47.23
PZ-10	02/01/2005	74.34	----	23.33	----	51.01
PZ-10	05/02/2005	74.34	----	21.80	----	52.54
PZ-10	08/01/2005	74.34	----	22.21	----	52.13
PZ-10	10/31/2005	74.34	----	27.13	----	47.21
PZ-10	02/27/2006	74.34	----	23.18	----	51.16
PZ-10	05/01/2006	74.34	----	23.18	----	51.16
PZ-10	09/18/2006	74.34	----	24.37	----	49.97
PZ-10	12/04/2006	74.34	----	24.10	----	50.24
PZ-10	03/12/2007	74.34	----	24.44	----	49.90
PZ-10	04/30/2007	73.92	----	23.38	----	50.54
PZ-10	08/28/2007	74.34	----	22.67	----	51.67
PZ-10	11/12/2007	74.34	----	23.61	----	50.73
PZ-10	02/19/2008	74.34	----	25.16	----	49.18
PZ-10	04/14/2008	74.34	----	24.75	----	49.59
PZ-10	10/13/2008	74.34	----	25.61	----	48.73
PZ-10	04/20/2009	74.34	----	25.71	----	48.63
PZ-10	07/20/2009	74.34	----	26.60	----	47.74
PZ-10	10/19/2009	74.34	----	26.96	----	47.38
PZ-10	05/24/2010	74.34	----	26.51	----	47.83
PZ-10	05/28/2010	74.34	----	26.46	----	47.88
PZ-10	10/04/2010	74.34	----	26.66	----	47.68
PZ-10	04/11/2011	74.34	----	25.57	----	48.77
PZ-10	04/16/2012	74.34	----	28.00	----	46.34
PZ-10	10/15/2012	74.34	----	29.81	----	44.53
PZ-10	04/08/2013	74.34	----	28.94	----	45.40
PZ-10	04/20/2015	74.34	----	30.72	----	43.62
PZ-10	10/19/2015	74.34	----	31.42	----	42.92
PZ-10	04/11/2016	74.34	----	33.37	----	40.97
PZ-10	10/3/2016	74.34	----	DRY (to 34.81)	----	NC
PZ-10	4/17/2017	74.34	----	DRY	----	NC
PZ-10	10/2/2017	74.34	----	DRY (to 28.97)	----	NC
RTF-18-E	4/19/2017	75.19	31.35	31.53	0.18	NC
RTF-18-E	9/27/2017	75.19	----	33.52	----	41.67
RTF-18-N	4/19/2017	75.17	----	31.44	----	43.73
RTF-18-N	9/27/2017	75.17	----	33.02	----	42.15
RTF-18-NNW	4/19/2017	76.77	----	31.72	----	45.05
RTF-18-NNW	9/27/2017	76.77	----	32.53	----	44.24

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
RTF-18-NW	4/19/2017	76.22	31.04	31.08	0.04	NC
RTF-18-NW	9/27/2017	76.22	----	32.89	----	43.33
RTF-18-W	4/19/2017	74.86	30.98	31.15	0.17	NC
RTF-18-W	9/27/2017	74.86	----	33.49	----	41.37
TF-8	11/20/1996	75.60	----	29.39	----	46.21
TF-8	07/01/1997	75.60	----	29.70	----	45.90
TF-8	12/31/1997	75.60	----	29.33	----	46.27
TF-8	05/01/1998	75.60	----	26.64	----	48.96
TF-8	05/25/1999	75.60	----	27.60	----	48.00
TF-8	05/15/2000	75.60	----	27.32	----	48.28
TF-8	05/07/2001	75.60	----	28.91	----	46.69
TF-8	04/08/2002	74.86	----	26.79	----	48.07
TF-8	09/19/2002	75.60	----	28.77	----	46.83
TF-8	10/21/2002	75.60	----	26.32	----	49.28
TF-8	04/22/2003	74.86	----	27.50	----	47.36
TF-8	10/06/2003	74.86	----	27.32	----	47.54
TF-8	04/19/2004	74.86	----	28.62	----	46.24
TF-8	11/01/2004	74.86	----	28.54	----	46.32
TF-8	02/28/2005	74.86	----	24.95	----	49.91
TF-8	05/02/2005	74.86	----	24.26	----	50.60
TF-8	03/06/2006	74.86	----	24.21	----	50.65
TF-8	05/01/2006	74.86	----	24.51	----	50.35
TF-8	08/26/2006	74.86	----	25.84	----	49.02
TF-8	12/01/2006	74.86	----	26.17	----	48.69
TF-8	03/21/2007	74.86	----	25.52	----	49.34
TF-8	04/30/2007	74.86	----	25.54	----	49.32
TF-8	08/28/2007	75.60	----	25.92	----	49.68
TF-8	11/12/2007	74.86	----	26.12	----	48.74
TF-8	02/05/2008	75.60	----	26.69	----	48.91
TF-8	04/11/2008	74.86	----	25.78	----	49.08
TF-8	07/16/2008	75.60	----	28.42	----	47.18
TF-8	07/24/2008	75.60	----	27.05	----	48.55
TF-8	10/14/2008	75.60	----	27.84	----	47.76
TF-8	02/10/2009	75.60	----	27.69	----	47.91
TF-8	04/08/2010	75.60	----	28.30	----	47.30
TF-8	10/01/2010	74.86	----	27.81	----	47.05
TF-8	01/07/2011	74.86	----	27.90	----	46.96
TF-8	04/08/2011	74.86	----	26.52	----	48.34
TF-8	07/08/2011	74.86	----	26.66	----	48.20
TF-8	10/07/2011	74.86	----	27.18	----	47.68
TF-8	04/12/2012	74.86	----	28.14	----	46.72
TF-8	01/11/2013	74.86	----	29.56	----	45.30
TF-8	04/03/2013	74.86	----	29.35	----	45.51
TF-8	10/02/2013	74.86	----	30.14	----	44.72

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
TF-8	04/09/2014	74.86	----	30.91	----	43.95
TF-8	04/17/2014	74.86	----	30.79	----	44.07
TF-8	10/27/2014	74.86	----	31.22	----	43.64
TF-8	04/20/2015	74.86	----	31.51	----	43.35
TF-8	10/20/2015	74.86	----	32.18	----	42.68
TF-8	04/11/2016	74.86	----	32.88	----	41.98
TF-8	10/3/2016	74.86	----	33.41	----	41.45
TF-8	4/17/2017	74.86	----	32.41	----	42.45
TF-8	10/3/2017	74.86	----	33.53	----	41.33
TF-9	11/20/1996	75.27	----	31.31	----	43.96
TF-9	07/01/1997	75.27	----	30.55	----	44.72
TF-9	12/31/1997	75.27	----	29.12	----	46.15
TF-9	05/01/1998	75.27	26.32	26.35	0.03	NC
TF-9	05/25/1999	75.27	27.00	27.04	0.04	NC
TF-9	05/15/2000	75.27	----	26.85	----	48.42
TF-9	05/07/2001	75.27	----	29.62	----	45.65
TF-9	04/08/2002	74.47	----	27.83	----	46.64
TF-9	09/19/2002	75.27	----	28.60	----	46.67
TF-9	10/21/2002	75.27	----	27.72	----	47.55
TF-9	04/22/2003	75.27	----	27.13	----	48.14
TF-9	10/06/2003	74.47	----	26.73	----	47.74
TF-9	04/19/2004	74.47	----	28.18	----	46.29
TF-9	11/01/2004	75.27	----	28.61	----	46.66
TF-9	02/28/2005	75.27	----	25.54	----	49.73
TF-9	05/02/2005	75.27	24.06	24.09	0.03	NC
TF-9	03/06/2006	75.27	----	23.97	----	51.30
TF-9	05/01/2006	74.47	----	24.22	----	50.25
TF-9	08/26/2006	75.27	25.38	25.40	0.02	NC
TF-9	12/01/2006	75.27	----	25.74	----	49.53
TF-9	03/21/2007	75.27	----	25.18	----	50.09
TF-9	04/30/2007	74.47	----	25.00	----	49.47
TF-9	08/28/2007	75.27	----	26.02	----	49.25
TF-9	11/12/2007	74.47	----	25.90	----	48.57
TF-9	02/05/2008	75.27	----	26.88	----	48.39
TF-9	04/11/2008	74.47	----	25.50	----	48.97
TF-9	07/24/2008	74.47	----	27.16	----	47.31
TF-9	02/10/2009	75.27	----	27.82	----	47.45
TF-9	07/16/2009	75.27	----	28.28	----	46.99
TF-9	04/07/2010	75.27	----	27.79	----	47.48
TF-9	10/01/2010	74.47	----	27.05	----	47.42
TF-9	01/07/2011	74.47	----	27.38	----	47.09
TF-9	04/08/2011	74.47	----	25.92	----	48.55
TF-9	07/08/2011	74.47	----	26.03	----	48.44
TF-9	04/12/2012	74.47	----	27.62	----	46.85

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
TF-9	01/11/2013	74.47	----	29.14	----	45.33
TF-9	04/03/2013	74.47	----	28.93	----	45.54
TF-9	10/02/2013	74.47	----	29.83	----	44.64
TF-9	04/09/2014	74.47	----	30.43	----	44.04
TF-9	04/17/2014	74.47	----	30.32	----	44.15
TF-9	10/27/2014	74.47	----	30.67	----	43.80
TF-9	Well decommissioned in December 2014 prior to remedial excavation					
TF-9R	10/3/2017	78.00	----	37.05	----	40.95
TF-10	11/20/1996	74.19	----	28.03	----	46.16
TF-10	07/01/1997	74.19	----	30.60	----	43.59
TF-10	12/31/1997	74.19	----	27.97	----	46.22
TF-10	05/01/1998	74.19	----	25.40	----	48.79
TF-10	05/25/1999	74.19	----	26.79	----	47.40
TF-10	05/15/2000	74.19	----	26.05	----	48.14
TF-10	04/08/2002	73.61	----	26.16	----	47.45
TF-10	09/19/2002	74.19	----	27.28	----	46.91
TF-10	10/21/2002	73.61	----	26.50	----	47.11
TF-10	04/22/2003	73.61	----	25.95	----	47.66
TF-10	10/06/2003	73.61	----	25.60	----	48.01
TF-10	04/19/2004	73.61	----	26.82	----	46.79
TF-10	11/01/2004	73.61	----	27.32	----	46.29
TF-10	02/28/2005	73.61	----	23.82	----	49.79
TF-10	05/02/2005	73.61	----	22.32	----	51.29
TF-10	03/06/2006	73.61	----	22.89	----	50.72
TF-10	05/01/2006	73.61	----	23.00	----	50.61
TF-10	08/26/2006	73.61	----	24.20	----	49.41
TF-10	12/01/2006	73.61	----	24.52	----	49.09
TF-10	03/21/2007	73.61	----	24.00	----	49.61
TF-10	04/30/2007	73.61	----	24.15	----	49.46
TF-10	08/28/2007	74.19	----	24.21	----	49.98
TF-10	11/12/2007	73.61	----	25.66	----	47.95
TF-10	02/05/2008	74.19	----	25.11	----	49.08
TF-10	04/11/2008	73.61	----	25.24	----	48.37
TF-10	07/24/2008	73.61	----	24.91	----	48.70
TF-10	10/14/2008	73.61	----	25.48	----	48.13
TF-10	02/10/2009	74.19	----	25.94	----	48.25
TF-10	07/16/2009	73.61	----	27.02	----	46.59
TF-10	04/08/2010	73.61	----	25.75	----	47.86
TF-10	10/01/2010	73.61	----	26.93	----	46.68
TF-10	01/07/2011	73.61	----	26.64	----	46.97
TF-10	04/08/2011	73.61	----	24.92	----	48.69
TF-10	07/08/2011	73.61	----	25.15	----	48.46
TF-10	10/06/2011	73.61	----	25.54	----	48.07
TF-10	04/12/2012	73.61	----	26.72	----	46.89

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
TF-10	01/11/2013	73.61	----	28.42	----	45.19
TF-10	04/03/2013	73.61	----	28.19	----	45.42
TF-11	11/20/1996	74.95	----	32.55	----	42.40
TF-11	07/01/1997	74.95	32.60	32.75	0.15	NC
TF-11	12/31/1997	74.95	----	28.52	----	46.43
TF-11	05/01/1998	74.95	----	25.99	----	48.96
TF-11	05/25/1999	74.95	26.60	26.62	0.02	NC
TF-11	05/15/2000	74.95	----	26.63	----	48.32
TF-11	05/07/2001	74.95	----	28.50	----	46.45
TF-11	04/08/2002	74.40	----	25.64	----	48.76
TF-11	09/19/2002	74.95	28.15	28.33	0.18	NC
TF-11	10/21/2002	74.95	----	27.02	----	47.93
TF-11	04/22/2003	74.40	----	31.15	----	43.25
TF-11	10/06/2003	74.40	----	27.12	----	47.28
TF-11	04/19/2004	74.95	----	28.56	----	46.39
TF-11	11/01/2004	74.95	----	27.86	----	47.09
TF-11	02/28/2005	74.95	----	23.82	----	51.13
TF-11	05/02/2005	74.95	----	22.90	----	52.05
TF-11	03/06/2006	74.95	----	24.31	----	50.64
TF-11	05/01/2006	74.95	----	24.35	----	50.60
TF-11	08/26/2006	74.95	----	24.79	----	50.16
TF-11	12/01/2006	74.95	----	25.17	----	49.78
TF-11	03/21/2007	74.95	----	25.26	----	49.69
TF-11	04/30/2007	74.40	----	25.62	----	48.78
TF-11	08/28/2007	74.95	----	26.06	----	48.89
TF-11	11/12/2007	74.95	----	26.26	----	48.69
TF-11	02/05/2008	74.95	----	27.15	----	47.80
TF-11	04/11/2008	74.40	----	25.87	----	48.53
TF-11	07/24/2008	74.40	----	26.05	----	48.35
TF-11	10/14/2008	74.40	----	26.85	----	47.55
TF-11	02/10/2009	74.95	----	26.90	----	48.05
TF-11	07/16/2009	74.95	----	27.70	----	47.25
TF-11	04/08/2010	74.95	----	27.11	----	47.84
TF-11	10/01/2010	74.40	----	27.62	----	46.78
TF-11	01/08/2011	74.40	----	27.17	----	47.23
TF-11	04/08/2011	74.40	----	24.98	----	49.42
TF-11	07/08/2011	74.40	----	25.40	----	49.00
TF-11	10/06/2011	74.40	----	26.07	----	48.33
TF-11	04/12/2012	74.40	----	27.51	----	46.89
TF-11	01/11/2013	74.40	----	29.45	----	44.95
TF-11	04/03/2013	74.40	----	29.35	----	45.05
TF-13	11/20/1996	75.90	----	30.90	----	45.00
TF-13	07/01/1997	75.90	30.90	30.95	0.05	NC
TF-13	12/31/1997	75.90	28.05	30.97	2.92	NC

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
TF-13	05/01/1998	75.90	30.65	31.10	0.45	NC
TF-13	05/25/1999	75.90	27.12	27.40	0.28	NC
TF-13	05/15/2000	75.90	31.25	31.65	0.40	NC
TF-13	05/07/2001	75.90	----	31.20	----	44.70
TF-13	04/08/2002	75.47	----	28.10	----	47.37
TF-13	09/19/2002	75.90	----	28.76	----	47.14
TF-13	10/21/2002	75.90	----	31.10	----	44.80
TF-13	04/22/2003	75.47	----	31.05	----	44.42
TF-13	10/06/2003	75.47	----	27.65	----	47.82
TF-13	04/19/2004	75.90	----	29.03	----	46.87
TF-13	11/01/2004	75.90	----	28.05	----	47.85
TF-13	02/28/2005	75.90	----	24.22	----	51.68
TF-13	05/02/2005	75.90	----	22.24	----	53.66
TF-13	03/06/2006	75.90	----	25.37	----	50.53
TF-13	05/01/2006	75.90	----	25.22	----	50.68
TF-13	08/26/2006	75.90	----	25.63	----	50.27
TF-13	12/01/2006	75.90	----	25.96	----	49.94
TF-13	03/21/2007	75.90	----	26.52	----	49.38
TF-13	04/30/2007	75.90	----	26.52	----	49.38
TF-13	08/28/2007	75.90	----	26.69	----	49.21
TF-13	11/12/2007	75.47	----	27.11	----	48.36
TF-13	02/05/2008	75.90	----	27.32	----	48.58
TF-13	04/14/2008	75.90	----	26.73	----	49.17
TF-13	07/24/2008	75.47	----	27.02	----	48.45
TF-13	10/14/2008	75.90	----	27.81	----	48.09
TF-13	02/10/2009	75.90	----	26.14	----	49.76
TF-13	07/17/2009	75.90	----	27.81	----	48.09
TF-13	04/08/2010	75.90	----	28.14	----	47.76
TF-13	10/01/2010	75.47	----	28.63	----	46.84
TF-13	01/08/2011	75.47	----	28.21	----	47.26
TF-13	04/07/2011	75.47	----	26.85	----	48.62
TF-13	07/08/2011	75.47	----	27.13	----	48.34
TF-13	10/07/2011	75.47	----	27.63	----	47.84
TF-13	01/10/2013	75.47	----	30.15	----	45.32
TF-13	04/03/2013	75.47	----	30.00	----	45.47
TF-14	11/20/1996	74.78	30.45	31.11	0.66	NC
TF-14	07/01/1997	74.78	30.60	31.10	0.50	NC
TF-14	12/31/1997	74.78	27.03	31.85	4.82	NC
TF-14	05/01/1998	74.78	29.95	30.75	0.80	NC
TF-14	05/25/1999	74.78	25.60	28.86	3.26	NC
TF-14	05/15/2000	74.78	26.65	27.95	1.30	NC
TF-14	05/07/2001	74.78	----	26.30	----	48.48
TF-14	04/08/2002	74.35	28.40	28.48	0.08	NC
TF-14	09/19/2002	74.78	----	27.68	----	47.10

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
TF-14	10/21/2002	74.78	----	28.42	----	46.36
TF-14	04/22/2003	74.35	----	26.61	----	47.74
TF-14	10/06/2003	74.35	----	26.52	----	47.83
TF-14	04/19/2004	74.35	----	27.94	----	46.41
TF-14	11/01/2004	74.35	----	27.24	----	47.11
TF-14	02/28/2005	74.35	----	23.62	----	50.73
TF-14	05/02/2005	74.35	----	22.51	----	51.84
TF-14	03/06/2006	74.78	----	24.06	----	50.72
TF-14	05/01/2006	74.78	----	24.13	----	50.65
TF-14	08/26/2006	74.78	----	24.54	----	50.24
TF-14	12/01/2006	74.78	----	24.82	----	49.96
TF-14	03/21/2007	74.78	----	25.24	----	49.54
TF-14	04/30/2007	74.78	----	25.37	----	49.41
TF-14	08/28/2007	74.78	----	25.89	----	48.89
TF-14	11/12/2007	74.35	----	25.91	----	48.44
TF-14	02/05/2008	74.78	----	26.95	----	47.83
TF-14	04/14/2008	74.78	----	26.55	----	48.23
TF-14	07/24/2008	74.35	----	26.05	----	48.30
TF-14	10/14/2008	74.78	----	26.63	----	48.15
TF-14	02/10/2009	74.78	----	26.91	----	47.87
TF-14	07/17/2009	74.78	----	26.91	----	47.87
TF-14	04/08/2010	74.78	----	26.92	----	47.86
TF-14	10/01/2010	74.35	----	27.42	----	46.93
TF-14	04/08/2011	74.35	----	25.65	----	48.70
TF-14	07/08/2011	74.35	----	25.93	----	48.42
TF-14	10/06/2011	74.35	----	26.41	----	47.94
TF-14	04/12/2012	74.35	----	27.49	----	46.86
TF-14	01/10/2013	74.35	----	29.25	----	45.10
TF-14	04/03/2013	74.35	----	28.76	----	45.59
TF-15	11/20/1996	75.40	31.09	31.42	0.33	NC
TF-15	07/01/1997	75.40	31.40	31.65	0.25	NC
TF-15	12/31/1997	75.40	27.79	31.56	3.77	NC
TF-15	05/01/1998	75.40	28.35	30.05	1.70	NC
TF-15	05/25/1999	75.40	26.41	26.94	0.53	NC
TF-15	05/15/2000	75.40	28.90	29.54	0.64	NC
TF-15	05/07/2001	75.40	28.90	29.30	0.40	NC
TF-15	04/08/2002	74.78	----	27.56	----	47.22
TF-15	09/19/2002	75.40	----	28.21	----	47.19
TF-15	10/21/2002	75.40	29.00	29.24	0.24	NC
TF-15	04/22/2003	74.78	----	27.45	----	47.33
TF-15	10/06/2003	74.78	----	27.03	----	47.75
TF-15	04/19/2004	74.78	----	28.17	----	46.61
TF-15	11/01/2004	74.78	27.77	27.79	0.02	NC
TF-15	02/28/2005	74.78	----	23.05	----	51.73

APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017
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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
TF-15	05/02/2005	74.78	----	21.67	----	53.11
TF-15	03/06/2006	75.40	----	23.91	----	51.49
TF-15	05/01/2006	75.40	----	23.90	----	51.50
TF-15	08/26/2006	75.40	----	24.49	----	50.91
TF-15	12/01/2006	75.40	----	25.31	----	50.09
TF-15	03/21/2007	75.40	----	25.18	----	50.22
TF-15	04/30/2007	75.40	----	25.88	----	49.52
TF-15	08/28/2007	75.40	----	25.62	----	49.78
TF-15	11/12/2007	74.78	----	26.39	----	48.39
TF-15	02/05/2008	75.40	----	26.42	----	48.98
TF-15	04/14/2008	75.40	----	25.72	----	49.68
TF-15	07/24/2008	74.78	----	26.72	----	48.06
TF-15	10/14/2008	75.40	----	27.29	----	48.11
TF-15	02/10/2009	75.40	----	27.78	----	47.62
TF-15	07/17/2009	75.40	----	26.82	----	48.58
TF-15	04/08/2010	75.40	----	27.43	----	47.97
TF-15	10/01/2010	74.78	----	28.03	----	46.75
TF-15	01/08/2011	74.78	----	27.55	----	47.23
TF-15	04/08/2011	74.78	----	25.96	----	48.82
TF-15	07/08/2011	74.78	----	26.33	----	48.45
TF-15	10/06/2011	74.78	----	26.81	----	47.97
TF-15	04/12/2012	74.78	----	27.94	----	46.84
TF-15	01/11/2013	74.78	29.50	29.63	0.13	NC
TF-15	04/03/2013	74.78	----	29.22	----	45.56
TF-15	10/02/2013	74.78	29.97	30.04	0.07	NC
TF-15	04/09/2014	74.78	30.22	32.25	2.03	NC
TF-15	04/16/2014	74.78	30.18	32.06	1.88	NC
TF-15	10/27/2014	74.78	30.31	30.86	0.55	NC
TF-15	04/20/2015	74.78	30.68	33.50	2.82	NC
TF-15	4/20/2017	74.78	----	31.88	----	42.90
TF-16	11/20/1996	76.48	32.52	32.75	0.23	NC
TF-16	07/01/1997	76.48	32.50	33.10	0.60	NC
TF-16	12/31/1997	76.48	28.69	32.79	4.10	NC
TF-16	05/01/1998	76.48	32.07	32.61	0.54	NC
TF-16	05/25/1999	76.48	27.82	27.90	0.08	NC
TF-16	05/15/2000	76.48	32.03	32.48	0.45	NC
TF-16	05/07/2001	76.48	31.96	32.20	0.24	NC
TF-16	04/08/2002	75.89	31.40	31.49	0.09	NC
TF-16	09/19/2002	76.48	----	29.36	----	47.12
TF-16	10/21/2002	76.48	----	32.21	----	44.27
TF-16	04/22/2003	75.89	----	28.22	----	47.67
TF-16	10/06/2003	75.89	----	28.10	----	47.79
TF-16	04/19/2004	76.48	----	29.16	----	47.32
TF-16	11/01/2004	76.48	----	28.95	----	47.53

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
TF-16	02/28/2005	76.48	----	25.20	----	51.28
TF-16	05/02/2005	76.48	----	23.70	----	52.78
TF-16	03/06/2006	76.48	----	25.54	----	50.94
TF-16	05/01/2006	76.48	----	25.66	----	50.82
TF-16	08/26/2006	76.48	----	26.06	----	50.42
TF-16	12/01/2006	76.48	----	26.45	----	50.03
TF-16	03/21/2007	76.48	----	26.52	----	49.96
TF-16	04/30/2007	76.48	----	27.04	----	49.44
TF-16	08/28/2007	76.48	----	27.11	----	49.37
TF-16	11/12/2007	75.89	----	27.60	----	48.29
TF-16	02/05/2008	76.48	----	27.94	----	48.54
TF-16	04/14/2008	76.48	----	27.17	----	49.31
TF-16	07/24/2008	75.89	----	27.50	----	48.39
TF-16	10/14/2008	76.48	----	28.37	----	48.11
TF-16	02/10/2009	76.48	----	27.73	----	48.75
TF-16	04/20/2009	75.89	----	27.63	----	48.26
TF-16	07/17/2009	76.48	----	28.35	----	48.13
TF-16	10/19/2009	75.89	----	29.66	----	46.23
TF-16	04/08/2010	76.48	----	27.06	----	49.42
TF-16	04/12/2010	75.89	----	27.36	----	48.53
TF-16	10/01/2010	75.89	----	28.59	----	47.30
TF-16	01/08/2011	75.89	----	28.72	----	47.17
TF-16	04/07/2011	75.89	----	27.18	----	48.71
TF-16	07/08/2011	75.89	----	27.51	----	48.38
TF-16	10/07/2011	75.89	----	28.10	----	47.79
TF-16	04/12/2012	75.89	----	29.05	----	46.84
TF-16	04/19/2012	75.89	----	29.08	----	46.81
TF-16	01/11/2013	75.89	----	30.63	----	45.26
TF-16	04/03/2013	75.89	----	30.47	----	45.42
TF-16	04/08/2013	75.89	----	30.25	----	45.64
TF-16	10/02/2013	75.89	----	31.16	----	44.73
TF-16	04/09/2014	75.89	----	31.68	----	44.21
TF-16	04/16/2014	75.89	----	32.42	----	43.47
TF-16	10/27/2014	75.89	31.58	32.92	1.34	NC
TF-16	04/20/2015	75.89	31.87	34.70	2.83	NC
TF-16	04/11/2016	75.89	33.41	36.15	2.74	NC
TF-16	10/3/2016	75.89	33.73	37.12	3.39	NC
TF-16	4/19/2017	75.89	33.26	33.53	0.27	NC
TF-16	9/27/2017	75.89	----	33.17	----	42.72
TF-17	11/20/1996	75.26	30.00	30.53	0.53	NC
TF-17	07/01/1997	75.26	30.10	30.20	0.10	NC
TF-17	12/31/1997	75.26	----	27.50	----	47.76
TF-17	05/01/1998	75.26	24.86	25.18	0.32	NC
TF-17	05/25/1999	75.26	25.40	28.24	2.84	NC

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
TF-17	05/15/2000	75.26	28.84	29.32	0.48	NC
TF-17	05/07/2001	75.26	-----	26.20	-----	49.06
TF-17	04/08/2002	74.88	27.01	27.04	0.03	NC
TF-17	09/19/2002	75.26	-----	28.68	-----	46.58
TF-17	10/21/2002	75.26	-----	27.40	-----	47.86
TF-17	04/22/2003	74.88	27.85	27.99	0.14	NC
TF-17	10/06/2003	74.88	-----	26.63	-----	48.25
TF-17	04/19/2004	75.26	27.32	28.83	1.51	NC
TF-17	11/01/2004	75.26	27.80	28.30	0.50	NC
TF-17	02/28/2005	75.26	22.62	23.33	0.71	NC
TF-17	05/02/2005	75.26	21.57	22.25	0.68	NC
TF-17	03/06/2006	75.26	23.42	23.98	0.56	NC
TF-17	05/01/2006	75.26	23.39	26.35	2.96	NC
TF-17	08/26/2006	75.26	24.08	26.52	2.44	NC
TF-17	12/01/2006	74.88	24.77	26.62	1.85	NC
TF-17	03/21/2007	75.26	24.67	25.02	0.35	NC
TF-17	04/30/2007	75.26	25.00	26.16	1.16	NC
TF-17	11/09/2007	74.88	25.35	26.01	0.66	NC
TF-17	02/05/2008	75.26	25.98	28.18	2.20	NC
TF-17	07/24/2008	75.26	26.15	27.29	1.14	NC
TF-17	10/13/2008	75.26	26.67	27.95	1.28	NC
TF-17	02/10/2009	75.26	26.05	27.66	1.61	NC
TF-17	07/17/2009	74.88	26.90	27.64	0.74	NC
TF-17	04/08/2010	74.88	26.76	26.78	0.02	NC
TF-17	10/01/2010	74.88	27.72	28.14	0.42	NC
TF-17	04/08/2011	74.88	-----	25.74	-----	49.14
TF-17	07/08/2011	74.88	-----	26.40	-----	48.48
TF-17	10/06/2011	74.88	-----	27.07	-----	47.81
TF-17	04/12/2012	74.88	-----	27.96	-----	46.92
TF-17	01/11/2013	74.88	-----	29.55	-----	45.33
TF-17	04/03/2013	74.88	-----	29.71	-----	45.17
TF-17	10/02/2013	74.88	-----	30.42	-----	44.46
TF-17	04/09/2014	74.88	-----	30.97	-----	43.91
TF-17	04/16/2014	74.88	-----	30.59	-----	44.29
TF-17	10/27/2014	74.88	-----	31.16	-----	43.72
TF-17	Well decommissioned in December 2014 prior to remedial excavation					
TF-18	05/25/1999	73.94	24.22	25.83	1.61	NC
TF-18	05/15/2000	73.94	25.13	26.22	1.09	NC
TF-18	05/07/2001	73.94	-----	25.30	-----	48.64
TF-18	04/08/2002	73.94	27.10	27.42	0.32	NC
TF-18	09/19/2002	73.94	25.80	26.89	1.09	NC
TF-18	10/21/2002	73.94	27.92	27.94	0.02	NC
TF-18	04/22/2003	73.94	-----	28.11	-----	45.83
TF-18	10/06/2003	73.94	25.09	25.28	0.19	NC

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
TF-18	04/19/2004	73.94	-----	26.00	-----	47.94
TF-18	11/01/2004	73.94	26.25	27.76	1.51	NC
TF-18	02/28/2005	73.94	-----	22.27	-----	51.67
TF-18	05/02/2005	73.94	20.45	20.67	0.22	NC
TF-18	03/06/2006	73.94	22.62	22.67	0.05	NC
TF-18	05/01/2006	73.94	22.57	22.59	0.02	NC
TF-18	08/26/2006	73.94	23.14	23.29	0.15	NC
TF-18	12/01/2006	73.94	-----	23.97	-----	49.97
TF-18	03/21/2007	73.94	23.91	24.02	0.11	NC
TF-18	04/30/2007	73.94	24.30	24.35	0.05	NC
TF-18	11/09/2007	73.94	-----	24.85	-----	49.09
TF-18	02/05/2008	73.94	-----	25.49	-----	48.45
TF-18	07/24/2008	73.94	-----	24.97	-----	48.97
TF-18	10/14/2008	73.94	-----	25.62	-----	48.32
TF-18	02/10/2009	73.94	-----	25.88	-----	48.06
TF-18	07/16/2009	73.94	-----	26.42	-----	47.52
TF-18	04/08/2010	73.94	25.70	25.73	0.03	NC
TF-18	10/01/2010	73.94	-----	26.35	-----	47.59
TF-18	01/08/2011	73.94	26.65	26.86	0.21	NC
TF-18	04/07/2011	73.94	24.95	25.11	0.16	NC
TF-18	07/08/2011	73.94	25.30	25.40	0.10	NC
TF-18	10/06/2011	73.94	25.95	25.97	0.02	NC
TF-18	04/12/2012	73.94	-----	27.30	-----	46.64
TF-18	01/10/2013	73.94	27.85	30.25	2.40	NC
TF-18	04/03/2013	73.94	28.04	28.80	0.76	NC
TF-18	10/02/2013	73.94	28.68	29.47	0.79	NC
TF-18	04/09/2014	73.94	29.37	30.90	1.53	NC
TF-18	04/16/2014	73.94	29.38	31.15	1.77	NC
TF-18	10/27/2014	73.94	29.48	30.91	1.43	NC
TF-18	04/20/2015	73.94	29.36	30.11	0.75	NC
TF-18	10/20/2015	73.94	30.41	33.06	2.65	NC
TF-18	04/11/2016	73.94	31.12	34.08	2.96	NC
TF-18	10/3/2016	73.94	31.61	34.35	2.74	NC
TF-18	4/20/2017	73.94	-----	30.92	-----	43.02
TF-18	9/27/2017	73.74	-----	33.12	-----	40.62
TF-19	11/20/1996	75.61	-----	29.06	-----	46.55
TF-19	07/01/1997	75.61	29.20	29.30	0.10	NC
TF-19	12/31/1997	75.61	-----	28.27	-----	47.34
TF-19	05/01/1998	75.61	-----	25.70	-----	49.91
TF-19	05/25/1999	75.61	-----	26.42	-----	49.19
TF-19	05/15/2000	75.61	32.33	32.90	0.57	NC
TF-19	05/07/2001	75.61	-----	28.61	-----	47.00
TF-19	04/08/2002	75.07	-----	26.40	-----	48.67
TF-19	09/19/2002	75.61	-----	27.90	-----	47.71

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
TF-19	10/21/2002	75.61	----	27.08	----	48.53
TF-19	04/22/2003	75.07	----	27.09	----	47.98
TF-19	10/06/2003	75.07	----	26.87	----	48.20
TF-19	04/19/2004	75.07	----	26.90	----	48.17
TF-19	11/01/2004	75.61	----	28.20	----	47.41
TF-19	02/28/2005	75.61	----	23.79	----	51.82
TF-19	05/02/2005	75.61	----	22.25	----	53.36
TF-19	03/06/2006	75.61	----	24.62	----	50.99
TF-19	05/01/2006	75.61	----	24.60	----	51.01
TF-19	08/26/2006	75.61	----	25.11	----	50.50
TF-19	12/01/2006	75.61	----	25.60	----	50.01
TF-19	03/21/2007	75.61	----	25.96	----	49.65
TF-19	04/30/2007	75.61	----	26.07	----	49.54
TF-19	08/28/2007	75.61	----	26.21	----	49.40
TF-19	11/12/2007	75.61	----	26.66	----	48.95
TF-19	02/05/2008	75.61	----	27.15	----	48.46
TF-19	04/14/2008	75.61	----	26.12	----	49.49
TF-19	07/24/2008	75.61	----	26.95	----	48.66
TF-19	10/14/2008	75.61	----	27.40	----	48.21
TF-19	02/10/2009	75.61	----	27.70	----	47.91
TF-19	07/16/2009	75.61	----	27.69	----	47.92
TF-19	04/08/2010	75.61	----	27.48	----	48.13
TF-19	10/01/2010	75.07	----	28.11	----	46.96
TF-19	01/08/2011	75.07	----	27.66	----	47.41
TF-19	04/07/2011	75.07	----	25.96	----	49.11
TF-19	07/08/2011	75.07	----	26.37	----	48.70
TF-19	10/06/2011	75.07	----	27.00	----	48.07
TF-19	04/12/2012	75.07	----	28.08	----	46.99
TF-19	01/10/2013	75.07	----	29.38	----	45.69
TF-19	04/03/2013	75.07	----	29.45	----	45.62
TF-19	10/02/2013	75.07	----	30.14	----	44.93
TF-19	04/09/2014	75.07	----	30.68	----	44.39
TF-19	04/16/2014	75.07	30.75	30.76	0.01	NC
TF-19	10/27/2014	75.07	30.72	31.46	0.74	NC
TF-19	04/20/2015	75.07	30.77	33.03	2.26	NC
TF-19	10/20/2015	75.07	32.45	32.46	0.01	NC
TF-19	04/11/2016	75.07	----	33.03	----	42.04
TF-19	10/3/2016	75.07	----	32.92	----	42.15
TF-19	4/20/2017	75.07	----	31.60	----	43.47
TF-19	10/3/2017	75.07	----	32.73	----	42.34
TF-20	11/20/1996	75.59	----	29.02	----	46.57
TF-20	07/01/1997	75.59	----	29.40	----	46.19
TF-20	12/31/1997	75.59	----	28.49	----	47.10
TF-20	05/01/1998	75.59	----	25.93	----	49.66

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Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
TF-20	05/25/1999	75.59	----	26.74	----	48.85
TF-20	05/15/2000	75.59	----	31.44	----	44.15
TF-20	05/07/2001	75.59	----	27.96	----	47.63
TF-20	04/08/2002	75.08	----	31.40	----	43.68
TF-20	09/19/2002	75.59	----	28.52	----	47.07
TF-20	10/21/2002	75.59	----	31.29	----	44.30
TF-20	04/22/2003	75.08	----	31.28	----	43.80
TF-20	10/06/2003	75.08	----	27.60	----	47.48
TF-20	04/19/2004	75.08	----	27.78	----	47.30
TF-20	11/01/2004	75.59	----	28.88	----	46.71
TF-20	02/28/2005	75.59	----	24.92	----	50.67
TF-20	05/02/2005	75.59	----	22.54	----	53.05
TF-20	03/06/2006	75.59	24.34	24.48	0.14	NC
TF-20	05/01/2006	75.59	24.67	27.70	3.03	NC
TF-20	08/26/2006	75.59	25.05	28.68	3.63	NC
TF-20	12/01/2006	75.59	25.48	29.67	4.19	NC
TF-20	03/21/2007	75.59	25.42	25.49	0.07	NC
TF-20	04/30/2007	75.59	----	25.84	----	49.75
TF-20	11/09/2007	75.59	26.45	29.02	2.57	NC
TF-20	02/05/2008	75.08	27.47	28.65	1.18	NC
TF-20	07/24/2008	75.08	----	27.51	----	47.57
TF-20	10/13/2008	75.08	----	28.28	----	46.80
TF-20	02/10/2009	75.08	27.24	27.85	0.61	NC
TF-20	07/17/2009	75.08	----	28.02	----	47.06
TF-20	04/08/2010	75.08	----	27.59	----	47.49
TF-20	10/01/2010	75.08	----	28.47	----	46.61
TF-20	01/08/2011	75.08	----	28.73	----	46.35
TF-20	04/08/2011	75.08	----	26.90	----	48.18
TF-20	07/08/2011	75.08	----	27.45	----	47.63
TF-20	10/06/2011	75.08	----	28.05	----	47.03
TF-20	04/12/2012	75.08	----	28.88	----	46.20
TF-20	01/11/2013	75.08	30.38	30.43	0.05	NC
TF-20	04/03/2013	75.08	30.30	30.32	0.02	NC
TF-20	10/02/2013	75.08	30.93	30.95	0.02	NC
TF-20	04/09/2014	75.08	----	31.47	----	43.61
TF-20	04/16/2014	75.08	31.32	31.35	0.03	NC
TF-20	10/27/2014	75.08	31.76	31.79	0.03	NC
TF-20	Well decommissioned in December 2014 prior to remedial excavation					
TF-20R	10/3/2017	75.26	----	33.41	----	41.85
TF-21	11/20/1996	75.60	29.83	29.91	0.08	NC
TF-21	07/01/1997	75.60	30.80	31.10	0.30	NC
TF-21	12/31/1997	75.60	----	28.35	----	47.25
TF-21	05/01/1998	75.60	----	25.56	----	50.04
TF-21	05/25/1999	75.60	26.49	26.58	0.09	NC

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
TF-21	05/15/2000	75.60	28.68	29.04	0.36	NC
TF-21	05/07/2001	75.60	----	29.81	----	45.79
TF-21	04/08/2002	74.96	----	28.50	----	46.46
TF-21	09/19/2002	75.60	----	28.63	----	46.97
TF-21	10/21/2002	75.60	----	30.16	----	45.44
TF-21	04/22/2003	74.96	----	27.62	----	47.34
TF-21	10/06/2003	74.96	----	26.55	----	48.41
TF-21	04/19/2004	74.96	----	27.28	----	47.68
TF-21	11/01/2004	75.60	----	27.88	----	47.72
TF-21	02/28/2005	75.60	----	23.76	----	51.84
TF-21	05/02/2005	75.60	----	22.00	----	53.60
TF-21	03/06/2006	75.60	----	24.06	----	51.54
TF-21	05/01/2006	75.60	----	24.09	----	51.51
TF-21	08/26/2006	75.60	----	24.76	----	50.84
TF-21	12/01/2006	75.60	----	25.22	----	50.38
TF-21	03/21/2007	75.60	----	25.51	----	50.09
TF-21	04/30/2007	75.60	----	25.72	----	49.88
TF-21	08/28/2007	75.60	----	26.17	----	49.43
TF-21	11/12/2007	74.76	----	26.35	----	48.41
TF-21	02/05/2008	75.60	----	27.25	----	48.35
TF-21	04/14/2008	75.60	----	25.93	----	49.67
TF-21	07/24/2008	74.96	----	26.51	----	48.45
TF-21	10/13/2008	74.96	----	27.10	----	47.86
TF-21	02/10/2009	75.60	----	26.72	----	48.88
TF-21	04/20/2009	74.96	----	21.85	----	53.11
TF-21	07/17/2009	75.60	----	27.31	----	48.29
TF-21	10/19/2009	74.96	----	29.84	----	45.12
TF-21	04/08/2010	75.60	----	27.30	----	48.30
TF-21	04/12/2010	74.96	----	27.00	----	47.96
TF-21	01/08/2011	74.96	----	27.89	----	47.07
TF-21	04/08/2011	74.96	----	26.09	----	48.87
TF-21	07/08/2011	74.96	----	26.59	----	48.37
TF-21	10/06/2011	74.96	----	27.23	----	47.73
TF-21	04/12/2012	74.96	----	28.16	----	46.80
TF-21	04/20/2012	74.96	----	28.14	----	46.82
TF-21	01/11/2013	74.96	----	29.63	----	45.33
TF-21	04/03/2013	74.96	----	29.43	----	45.53
TF-21	04/08/2013	74.96	----	29.90	----	45.06
TF-21	10/02/2013	74.96	----	30.15	----	44.81
TF-21	04/09/2014	74.96	----	30.68	----	44.28
TF-21	04/16/2014	74.96	----	30.66	----	44.30
TF-21	10/27/2014	74.96	----	30.92	----	44.04
TF-21	04/20/2015	74.96	----	31.26	----	43.70
TF-21	10/3/2016	ns	----	36.31	----	NC

APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
TF-21	4/19/2017	74.96	----	35.32	----	39.64
TF-21	10/3/2017	77.91	----	36.13	----	41.78
TF-22	11/20/1996	74.95	30.56	31.98	1.42	NC
TF-22	07/01/1997	74.95	30.70	31.00	0.30	NC
TF-22	12/31/1997	74.95	28.01	28.90	0.89	NC
TF-22	05/01/1998	74.95	23.57	25.24	1.67	NC
TF-22	05/25/1999	74.95	26.02	26.44	0.42	NC
TF-22	05/15/2000	74.95	32.65	32.96	0.31	NC
TF-22	05/07/2001	74.95	32.70	33.01	0.31	NC
TF-22	04/08/2002	74.76	32.80	32.98	0.18	NC
TF-22	09/19/2002	74.95	----	27.63	----	47.32
TF-22	10/21/2002	74.95	31.42	32.60	1.18	NC
TF-22	04/22/2003	74.76	----	27.60	----	47.16
TF-22	10/06/2003	74.76	----	26.37	----	48.39
TF-22	04/19/2004	74.95	27.30	27.32	0.02	NC
TF-22	11/01/2004	74.95	----	27.52	----	47.43
TF-22	02/28/2005	74.95	----	23.49	----	51.46
TF-22	05/02/2005	74.95	----	21.88	----	53.07
TF-22	03/06/2006	74.95	----	23.98	----	50.97
TF-22	05/01/2006	74.95	----	23.99	----	50.96
TF-22	08/26/2006	74.95	----	24.42	----	50.53
TF-22	12/01/2006	74.95	----	24.97	----	49.98
TF-22	03/21/2007	74.95	----	25.24	----	49.71
TF-22	04/30/2007	74.95	25.50	25.51	0.01	NC
TF-22	08/28/2007	74.95	----	26.07	----	48.88
TF-22	11/12/2007	74.95	----	26.03	----	48.92
TF-22	02/05/2008	74.95	----	26.87	----	48.08
TF-22	04/14/2008	74.95	----	25.59	----	49.36
TF-22	07/24/2008	74.95	----	26.40	----	48.55
TF-22	10/13/2008	74.95	----	27.06	----	47.89
TF-22	02/10/2009	74.95	----	26.32	----	48.63
TF-22	07/17/2009	74.95	----	27.61	----	47.34
TF-22	04/08/2010	74.95	----	28.24	----	46.71
TF-22	10/01/2010	74.76	----	27.58	----	47.18
TF-22	04/08/2011	74.76	----	25.92	----	48.84
TF-22	07/08/2011	74.76	----	26.30	----	48.46
TF-22	10/06/2011	74.76	----	26.95	----	47.81
TF-22	04/12/2012	74.76	----	27.90	----	46.86
TF-22	01/11/2013	74.76	----	29.35	----	45.41
TF-22	04/03/2013	74.76	----	29.15	----	45.61
TF-23	05/25/1999	75.31	----	26.12	----	49.19
TF-23	05/15/2000	75.31	27.35	27.38	0.03	NC
TF-23	05/07/2001	75.31	----	27.30	----	48.01
TF-23	04/08/2002	75.31	----	28.74	----	46.57

APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
TF-23	09/19/2002	75.31	----	27.55	----	47.76
TF-23	10/21/2002	75.31	31.24	31.44	0.20	NC
TF-23	10/06/2003	75.31	----	26.52	----	48.79
TF-23	04/19/2004	75.31	----	27.51	----	47.80
TF-23	11/01/2004	75.31	----	27.60	----	47.71
TF-23	02/28/2005	75.31	----	23.89	----	51.42
TF-23	05/02/2005	75.31	----	22.32	----	52.99
TF-23	03/06/2006	75.31	----	24.21	----	51.10
TF-23	05/01/2006	75.31	----	24.31	----	51.00
TF-23	03/21/2007	75.31	----	25.51	----	49.80
TF-23	04/30/2007	75.31	----	25.67	----	49.64
TF-23	11/12/2007	75.31	----	26.20	----	49.11
TF-23	02/05/2008	75.31	----	26.75	----	48.56
TF-23	04/14/2008	75.31	----	25.81	----	49.50
TF-23	07/24/2008	75.31	----	26.45	----	48.86
TF-23	10/13/2008	75.31	----	27.15	----	48.16
TF-23	02/10/2009	75.31	----	26.46	----	48.85
TF-23	07/17/2009	75.31	----	26.93	----	48.38
TF-23	04/08/2010	75.31	----	27.20	----	48.11
TF-23	10/01/2010	75.31	----	27.67	----	47.64
TF-23	01/08/2011	75.31	----	27.88	----	47.43
TF-23	04/08/2011	75.31	----	26.43	----	48.88
TF-23	07/08/2011	75.31	----	26.76	----	48.55
TF-23	10/06/2011	75.31	----	27.34	----	47.97
TF-23	04/12/2012	75.31	28.38	28.41	0.03	NC
TF-23	01/11/2013	75.31	----	29.67	----	45.64
TF-23	04/03/2013	75.31	29.60	29.70	0.10	NC
TF-23	10/02/2013	75.31	30.34	30.56	0.22	NC
TF-23	04/09/2014	75.31	30.92	31.16	0.24	NC
TF-23	04/16/2014	75.31	30.90	31.08	0.18	NC
TF-23	10/27/2014	75.31	31.15	31.16	0.01	NC
TF-23	04/20/2015	75.31	31.51	31.54	0.03	NC
TF-23	04/11/2016	75.31	32.84	33.11	0.27	NC
TF-23	10/3/2016	75.31	33.25	33.64	0.39	NC
TF-23	4/20/2017	75.31	----	32.50	----	42.81
TF-23	10/3/2017	75.31	Could not find well; Well not gauged			
TF-24	12/31/1997	76.36	----	30.05	----	46.31
TF-24	05/01/1998	76.36	----	27.19	----	49.17
TF-24	05/25/1999	72.43	27.10	29.04	1.94	NC
TF-24	05/15/2000	76.36	27.82	29.42	1.60	NC
TF-24	04/08/2002	76.43	----	29.19	----	47.24
TF-24	10/21/2002	76.35	----	28.12	----	48.23
TF-24	04/22/2003	76.35	27.95	28.65	0.70	NC
TF-24	11/01/2004	76.43	----	29.40	----	47.03

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
TF-24	02/28/2005	76.43	----	24.77	----	51.66
TF-24	05/02/2005	76.43	----	24.78	----	51.65
TF-24	03/06/2006	76.43	24.92	25.86	0.94	NC
TF-24	05/01/2006	76.43	----	26.21	----	50.22
TF-24	08/26/2006	76.43	----	26.59	----	49.84
TF-24	03/21/2007	76.43	25.88	26.52	0.64	NC
TF-24	11/12/2007	76.43	----	28.03	----	48.40
TF-24	04/11/2008	76.43	----	27.80	----	48.63
TF-24	07/24/2008	76.43	----	28.10	----	48.33
TF-24	10/13/2008	76.43	----	28.90	----	47.53
TF-24	02/09/2009	76.43	----	29.90	----	46.53
TF-24	07/16/2009	76.43	----	29.11	----	47.32
TF-24	04/07/2010	76.43	----	29.20	----	47.23
TF-24	10/01/2010	76.43	----	29.45	----	46.98
TF-24	01/08/2011	76.43	----	29.45	----	46.98
TF-24	04/08/2011	76.43	----	28.23	----	48.20
TF-24	07/07/2011	76.43	----	28.47	----	47.96
TF-24	10/07/2011	76.43	----	28.98	----	47.45
TF-24	04/12/2012	76.43	----	29.98	----	46.45
TF-24	01/10/2013	76.43	----	31.13	----	45.30
TF-24	04/02/2013	76.43	----	31.11	----	45.32
TF-24	10/01/2013	76.43	----	31.84	----	44.59
TF-24	04/07/2014	76.43	----	32.62	----	43.81
TF-24	04/17/2014	76.43	----	32.35	----	44.08
TF-24	10/27/2014	76.43	----	32.90	----	43.53
TF-24	04/20/2015	76.43	----	33.21	----	43.22
TF-24	10/3/2016	76.43	----	34.85	----	41.58
TF-24	4/19/2017	76.43	----	34.15	----	42.28
TF-24	10/2/2017	76.43	----	36.20	----	40.23
TF-25	05/07/2001	74.85	----	26.56	----	48.29
TF-25	04/08/2002	74.85	----	28.55	----	46.30
TF-25	09/19/2002	74.85	----	28.70	----	46.15
TF-25	10/21/2002	74.85	----	27.82	----	47.03
TF-25	04/22/2003	74.85	----	29.61	----	45.24
TF-25	10/06/2003	74.85	----	27.54	----	47.31
TF-25	04/19/2004	74.85	----	28.96	----	45.89
TF-25	11/01/2004	74.85	----	28.15	----	46.70
TF-25	02/28/2005	74.85	----	24.44	----	50.41
TF-25	05/02/2005	74.85	----	23.72	----	51.13
TF-25	03/06/2006	74.85	----	24.81	----	50.04
TF-25	05/01/2006	74.85	----	25.10	----	49.75
TF-25	08/26/2006	74.85	----	25.48	----	49.37
TF-25	12/01/2006	74.85	----	25.79	----	49.06
TF-25	03/21/2007	74.85	----	26.00	----	48.85

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
TF-25	04/30/2007	74.85	----	26.34	----	48.51
TF-25	08/28/2007	74.85	----	26.89	----	47.96
TF-25	11/12/2007	74.85	----	26.13	----	48.72
TF-25	02/05/2008	74.85	----	27.71	----	47.14
TF-25	04/11/2008	74.85	----	26.61	----	48.24
TF-25	07/24/2008	74.85	----	26.95	----	47.90
TF-25	10/14/2008	74.85	----	27.62	----	47.23
TF-25	02/10/2009	74.85	----	27.62	----	47.23
TF-25	07/16/2009	74.85	----	28.88	----	45.97
TF-25	04/08/2010	74.85	----	27.95	----	46.90
TF-25	10/01/2010	74.85	----	27.63	----	47.22
TF-25	01/08/2011	74.85	----	27.63	----	47.22
TF-25	04/08/2011	74.85	----	26.40	----	48.45
TF-25	07/08/2011	74.85	----	26.63	----	48.22
TF-25	10/07/2011	74.85	----	27.27	----	47.58
TF-25	04/12/2012	74.85	----	28.29	----	46.56
TF-25	01/11/2013	74.85	----	29.65	----	45.20
TF-25	04/03/2013	74.85	----	29.49	----	45.36
TF-25	04/09/2014	74.85	----	30.98	----	43.87
TF-26	05/07/2001	75.85	----	27.83	----	48.02
TF-26	04/08/2002	75.85	----	29.12	----	46.73
TF-26	09/19/2002	75.85	----	29.52	----	46.33
TF-26	10/21/2002	75.85	----	28.82	----	47.03
TF-26	04/22/2003	75.85	----	28.60	----	47.25
TF-26	10/06/2003	75.85	----	28.42	----	47.43
TF-26	04/19/2004	75.85	----	29.71	----	46.14
TF-26	11/01/2004	75.85	----	29.18	----	46.67
TF-26	02/28/2005	75.85	----	25.38	----	50.47
TF-26	05/02/2005	75.85	----	24.62	----	51.23
TF-26	03/06/2006	75.85	----	25.62	----	50.23
TF-26	05/01/2006	75.85	----	26.04	----	49.81
TF-26	08/26/2006	75.85	----	26.40	----	49.45
TF-26	12/01/2006	75.85	----	26.78	----	49.07
TF-26	03/21/2007	75.85	----	26.84	----	49.01
TF-26	04/27/2007	75.85	----	27.18	----	48.67
TF-26	08/28/2007	75.85	----	27.06	----	48.79
TF-26	11/12/2007	75.85	----	27.80	----	48.05
TF-26	02/05/2008	75.85	----	28.11	----	47.74
TF-26	04/11/2008	75.85	----	27.59	----	48.26
TF-26	07/24/2008	75.85	----	28.01	----	47.84
TF-26	10/13/2008	75.85	----	28.59	----	47.26
TF-26	02/09/2009	75.85	----	27.91	----	47.94
TF-26	07/17/2009	75.85	----	28.87	----	46.98
TF-26	04/07/2010	75.85	----	28.11	----	47.74

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
TF-26	10/01/2010	75.85	----	28.41	----	47.44
TF-26	04/08/2011	75.85	----	27.20	----	48.65
TF-26	07/07/2011	75.85	----	27.50	----	48.35
TF-26	10/06/2011	75.85	----	22.97	----	52.88
TF-26	04/12/2012	75.85	----	29.04	----	46.81
TF-26	01/10/2013	75.85	----	30.21	----	45.64
TF-26	04/02/2013	75.85	30.55	31.39	0.84	NC
TF-26	04/09/2014	75.85	31.48	32.58	1.10	NC
VEW-1	10/19/2015	NS	----	DRY (to 29.02)	----	NC
VEW-1	04/11/2016	NS	----	DRY	----	NC
VEW-1	10/3/2016	NS	----	DRY (to 12.35)	----	NC
VEW-1	4/17/2017	NS	----	DRY	----	NC
VEW-1	10/2/2017	NS	----	DRY (to 12.44)	----	----
VEW-2	10/19/2015	NS	----	DRY (to 29.71)	----	NC
VEW-2	04/11/2016	NS	----	DRY	----	NC
VEW-2	10/3/2016	NS	----	DRY (to 29.70)	----	NC
VEW-2	4/17/2017	NS	----	DRY	----	NC
VEW-2	10/2/2017	NS	----	DRY (to 26.60)	----	----
VE-1	04/07/2003	77.70	----	29.55	----	48.15
VE-1	10/06/2003	77.70	----	29.39	----	48.31
VE-1	04/19/2004	77.70	----	30.17	----	47.53
VE-1	11/01/2004	77.70	----	30.05	----	47.65
VE-1	05/01/2006	77.70	----	26.58	----	51.12
VE-1	04/11/2008	77.70	----	28.68	----	49.02
VE-1	10/13/2008	77.70	----	29.78	----	47.92
VE-1	04/08/2010	77.70	----	30.02	----	47.68
VE-2	04/07/2003	77.26	----	28.95	----	48.31
VE-2	10/06/2003	77.26	----	28.89	----	48.37
VE-2	04/19/2004	77.26	----	30.02	----	47.24
VE-2	11/01/2004	77.26	----	29.69	----	47.57
VE-2	05/01/2006	77.26	----	25.93	----	51.33
VE-2	04/11/2008	77.26	----	28.25	----	49.01
VE-2	10/13/2008	77.26	----	29.33	----	47.93
VE-2	04/07/2010	77.26	----	30.36	----	46.90
VS-01	10/06/2003	----	----	26.30	----	NC
VS-01	04/19/2004	----	----	26.88	----	NC
VS-01	05/01/2006	----	----	24.01	----	NC
VS-01	05/01/2006	----	----	23.95	----	NC
VS-01	12/01/2006	----	----	24.92	----	NC
VS-01	12/01/2006	----	----	24.81	----	NC
VS-01	11/12/2007	----	----	24.92	----	NC
VS-01	11/12/2007	----	----	24.81	----	NC
VS-01	04/14/2008	----	----	25.48	----	NC
VS-01	04/14/2008	----	----	25.18	----	NC

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
VS-01	10/14/2008	----	----	26.87	----	NC
VS-01	10/14/2008	----	----	26.69	----	NC
VS-02	10/06/2003	----	----	25.63	----	NC
VS-02	04/19/2004	----	----	25.08	----	NC
VS-02	04/27/2007	----	----	25.50	----	NC
VS-03	10/06/2003	----	----	27.04	----	NC
VS-03	04/19/2004	----	----	28.25	----	NC
VS-03	05/01/2006	----	----	24.36	----	NC
VS-03	05/01/2006	----	----	24.21	----	NC
VS-03	12/01/2006	----	----	25.21	----	NC
VS-03	12/01/2006	----	----	25.18	----	NC
VS-03	04/27/2007	----	----	25.51	----	NC
VS-03	04/30/2007	----	----	25.51	----	NC
VS-03	11/12/2007	----	----	26.33	----	NC
VS-03	11/12/2007	----	----	26.01	----	NC
VS-03	04/11/2008	----	----	25.90	----	NC
VS-03	04/11/2008	----	----	25.56	----	NC
VS-03	10/14/2008	----	----	26.85	----	NC
VS-03	10/14/2008	----	----	26.60	----	NC
VS-03	04/08/2010	----	----	27.10	----	NC
VS-03	04/08/2010	----	----	26.48	----	NC
WCW-1	05/28/1996	72.86	----	25.95	----	46.91
WCW-1	11/20/1996	72.86	----	26.13	----	46.73
WCW-1	07/01/1997	72.86	----	26.77	----	46.09
WCW-1	12/31/1997	72.86	----	26.09	----	46.77
WCW-1	05/01/1998	72.86	----	24.21	----	48.65
WCW-1	02/02/1999	72.86	----	23.24	----	49.62
WCW-1	05/04/1999	72.86	----	23.78	----	49.08
WCW-1	08/09/1999	72.86	----	24.15	----	48.71
WCW-1	11/15/1999	72.86	----	24.27	----	48.59
WCW-1	02/28/2000	72.86	----	24.31	----	48.55
WCW-1	05/15/2000	72.86	----	27.79	----	45.07
WCW-1	08/28/2000	72.86	----	24.68	----	48.18
WCW-1	11/13/2000	72.86	----	24.66	----	48.20
WCW-1	02/05/2001	72.86	----	24.60	----	48.26
WCW-1	05/07/2001	72.86	----	23.99	----	48.87
WCW-1	09/18/2001	72.86	----	23.68	----	49.18
WCW-1	01/29/2002	72.86	----	23.85	----	49.01
WCW-1	04/08/2002	72.86	----	24.13	----	48.73
WCW-1	10/21/2002	72.86	----	24.65	----	48.21
WCW-1	04/07/2003	72.86	----	24.65	----	48.21
WCW-1	10/06/2003	72.86	----	24.49	----	48.37
WCW-1	04/19/2004	72.86	----	24.98	----	47.88
WCW-1	05/10/2004	72.86	----	24.93	----	47.93

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
WCW-1	11/01/2004	72.86	----	25.26	----	47.60
WCW-1	05/02/2005	72.86	----	22.57	----	50.29
WCW-1	05/01/2006	72.86	----	22.13	----	50.73
WCW-1	12/01/2006	72.86	----	22.91	----	49.95
WCW-1	04/30/2007	72.86	----	22.20	----	50.66
WCW-1	11/12/2007	72.86	----	23.52	----	49.34
WCW-1	04/14/2008	72.86	----	23.57	----	49.29
WCW-1	10/14/2008	72.86	----	24.19	----	48.67
WCW-1	04/20/2009	72.86	----	24.26	----	48.60
WCW-1	01/12/2010	72.86	----	25.91	----	46.95
WCW-1	05/24/2010	72.86	----	25.10	----	47.76
WCW-1	05/28/2010	72.86	----	25.05	----	47.81
WCW-1	10/01/2010	72.86	----	25.29	----	47.57
WCW-1	04/08/2011	72.86	----	24.82	----	48.04
WCW-1	04/11/2011	72.86	----	24.73	----	48.13
WCW-1	07/07/2011	72.86	----	24.40	----	48.46
WCW-1	10/06/2011	72.86	----	24.57	----	48.29
WCW-1	04/16/2012	72.86	----	25.23	----	47.63
WCW-1	04/08/2013	72.86	----	26.83	----	46.03
WCW-1	10/07/2013	72.86	----	27.63	----	45.23
WCW-1	04/14/2014	72.86	----	27.73	----	45.13
WCW-1	10/27/2014	72.86	----	28.53	----	44.33
WCW-1	04/20/2015	72.86	----	29.08	----	43.78
WCW-1	10/19/2015	72.86	----	29.90	----	42.96
WCW-1	04/11/2016	72.86	----	30.70	----	42.16
WCW-1	10/3/2016	72.86	----	31.50	----	41.36
WCW-1	4/17/2017	72.86	----	31.00	----	41.86
WCW-1	10/2/2017	72.86	----	31.74	----	41.12
WCW-2	05/28/1996	75.34	----	35.28	----	40.06
WCW-2	11/20/1996	75.34	----	29.34	----	46.00
WCW-2	07/01/1997	75.34	----	29.82	----	45.52
WCW-2	12/31/1997	75.34	----	29.45	----	45.89
WCW-2	05/01/1998	75.34	----	26.80	----	48.54
WCW-2	02/02/1999	75.34	----	26.40	----	48.94
WCW-2	05/03/1999	75.34	----	26.94	----	48.40
WCW-2	08/09/1999	75.34	----	27.21	----	48.13
WCW-2	11/15/1999	75.34	----	27.47	----	47.87
WCW-2	02/28/2000	75.34	----	27.44	----	47.90
WCW-2	05/15/2000	75.34	----	27.42	----	47.92
WCW-2	08/28/2000	75.34	----	27.63	----	47.71
WCW-2	11/13/2000	75.34	----	28.87	----	46.47
WCW-2	02/05/2001	75.34	----	27.62	----	47.72
WCW-2	05/07/2001	75.34	----	27.06	----	48.28
WCW-2	09/18/2001	75.34	----	26.64	----	48.70

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
WCW-2	01/29/2002	75.34	----	26.76	----	48.58
WCW-2	04/08/2002	75.34	----	27.10	----	48.24
WCW-2	10/21/2002	75.34	----	27.47	----	47.87
WCW-2	04/07/2003	75.34	----	27.47	----	47.87
WCW-2	10/06/2003	75.34	----	27.40	----	47.94
WCW-2	04/19/2004	75.34	----	25.80	----	49.54
WCW-2	05/10/2004	75.34	----	27.80	----	47.54
WCW-2	11/01/2004	75.34	----	28.04	----	47.30
WCW-2	05/02/2005	75.34	----	25.69	----	49.65
WCW-2	05/01/2006	75.34	----	24.90	----	50.44
WCW-2	12/01/2006	75.34	----	25.52	----	49.82
WCW-2	04/30/2007	75.34	----	25.49	----	49.85
WCW-2	11/12/2007	75.34	----	26.15	----	49.19
WCW-2	04/14/2008	75.34	----	26.15	----	49.19
WCW-2	10/14/2008	75.34	----	26.88	----	48.46
WCW-2	04/20/2009	75.34	----	27.31	----	48.03
WCW-2	10/19/2009	75.34	----	27.90	----	47.44
WCW-2	01/12/2010	75.34	----	28.11	----	47.23
WCW-2	05/24/2010	75.34	----	28.00	----	47.34
WCW-2	05/28/2010	75.34	----	27.95	----	47.39
WCW-2	01/08/2011	75.34	----	28.36	----	46.98
WCW-2	04/11/2011	75.34	----	27.67	----	47.67
WCW-2	04/12/2011	75.34	----	27.74	----	47.60
WCW-2	07/07/2011	75.34	----	27.40	----	47.94
WCW-2	10/06/2011	75.34	----	27.54	----	47.80
WCW-2	04/16/2012	75.34	----	28.13	----	47.21
WCW-2	04/08/2013	75.34	----	29.11	----	46.23
WCW-2	10/07/2013	75.34	----	30.25	----	45.09
WCW-2	04/14/2014	75.34	----	31.71	----	43.63
WCW-2	10/27/2014	75.34	----	31.42	----	43.92
WCW-2	04/20/2015	75.34	----	32.84	----	42.50
WCW-2	10/19/2015	75.34	----	32.52	----	42.82
WCW-2	04/11/2016	75.34	----	33.05	----	42.29
WCW-2	10/3/2016	75.34	----	33.60	----	41.74
WCW-2	4/17/2017	75.34	----	33.62	----	41.72
WCW-2	10/2/2017	75.34	----	33.94	----	41.40
WCW-3	05/28/1996	76.16	----	30.40	----	45.76
WCW-3	11/20/1996	76.16	----	30.48	----	45.68
WCW-3	07/01/1997	76.16	----	31.00	----	45.16
WCW-3	12/31/1997	76.16	----	30.61	----	45.55
WCW-3	05/01/1998	76.16	----	29.00	----	47.16
WCW-3	02/02/1999	76.16	----	27.82	----	48.34
WCW-3	05/03/1999	76.16	----	28.33	----	47.83
WCW-3	08/09/1999	76.16	----	28.56	----	47.60

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
WCW-3	11/15/1999	76.16	----	28.83	----	47.33
WCW-3	02/28/2000	76.16	----	28.58	----	47.58
WCW-3	05/15/2000	76.16	----	28.56	----	47.60
WCW-3	08/28/2000	76.16	----	28.72	----	47.44
WCW-3	11/13/2000	76.16	----	28.16	----	48.00
WCW-3	02/05/2001	76.16	----	28.70	----	47.46
WCW-3	05/07/2001	76.16	----	28.15	----	48.01
WCW-3	09/18/2001	76.16	----	27.78	----	48.38
WCW-3	01/29/2002	76.16	----	27.99	----	48.17
WCW-3	04/08/2002	76.16	----	28.25	----	47.91
WCW-3	07/29/2002	76.16	----	28.41	----	47.75
WCW-3	10/21/2002	76.16	----	28.50	----	47.66
WCW-3	01/27/2003	76.16	----	28.47	----	47.69
WCW-3	04/07/2003	76.16	----	28.49	----	47.67
WCW-3	07/30/2003	76.16	----	28.29	----	47.87
WCW-3	10/06/2003	76.16	----	28.44	----	47.72
WCW-3	01/27/2004	76.16	----	28.58	----	47.58
WCW-3	05/10/2004	76.16	----	28.34	----	47.82
WCW-3	07/19/2004	76.16	----	28.18	----	47.98
WCW-3	11/01/2004	76.16	----	29.04	----	47.12
WCW-3	02/01/2005	76.16	----	28.54	----	47.62
WCW-3	05/02/2005	76.16	----	26.58	----	49.58
WCW-3	02/27/2006	76.16	----	25.75	----	50.41
WCW-3	05/01/2006	76.16	----	25.95	----	50.21
WCW-3	09/18/2006	76.16	----	26.11	----	50.05
WCW-3	12/01/2006	76.16	----	26.56	----	49.60
WCW-3	03/12/2007	76.16	----	26.52	----	49.64
WCW-3	04/30/2007	76.16	----	26.45	----	49.71
WCW-3	08/28/2007	76.16	----	27.43	----	48.73
WCW-3	11/12/2007	76.16	----	27.21	----	48.95
WCW-3	02/19/2008	76.16	----	27.21	----	48.95
WCW-3	04/14/2008	76.16	----	27.14	----	49.02
WCW-3	08/11/2008	76.16	----	27.59	----	48.57
WCW-3	10/14/2008	76.16	----	27.99	----	48.17
WCW-3	04/20/2009	76.16	----	28.19	----	47.97
WCW-3	07/20/2009	76.16	----	28.48	----	47.68
WCW-3	10/19/2009	76.16	----	28.84	----	47.32
WCW-3	01/12/2010	76.16	----	30.40	----	45.76
WCW-3	03/15/2010	76.16	----	29.44	----	46.72
WCW-3	05/24/2010	76.16	----	29.30	----	46.86
WCW-3	05/28/2010	76.16	----	29.21	----	46.95
WCW-3	10/04/2010	76.16	----	29.26	----	46.90
WCW-3	01/08/2011	76.16	----	29.58	----	46.58
WCW-3	01/10/2011	76.16	----	29.50	----	46.66

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
WCW-3	04/11/2011	76.16	----	28.84	----	47.32
WCW-3	04/12/2011	76.16	----	28.95	----	47.21
WCW-3	07/07/2011	76.16	----	28.75	----	47.41
WCW-3	07/11/2011	76.16	----	28.57	----	47.59
WCW-3	10/10/2011	76.16	----	28.64	----	47.52
WCW-3	01/09/2012	76.16	----	29.00	----	47.16
WCW-3	04/16/2012	76.16	----	29.35	----	46.81
WCW-3	07/09/2012	76.16	----	29.64	----	46.52
WCW-3	10/15/2012	76.16	----	29.98	----	46.18
WCW-3	01/14/2013	76.16	----	30.32	----	45.84
WCW-3	04/08/2013	76.16	----	30.24	----	45.92
WCW-3	10/07/2013	76.16	----	31.00	----	45.16
WCW-3	04/14/2014	76.16	----	31.81	----	44.35
WCW-3	10/27/2014	76.16	----	32.39	----	43.77
WCW-3	04/20/2015	76.16	----	32.40	----	43.76
WCW-3	10/19/2015	76.16	----	33.38	----	42.78
WCW-3	04/11/2016	76.16	----	33.83	----	42.33
WCW-3	10/3/2016	76.16	----	34.35	----	41.81
WCW-3	4/17/2017	76.16	----	34.70	----	41.46
WCW-3	10/2/2017	76.16	----	34.79	----	41.37
WCW-4	05/28/1996	78.05	----	32.63	----	45.42
WCW-4	11/20/1996	78.05	----	32.61	----	45.44
WCW-4	07/01/1997	78.05	----	32.95	----	45.10
WCW-4	12/31/1997	78.05	----	32.63	----	45.42
WCW-4	05/01/1998	78.05	----	31.10	----	46.95
WCW-4	05/03/1999	78.05	----	30.25	----	47.80
WCW-4	08/09/1999	78.05	----	30.45	----	47.60
WCW-4	11/15/1999	78.05	----	30.85	----	47.20
WCW-4	05/15/2000	78.05	----	34.00	----	44.05
WCW-4	11/13/2000	78.05	----	30.69	----	47.36
WCW-4	05/07/2001	78.05	----	31.16	----	46.89
WCW-4	04/08/2002	78.05	----	30.25	----	47.80
WCW-4	10/21/2002	78.05	----	30.46	----	47.59
WCW-4	04/07/2003	78.05	----	30.38	----	47.67
WCW-4	10/06/2003	78.05	----	30.31	----	47.74
WCW-4	05/10/2004	78.05	----	30.61	----	47.44
WCW-4	11/01/2004	78.05	----	30.98	----	47.07
WCW-4	05/02/2005	78.05	----	28.52	----	49.53
WCW-4	08/01/2005	78.05	----	27.84	----	50.21
WCW-4	05/01/2006	78.05	----	27.90	----	50.15
WCW-4	12/01/2006	78.05	----	28.54	----	49.51
WCW-4	04/30/2007	78.05	----	28.50	----	49.55
WCW-4	11/12/2007	78.05	----	29.23	----	48.82
WCW-4	04/14/2008	78.05	----	29.12	----	48.93

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
WCW-4	10/14/2008	78.05	----	29.96	----	48.09
WCW-4	04/20/2009	78.05	----	30.20	----	47.85
WCW-4	10/19/2009	78.05	----	30.83	----	47.22
WCW-4	01/12/2010	78.05	----	31.40	----	46.65
WCW-4	05/24/2010	78.05	----	31.26	----	46.79
WCW-4	05/28/2010	78.05	----	31.23	----	46.82
WCW-4	01/08/2011	78.05	----	31.57	----	46.48
WCW-4	04/08/2011	78.05	----	29.98	----	48.07
WCW-4	04/11/2011	78.05	----	30.88	----	47.17
WCW-4	07/07/2011	78.05	----	30.86	----	47.19
WCW-4	10/06/2011	78.05	----	30.96	----	47.09
WCW-4	04/16/2012	78.05	----	31.17	----	46.88
WCW-4	04/08/2013	78.05	----	32.12	----	45.93
WCW-4	10/07/2013	78.05	----	32.78	----	45.27
WCW-4	04/14/2014	78.05	----	33.54	----	44.51
WCW-4	10/27/2014	78.05	----	34.21	----	43.84
WCW-4	04/20/2015	78.05	----	34.52	----	43.53
WCW-4	10/19/2015	78.05	----	35.10	----	42.95
WCW-4	04/11/2016	78.05	----	35.60	----	42.45
WCW-4	10/3/2016	78.05	----	36.10	----	41.95
WCW-4	4/17/2017	78.05	----	36.61	----	41.44
WCW-4	10/2/2017	78.05	----	36.79	----	41.26
WCW-5	05/28/1996	73.49	----	26.63	----	46.86
WCW-5	11/20/1996	73.49	----	26.94	----	46.55
WCW-5	07/01/1997	73.49	----	27.65	----	45.84
WCW-5	12/31/1997	73.49	----	27.10	----	46.39
WCW-5	05/01/1998	73.49	----	25.28	----	48.21
WCW-5	05/04/1999	73.49	----	24.80	----	48.69
WCW-5	08/09/1999	73.49	----	25.11	----	48.38
WCW-5	11/15/1999	73.49	----	25.46	----	48.03
WCW-5	05/15/2000	73.49	----	25.14	----	48.35
WCW-5	11/13/2000	73.49	----	25.95	----	47.54
WCW-5	05/07/2001	73.49	----	24.82	----	48.67
WCW-5	04/08/2002	73.49	----	24.85	----	48.64
WCW-5	10/21/2002	73.49	----	29.34	----	44.15
WCW-5	04/07/2003	73.49	----	25.38	----	48.11
WCW-5	10/06/2003	73.49	----	25.27	----	48.22
WCW-5	05/10/2004	73.49	----	25.90	----	47.59
WCW-5	11/01/2004	73.49	----	26.09	----	47.40
WCW-5	05/02/2005	73.49	----	23.44	----	50.05
WCW-5	05/01/2006	73.49	----	22.85	----	50.64
WCW-5	12/01/2006	73.49	----	23.80	----	49.69
WCW-5	04/30/2007	73.49	----	23.56	----	49.93
WCW-5	11/12/2007	73.49	----	24.15	----	49.34

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
WCW-5	04/14/2008	73.49	----	24.20	----	49.29
WCW-5	10/14/2008	73.49	----	24.82	----	48.67
WCW-5	04/20/2009	73.49	----	24.97	----	48.52
WCW-5	10/19/2009	73.49	----	25.71	----	47.78
WCW-5	01/12/2010	73.49	----	26.53	----	46.96
WCW-5	05/24/2010	73.49	----	25.70	----	47.79
WCW-5	05/28/2010	73.49	----	25.65	----	47.84
WCW-5	01/08/2011	73.49	----	26.15	----	47.34
WCW-5	04/08/2011	73.49	----	25.32	----	48.17
WCW-5	04/11/2011	73.49	----	25.23	----	48.26
WCW-5	07/07/2011	73.49	----	24.85	----	48.64
WCW-5	10/06/2011	73.49	----	25.18	----	48.31
WCW-5	04/16/2012	73.49	----	25.92	----	47.57
WCW-5	04/08/2013	73.49	----	27.17	----	46.32
WCW-5	10/07/2013	73.49	----	28.62	----	44.87
WCW-5	04/14/2014	73.49	----	28.76	----	44.73
WCW-5	10/27/2014	73.49	----	29.51	----	43.98
WCW-5	04/20/2015	73.49	----	29.93	----	43.56
WCW-5	10/19/2015	73.49	----	30.77	----	42.72
WCW-5	04/11/2016	73.49	----	31.48	----	42.01
WCW-5	10/3/2016	73.49	----	32.20	----	41.29
WCW-5	4/17/2017	73.49	----	31.21	----	42.28
WCW-5	10/2/2017	73.49	----	32.34	----	41.15
WCW-6	05/28/1996	75.52	----	28.91	----	46.61
WCW-6	11/20/1996	75.52	----	29.55	----	45.97
WCW-6	07/01/1997	75.52	----	30.17	----	45.35
WCW-6	12/31/1997	75.52	----	29.46	----	46.06
WCW-6	05/01/1998	75.52	----	27.67	----	47.85
WCW-6	05/04/1999	75.52	----	27.38	----	48.14
WCW-6	08/09/1999	75.52	----	27.82	----	47.70
WCW-6	11/15/1999	75.52	----	27.90	----	47.62
WCW-6	05/15/2000	75.52	----	27.68	----	47.84
WCW-6	11/13/2000	75.52	----	28.67	----	46.85
WCW-6	05/07/2001	75.52	----	27.21	----	48.31
WCW-6	04/08/2002	75.52	----	27.52	----	48.00
WCW-6	10/21/2002	75.52	----	27.72	----	47.80
WCW-6	04/07/2003	75.52	----	27.63	----	47.89
WCW-6	10/06/2003	75.52	----	27.75	----	47.77
WCW-6	05/10/2004	75.52	----	28.35	----	47.17
WCW-6	11/01/2004	75.52	----	28.51	----	47.01
WCW-6	05/02/2005	75.52	----	25.64	----	49.88
WCW-6	05/01/2006	75.52	----	25.10	----	50.42
WCW-6	12/01/2006	75.52	----	26.06	----	49.46
WCW-6	04/30/2007	75.52	----	25.79	----	49.73

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
WCW-6	11/12/2007	75.52	----	26.44	----	49.08
WCW-6	04/14/2008	75.52	----	26.41	----	49.11
WCW-6	10/14/2008	75.52	----	27.13	----	48.39
WCW-6	04/20/2009	75.52	----	27.40	----	48.12
WCW-6	10/19/2009	75.52	----	27.87	----	47.65
WCW-6	01/12/2010	75.52	----	28.24	----	47.28
WCW-6	05/24/2010	75.52	----	28.10	----	47.42
WCW-6	05/28/2010	75.52	----	28.02	----	47.50
WCW-6	01/08/2011	75.52	----	28.58	----	46.94
WCW-6	04/08/2011	75.52	----	27.55	----	47.97
WCW-6	04/11/2011	75.52	----	27.41	----	48.11
WCW-6	07/07/2011	75.52	----	27.19	----	48.33
WCW-6	10/06/2011	75.52	----	27.62	----	47.90
WCW-6	10/10/2011	75.52	----	27.33	----	48.19
WCW-6	04/16/2012	75.52	----	28.33	----	47.19
WCW-6	04/08/2013	75.52	----	29.59	----	45.93
WCW-6	10/07/2013	75.52	----	30.56	----	44.96
WCW-6	04/14/2014	75.52	----	31.12	----	44.40
WCW-6	10/27/2014	75.52	----	31.69	----	43.83
WCW-6	04/20/2015	75.52	----	32.08	----	43.44
WCW-6	10/19/2015	75.52	----	32.82	----	42.70
WCW-6	04/11/2016	75.52	----	33.53	----	41.99
WCW-6	10/3/2016	75.52	----	34.00	----	41.52
WCW-6	4/17/2017	75.52	----	33.51	----	42.01
WCW-6	10/2/2017	75.52	----	34.22	----	41.30
WCW-7	05/28/1996	76.44	----	28.91	----	47.53
WCW-7	11/20/1996	76.44	----	30.55	----	45.89
WCW-7	07/01/1997	76.44	----	31.50	----	44.94
WCW-7	12/31/1997	76.44	----	30.79	----	45.65
WCW-7	05/01/1998	76.44	----	28.81	----	47.63
WCW-7	05/04/1999	76.44	----	29.26	----	47.18
WCW-7	08/09/1999	76.44	----	29.75	----	46.69
WCW-7	11/15/1999	76.44	----	29.86	----	46.58
WCW-7	05/15/2000	76.44	----	29.02	----	47.42
WCW-7	11/13/2000	76.44	----	29.69	----	46.75
WCW-7	02/05/2001	76.44	----	29.10	----	47.34
WCW-7	05/07/2001	76.44	----	28.48	----	47.96
WCW-7	09/18/2001	76.44	----	28.18	----	48.26
WCW-7	01/29/2002	76.44	----	28.64	----	47.80
WCW-7	04/08/2002	76.44	----	29.03	----	47.41
WCW-7	07/29/2002	76.44	----	28.94	----	47.50
WCW-7	10/21/2002	76.44	----	28.93	----	47.51
WCW-7	01/27/2003	76.44	----	28.70	----	47.74
WCW-7	04/07/2003	76.44	----	28.72	----	47.72

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
WCW-7	07/31/2003	76.44	----	28.67	----	47.77
WCW-7	10/06/2003	76.44	----	29.03	----	47.41
WCW-7	01/27/2004	76.44	----	28.98	----	47.46
WCW-7	05/10/2004	76.44	----	29.46	----	46.98
WCW-7	07/19/2004	76.44	----	30.18	----	46.26
WCW-7	11/01/2004	76.44	----	29.56	----	46.88
WCW-7	02/01/2005	76.44	----	28.76	----	47.68
WCW-7	05/02/2005	76.44	----	26.51	----	49.93
WCW-7	08/01/2005	76.44	----	25.72	----	50.72
WCW-7	02/27/2006	76.44	----	25.09	----	51.35
WCW-7	05/01/2006	76.44	----	26.41	----	50.03
WCW-7	09/18/2006	76.44	----	26.72	----	49.72
WCW-7	12/01/2006	76.44	----	27.13	----	49.31
WCW-7	03/12/2007	76.44	----	27.28	----	49.16
WCW-7	04/30/2007	76.44	----	26.96	----	49.48
WCW-7	08/28/2007	76.44	----	26.70	----	49.74
WCW-7	11/12/2007	76.44	----	27.67	----	48.77
WCW-7	02/19/2008	76.44	----	27.69	----	48.75
WCW-7	04/14/2008	76.44	----	27.56	----	48.88
WCW-7	08/11/2008	76.44	----	28.00	----	48.44
WCW-7	10/16/2008	76.44	----	28.53	----	47.91
WCW-7	04/20/2009	76.44	----	28.72	----	47.72
WCW-7	07/20/2009	76.44	----	28.94	----	47.50
WCW-7	10/19/2009	76.44	----	29.29	----	47.15
WCW-7	01/12/2010	76.44	----	29.94	----	46.50
WCW-7	03/15/2010	76.44	----	30.00	----	46.44
WCW-7	05/24/2010	76.44	----	29.75	----	46.69
WCW-7	05/28/2010	76.44	----	29.65	----	46.79
WCW-7	10/04/2010	76.44	----	29.53	----	46.91
WCW-7	01/08/2011	76.44	----	30.23	----	46.21
WCW-7	01/10/2011	76.44	----	29.87	----	46.57
WCW-7	04/08/2011	76.44	----	29.04	----	47.40
WCW-7	04/11/2011	76.44	----	28.90	----	47.54
WCW-7	07/07/2011	76.44	----	28.96	----	47.48
WCW-7	07/11/2011	76.44	----	28.74	----	47.70
WCW-7	10/10/2011	76.44	----	28.93	----	47.51
WCW-7	01/09/2012	76.44	----	29.35	----	47.09
WCW-7	04/16/2012	76.44	----	29.17	----	47.27
WCW-7	07/09/2012	76.44	----	28.34	----	48.10
WCW-7	10/15/2012	76.44	----	30.41	----	46.03
WCW-7	01/14/2013	76.44	----	30.88	----	45.56
WCW-7	04/08/2013	76.44	----	30.91	----	45.53
WCW-7	10/07/2013	76.44	----	32.25	----	44.19
WCW-7	04/14/2014	76.44	----	32.46	----	43.98

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HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
WCW-7	10/27/2014	76.44	----	32.88	----	43.56
WCW-7	04/20/2015	76.44	----	33.22	----	43.22
WCW-7	10/19/2015	76.44	----	34.05	----	42.39
WCW-7	04/11/2016	76.44	----	34.46	----	41.98
WCW-7	10/3/2016	76.44	----	34.22	----	42.22
WCW-7	4/17/2017	76.44	----	DRY	----	NC
WCW-7	10/2/2017	76.44	----	35.34	----	41.10
WCW-8	05/28/1996	77.34	----	31.45	----	45.89
WCW-8	11/20/1996	77.34	----	31.59	----	45.75
WCW-8	07/01/1997	77.34	----	32.38	----	44.96
WCW-8	12/31/1997	77.34	----	31.81	----	45.53
WCW-8	05/01/1998	77.34	----	30.04	----	47.30
WCW-8	05/04/1999	77.34	----	30.21	----	47.13
WCW-8	08/09/1999	77.34	----	30.49	----	46.85
WCW-8	11/15/1999	77.34	----	30.81	----	46.53
WCW-8	05/15/2000	77.34	----	29.88	----	47.46
WCW-8	08/28/2000	77.34	----	30.23	----	47.11
WCW-8	11/13/2000	77.34	----	30.26	----	47.08
WCW-8	02/05/2001	77.34	----	30.01	----	47.33
WCW-8	05/07/2001	77.34	----	29.42	----	47.92
WCW-8	09/18/2001	77.34	----	29.11	----	48.23
WCW-8	01/29/2002	77.34	----	29.45	----	47.89
WCW-8	04/08/2002	77.34	----	29.77	----	47.57
WCW-8	10/21/2002	77.34	----	29.84	----	47.50
WCW-8	04/07/2003	77.34	----	29.71	----	47.63
WCW-8	10/06/2003	77.34	----	29.75	----	47.59
WCW-8	05/10/2004	77.34	----	29.99	----	47.35
WCW-8	11/01/2004	77.34	----	30.36	----	46.98
WCW-8	05/02/2005	77.34	----	27.42	----	49.92
WCW-8	05/01/2006	77.34	----	27.18	----	50.16
WCW-8	12/01/2006	77.34	----	27.91	----	49.43
WCW-8	04/30/2007	77.34	----	27.82	----	49.52
WCW-8	11/12/2007	77.34	----	28.62	----	48.72
WCW-8	04/14/2008	77.34	----	28.53	----	48.81
WCW-8	10/16/2008	77.34	----	29.52	----	47.82
WCW-8	04/20/2009	77.34	----	29.40	----	47.94
WCW-8	10/19/2009	77.34	----	30.10	----	47.24
WCW-8	01/12/2010	77.34	----	31.30	----	46.04
WCW-8	05/24/2010	77.34	----	30.75	----	46.59
WCW-8	05/28/2010	77.34	----	30.74	----	46.60
WCW-8	01/08/2011	77.34	----	31.27	----	46.07
WCW-8	04/08/2011	77.34	----	30.15	----	47.19
WCW-8	04/11/2011	77.34	----	30.03	----	47.31
WCW-8	07/07/2011	77.34	----	30.07	----	47.27

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HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
WCW-8	10/06/2011	77.34	----	30.27	----	47.07
WCW-8	04/16/2012	77.34	----	30.76	----	46.58
WCW-8	04/08/2013	77.34	----	31.62	----	45.72
WCW-8	10/07/2013	77.34	----	32.42	----	44.92
WCW-8	04/14/2014	77.34	----	33.53	----	43.81
WCW-8	10/27/2014	77.34	----	33.75	----	43.59
WCW-8	04/20/2015	77.34	----	34.05	----	43.29
WCW-8	10/19/2015	77.34	----	34.78	----	42.56
WCW-8	04/11/2016	77.34	----	35.17	----	42.17
WCW-8	10/3/2016	77.34	----	35.70	----	41.64
WCW-8	4/17/2017	77.34	----	36.00	----	41.34
WCW-8	10/2/2017	77.34	----	36.14	----	41.20
WCW-9	05/28/1996	77.74	----	31.98	----	45.76
WCW-9	11/20/1996	77.74	----	32.13	----	45.61
WCW-9	07/01/1997	77.74	----	32.47	----	45.27
WCW-9	12/31/1997	77.74	----	32.22	----	45.52
WCW-9	05/01/1998	77.74	----	30.75	----	46.99
WCW-9	05/04/1999	77.74	----	30.16	----	47.58
WCW-9	08/09/1999	77.74	----	30.44	----	47.30
WCW-9	11/15/1999	77.74	----	30.79	----	46.95
WCW-9	05/15/2000	77.74	----	30.32	----	47.42
WCW-9	11/13/2000	77.74	----	30.59	----	47.15
WCW-9	05/07/2001	77.74	----	29.92	----	47.82
WCW-9	04/08/2002	77.74	----	30.07	----	47.67
WCW-9	10/21/2002	77.74	----	30.36	----	47.38
WCW-9	04/07/2003	77.74	----	30.23	----	47.51
WCW-9	10/06/2003	77.74	----	30.20	----	47.54
WCW-9	05/10/2004	77.74	----	30.35	----	47.39
WCW-9	11/01/2004	77.74	----	30.77	----	46.97
WCW-9	05/02/2005	77.74	----	27.80	----	49.94
WCW-9	05/01/2006	77.74	----	27.61	----	50.13
WCW-9	12/01/2006	77.74	----	28.54	----	49.20
WCW-9	04/30/2007	77.74	----	28.36	----	49.38
WCW-9	11/12/2007	77.74	----	29.24	----	48.50
WCW-9	04/14/2008	77.74	----	29.11	----	48.63
WCW-9	10/16/2008	77.74	----	29.98	----	47.76
WCW-9	04/20/2009	77.74	----	29.96	----	47.78
WCW-9	05/24/2010	77.74	----	31.02	----	46.72
WCW-9	05/28/2010	77.74	----	31.00	----	46.74
WCW-9	10/01/2010	77.74	----	31.00	----	46.74
WCW-9	01/08/2011	77.74	----	31.37	----	46.37
WCW-9	04/11/2011	77.74	----	30.68	----	47.06
WCW-9	04/12/2011	77.74	----	30.78	----	46.96
WCW-9	07/07/2011	77.74	----	30.66	----	47.08

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Defense Fuel Support Point Norwalk
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Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
WCW-9	10/06/2011	77.74	----	30.82	----	46.92
WCW-9	04/16/2012	77.74	----	31.15	----	46.59
WCW-9	04/08/2013	77.74	----	31.73	----	46.01
WCW-9	10/07/2013	77.74	----	33.04	----	44.70
WCW-9	04/14/2014	77.74	----	33.24	----	44.50
WCW-9	10/27/2014	77.74	----	34.10	----	43.64
WCW-9	04/20/2015	77.74	----	33.92	----	43.82
WCW-9	10/19/2015	77.74	----	34.91	----	42.83
WCW-9	04/11/2016	77.74	----	35.52	----	42.22
WCW-9	10/3/2016	77.74	----	35.29	----	42.45
WCW-9	4/17/2017	77.74	----	35.10	----	42.64
WCW-9	10/2/2017	77.74	----	36.49	----	41.25
WCW-10	05/28/1996	74.06	----	27.71	----	46.35
WCW-10	11/20/1996	74.06	----	27.61	----	46.45
WCW-10	07/01/1997	74.06	----	27.23	----	46.83
WCW-10	12/31/1997	74.06	----	27.21	----	46.85
WCW-10	05/01/1998	74.06	----	23.22	----	50.84
WCW-10	05/04/1999	74.06	----	24.52	----	49.54
WCW-10	08/09/1999	74.06	----	24.63	----	49.43
WCW-10	11/15/1999	74.06	----	24.89	----	49.17
WCW-10	05/15/2000	74.06	----	25.50	----	48.56
WCW-10	11/13/2000	74.06	----	25.18	----	48.88
WCW-10	05/07/2001	74.06	----	24.66	----	49.40
WCW-10	04/08/2002	74.06	----	24.71	----	49.35
WCW-10	10/21/2002	74.06	----	25.20	----	48.86
WCW-10	04/07/2003	74.06	----	25.23	----	48.83
WCW-10	05/10/2004	74.06	----	25.41	----	48.65
WCW-10	11/01/2004	74.06	----	25.66	----	48.40
WCW-10	05/02/2005	74.06	----	23.47	----	50.59
WCW-10	05/01/2006	74.06	----	23.17	----	50.89
WCW-10	04/30/2007	74.06	----	23.74	----	50.32
WCW-10	11/12/2007	74.06	----	24.41	----	49.65
WCW-10	10/14/2008	74.06	----	24.95	----	49.11
WCW-10	04/20/2009	74.06	----	24.90	----	49.16
WCW-10	01/12/2010	74.06	----	26.40	----	47.66
WCW-10	05/24/2010	74.06	----	25.70	----	48.36
WCW-10	05/28/2010	74.06	----	25.67	----	48.39
WCW-10	10/01/2010	74.06	----	25.86	----	48.20
WCW-10	01/08/2011	74.06	----	25.92	----	48.14
WCW-10	04/08/2011	74.06	----	25.62	----	48.44
WCW-10	04/11/2011	74.06	----	25.55	----	48.51
WCW-10	07/07/2011	74.06	----	25.40	----	48.66
WCW-10	10/06/2011	74.06	----	25.41	----	48.65
WCW-10	04/16/2012	74.06	----	25.80	----	48.26

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
WCW-10	04/08/2013	74.06	----	26.73	----	47.33
WCW-10	10/07/2013	74.06	----	28.01	----	46.05
WCW-10	04/14/2014	74.06	----	28.00	----	46.06
WCW-10	10/27/2014	74.06	----	28.45	----	45.61
WCW-10	04/20/2015	74.06	----	29.17	----	44.89
WCW-10	10/19/2015	74.06	----	30.00	----	44.06
WCW-10	04/11/2016	74.06	----	30.79	----	43.27
WCW-10	10/3/2016	74.06	----	31.81	----	42.25
WCW-10	4/17/2017	74.06	----	32.13	----	41.93
WCW-10	10/2/2017	74.06	----	32.52	----	41.54
WCW-11	05/28/1996	75.29	----	29.30	----	45.99
WCW-11	11/20/1996	75.29	----	29.24	----	46.05
WCW-11	07/01/1997	75.29	----	28.91	----	46.38
WCW-11	12/31/1997	75.29	----	29.14	----	46.15
WCW-11	05/01/1998	75.29	----	26.04	----	49.25
WCW-11	05/04/1999	75.29	----	26.63	----	48.66
WCW-11	08/09/1999	75.29	----	26.30	----	48.99
WCW-11	11/15/1999	75.29	----	26.55	----	48.74
WCW-11	05/15/2000	75.29	----	26.91	----	48.38
WCW-11	11/13/2000	75.29	----	26.77	----	48.52
WCW-11	05/07/2001	75.29	----	26.65	----	48.64
WCW-11	04/08/2002	75.29	----	26.45	----	48.84
WCW-11	10/21/2002	75.29	----	26.72	----	48.57
WCW-11	04/07/2003	75.29	----	26.78	----	48.51
WCW-11	05/10/2004	75.29	----	26.89	----	48.40
WCW-11	11/01/2004	75.29	----	27.22	----	48.07
WCW-11	05/02/2005	75.29	----	25.23	----	50.06
WCW-11	05/01/2006	75.29	----	24.45	----	50.84
WCW-11	04/30/2007	75.29	----	25.18	----	50.11
WCW-11	11/12/2007	75.29	----	25.97	----	49.32
WCW-11	10/16/2008	75.29	----	26.61	----	48.68
WCW-11	04/20/2009	75.29	----	26.62	----	48.67
WCW-11	01/12/2010	75.29	----	27.83	----	47.46
WCW-11	05/24/2010	75.29	----	27.77	----	47.52
WCW-11	05/28/2010	75.29	----	27.46	----	47.83
WCW-11	10/01/2010	75.29	----	27.65	----	47.64
WCW-11	01/08/2011	75.29	----	27.67	----	47.62
WCW-11	04/08/2011	75.29	----	27.39	----	47.90
WCW-11	04/11/2011	75.29	----	27.43	----	47.86
WCW-11	07/07/2011	75.29	27.18	27.19	0.01	NC
WCW-11	10/06/2011	75.29	----	27.11	----	48.18
WCW-11	04/16/2012	75.29	----	27.56	----	47.73

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
WCW-11	04/08/2013	75.29	----	26.91	----	48.38
WCW-11	10/07/2013	75.29	----	29.54	----	45.75
WCW-11	04/14/2014	75.29	----	29.79	----	45.50
WCW-11	10/27/2014	75.29	----	30.61	----	44.68
WCW-11	04/20/2015	75.29	----	31.19	----	44.10
WCW-11	10/19/2015	75.29	----	32.02	----	43.27
WCW-11	04/11/2016	75.29	----	32.67	----	42.62
WCW-11	10/3/2016	75.29	----	33.31	----	41.98
WCW-11	4/17/2017	75.29	----	33.65	----	41.64
WCW-11	10/2/2017	75.29	----	34.14	----	41.15
WCW-12	05/28/1996	76.27	----	30.94	----	45.33
WCW-12	11/20/1996	76.27	----	30.89	----	45.38
WCW-12	07/01/1997	76.27	----	30.34	----	45.93
WCW-12	12/31/1997	76.27	----	30.59	----	45.68
WCW-12	05/01/1998	76.27	----	29.31	----	46.96
WCW-12	05/04/1999	76.27	----	27.63	----	48.64
WCW-12	08/09/1999	76.27	----	27.81	----	48.46
WCW-12	11/15/1999	76.27	----	28.20	----	48.07
WCW-12	05/15/2000	76.27	----	28.17	----	48.10
WCW-12	11/13/2000	76.27	----	28.21	----	48.06
WCW-12	05/07/2001	76.27	----	27.79	----	48.48
WCW-12	04/08/2002	76.27	----	27.70	----	48.57
WCW-12	10/21/2002	76.27	----	28.24	----	48.03
WCW-12	04/07/2003	76.27	----	28.23	----	48.04
WCW-12	05/10/2004	76.27	----	28.34	----	47.93
WCW-12	11/01/2004	76.27	----	28.74	----	47.53
WCW-12	05/02/2005	76.27	----	26.61	----	49.66
WCW-12	05/01/2006	76.27	----	25.95	----	50.32
WCW-12	12/01/2006	76.27	----	26.39	----	49.88
WCW-12	04/30/2007	76.27	----	26.39	----	49.88
WCW-12	11/12/2007	76.27	----	27.15	----	49.12
WCW-12	04/14/2008	76.27	----	27.14	----	49.13
WCW-12	10/16/2008	76.27	----	27.93	----	48.34
WCW-12	04/20/2009	76.27	----	27.82	----	48.45
WCW-12	10/19/2009	76.27	----	28.52	----	47.75
WCW-12	01/12/2010	76.27	----	29.04	----	47.23
WCW-12	05/24/2010	76.27	----	28.90	----	47.37
WCW-12	05/28/2010	76.27	----	28.90	----	47.37
WCW-12	01/08/2011	76.27	----	29.16	----	47.11
WCW-12	04/08/2011	76.27	----	28.79	----	47.48

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
WCW-12	04/11/2011	76.27	----	28.70	----	47.57
WCW-12	07/07/2011	76.27	----	28.60	----	47.67
WCW-12	10/06/2011	76.27	----	28.55	----	47.72
WCW-12	04/16/2012	76.27	----	29.05	----	47.22
WCW-12	04/08/2013	76.27	----	29.98	----	46.29
WCW-12	10/07/2013	76.27	----	31.13	----	45.14
WCW-12	04/14/2014	76.27	----	31.30	----	44.97
WCW-12	04/14/2014	76.27	----	31.30	----	44.97
WCW-12	04/20/2015	76.27	----	32.62	----	43.65
WCW-12	10/19/2015	76.27	----	33.32	----	42.95
WCW-12	04/11/2016	76.27	----	34.06	----	42.21
WCW-12	10/3/2016	76.27	----	34.60	----	41.67
WCW-12	4/17/2017	76.27	----	35.00	----	41.27
WCW-12	10/2/2017	76.27	----	35.22	----	41.05
WCW-13	05/28/1996	77.70	----	32.61	----	45.09
WCW-13	11/20/1996	77.70	----	32.51	----	45.19
WCW-13	07/01/1997	77.70	----	32.44	----	45.26
WCW-13	12/31/1997	77.70	----	32.24	----	45.46
WCW-13	05/01/1998	77.70	----	30.90	----	46.80
WCW-13	05/04/1999	77.70	----	29.39	----	48.31
WCW-13	08/09/1999	77.70	----	30.82	----	46.88
WCW-13	11/15/1999	77.70	----	29.96	----	47.74
WCW-13	05/15/2000	77.70	----	29.83	----	47.87
WCW-13	08/28/2000	77.70	----	29.92	----	47.78
WCW-13	11/13/2000	77.70	----	29.96	----	47.74
WCW-13	02/05/2001	77.70	----	30.15	----	47.55
WCW-13	05/07/2001	77.70	----	29.80	----	47.90
WCW-13	09/18/2001	77.70	----	29.25	----	48.45
WCW-13	01/29/2002	77.70	----	29.40	----	48.30
WCW-13	04/08/2002	77.70	----	29.51	----	48.19
WCW-13	07/29/2002	77.70	----	29.71	----	47.99
WCW-13	10/21/2002	77.70	----	29.94	----	47.76
WCW-13	01/27/2003	77.70	----	30.00	----	47.70
WCW-13	04/07/2003	77.70	----	30.02	----	47.68
WCW-13	07/31/2003	77.70	----	29.80	----	47.90
WCW-13	01/27/2004	77.70	----	30.01	----	47.69
WCW-13	05/10/2004	77.70	----	30.10	----	47.60
WCW-13	07/19/2004	77.70	----	29.22	----	48.48
WCW-13	11/01/2004	77.70	----	30.44	----	47.26
WCW-13	02/01/2005	77.70	----	30.15	----	47.55

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
WCW-13	05/02/2005	77.70	----	28.35	----	49.35
WCW-13	08/01/2005	77.70	----	27.66	----	50.04
WCW-13	02/27/2006	77.70	----	27.46	----	50.24
WCW-13	05/01/2006	77.70	----	27.57	----	50.13
WCW-13	09/18/2006	77.70	----	27.66	----	50.04
WCW-13	12/01/2006	77.70	----	28.10	----	49.60
WCW-13	03/12/2007	77.70	----	28.00	----	49.70
WCW-13	04/30/2007	77.70	----	28.06	----	49.64
WCW-13	08/28/2007	77.70	----	28.31	----	49.39
WCW-13	11/12/2007	77.70	----	28.79	----	48.91
WCW-13	02/19/2008	77.70	----	28.80	----	48.90
WCW-13	04/14/2008	77.70	----	28.78	----	48.92
WCW-13	08/11/2008	77.70	----	29.12	----	48.58
WCW-13	10/16/2008	77.70	----	29.62	----	48.08
WCW-13	04/20/2009	77.70	----	29.61	----	48.09
WCW-13	07/20/2009	77.70	----	30.20	----	47.50
WCW-13	10/19/2009	77.70	----	30.26	----	47.44
WCW-13	01/12/2010	77.70	----	31.56	----	46.14
WCW-13	03/15/2010	77.70	----	31.34	----	46.36
WCW-13	05/24/2010	77.70	----	30.65	----	47.05
WCW-13	05/28/2010	77.70	----	30.68	----	47.02
WCW-13	10/04/2010	77.70	----	30.61	----	47.09
WCW-13	01/08/2011	77.70	----	31.00	----	46.70
WCW-13	01/10/2011	77.70	----	30.96	----	46.74
WCW-13	04/08/2011	77.70	----	29.59	----	48.11
WCW-13	04/11/2011	77.70	----	30.52	----	47.18
WCW-13	07/07/2011	77.70	----	30.42	----	47.28
WCW-13	07/11/2011	77.70	----	30.24	----	47.46
WCW-13	10/10/2011	77.70	----	30.30	----	47.40
WCW-13	01/09/2012	77.70	----	30.24	----	47.46
WCW-13	04/16/2012	77.70	----	30.81	----	46.89
WCW-13	07/09/2012	77.70	----	31.05	----	46.65
WCW-13	10/15/2012	77.70	----	31.38	----	46.32
WCW-13	01/14/2013	77.70	----	31.54	----	46.16
WCW-13	04/08/2013	77.70	----	31.67	----	46.03
WCW-13	10/07/2013	77.70	----	32.66	----	45.04
WCW-13	04/14/2014	77.70	----	32.94	----	44.76
WCW-13	10/27/2014	77.70	----	33.67	----	44.03
WCW-13	04/20/2015	77.70	----	34.10	----	43.60
WCW-13	10/19/2015	77.70	----	34.75	----	42.95

**APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
WCW-13	04/11/2016	77.70	----	35.32	----	42.38
WCW-13	10/3/2016	77.70	----	36.03	----	41.67
WCW-13	4/17/2017	77.70	----	36.83	----	40.87
WCW-13	10/2/2017	77.70	----	36.64	----	41.06
WCW-14	05/03/1999	78.81	----	30.67	----	48.14
WCW-14	08/09/1999	78.81	----	30.83	----	47.98
WCW-14	11/15/1999	78.81	----	31.19	----	47.62
WCW-14	05/15/2000	78.81	----	31.02	----	47.79
WCW-14	11/13/2000	78.81	----	31.26	----	47.55
WCW-14	05/07/2001	78.81	----	30.85	----	47.96
WCW-14	04/08/2002	78.81	----	30.71	----	48.10
WCW-14	10/21/2002	78.81	----	31.07	----	47.74
WCW-14	04/07/2003	78.81	----	31.11	----	47.70
WCW-14	05/10/2004	78.81	----	31.29	----	47.52
WCW-14	11/01/2004	78.81	----	31.59	----	47.22
WCW-14	05/02/2005	78.81	----	29.38	----	49.43
WCW-14	05/01/2006	78.81	----	28.59	----	50.22
WCW-14	12/01/2006	78.81	----	29.22	----	49.59
WCW-14	04/30/2007	78.81	----	29.16	----	49.65
WCW-14	11/12/2007	78.81	----	29.90	----	48.91
WCW-14	04/14/2008	78.81	----	29.85	----	48.96
WCW-14	10/16/2008	78.81	----	30.74	----	48.07
WCW-14	04/20/2009	78.81	----	30.83	----	47.98
WCW-14	10/19/2009	78.81	----	31.32	----	47.49
WCW-14	01/12/2010	78.81	----	32.24	----	46.57
WCW-14	05/24/2010	78.81	----	31.87	----	46.94
WCW-14	05/28/2010	78.81	----	31.84	----	46.97
WCW-14	01/08/2011	78.81	----	32.13	----	46.68
WCW-14	04/08/2011	78.81	----	31.57	----	47.24
WCW-14	04/11/2011	78.81	----	31.66	----	47.15
WCW-14	07/07/2011	78.81	----	31.60	----	47.21
WCW-14	10/06/2011	78.81	----	31.57	----	47.24
WCW-14	04/16/2012	78.81	----	31.97	----	46.84
WCW-14	04/08/2013	78.81	----	32.71	----	46.10
WCW-14	10/07/2013	78.81	----	33.41	----	45.40
WCW-14	04/14/2014	78.81	----	34.01	----	44.80
WCW-14	10/27/2014	78.81	----	34.67	----	44.14
WCW-14	04/20/2015	78.81	----	35.09	----	43.72
WCW-14	10/19/2015	78.81	----	35.71	----	43.10
WCW-14	04/11/2016	78.81	----	36.22	----	42.59

APPENDIX D
HISTORICAL GROUNDWATER ELEVATIONS, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Top of Casing Elevation (feet MSL)	Depth to Product (feet btc)	Depth to Groundwater (feet btc)	Measured Product Thickness (feet)	Groundwater Elevation (feet MSL)
WCW-14	10/3/2016	78.81	-----	36.70	-----	42.11
WCW-14	4/17/2017	78.81	-----	37.40	-----	41.41
WCW-14	10/2/2017	78.81	-----	37.60	-----	41.21

Notes: feet MSL = feet above mean sea level, based on Los Angeles County Datum, 1980
 feet btc = feet below top of casing
 ----- = not detected/not applicable
 NC = not calculated due to presence of product in well

APPENDIX E

**HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1,2-DCA, MTBE, TBA, DIPE, ETBE,
AND TAME IN GROUNDWATER – NOVEMBER 1996 THROUGH OCTOBER 2017**

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
BW-1	05/24/97		<100	<50	<0.30	<0.50	<0.30	<0.60	100	<5	----	----	----	----
BW-2	05/24/97		<100	<50	<0.30	<0.50	<0.30	1.4	85	<5	----	----	----	----
BW-3	05/24/97		<100	300	<0.30	<0.50	<0.30	<0.60	490	74	----	----	----	----
BW-4	05/28/97		960	560	160	2.4	200	9.2	20	850	----	----	----	----
BW-5	05/28/97		150	310	<0.30	<0.30	5.0	<0.60	30	1,100	----	----	----	----
BW-6	05/29/97		<100	690	3.5	<0.30	3.7	<0.30	14	<5	----	----	----	----
BW-7	05/29/97		200	510	0.99	<0.30	<0.30	<0.30	310	9.2	----	----	----	----
BW-8	05/29/97		<100	450	<0.30	<0.30	<0.30	<0.30	39	<5	----	----	----	----
BW-9	05/30/97		<100	230	<0.30	<0.30	<0.30	<0.60	1.4	<5	----	----	----	----
EXP-1	11/27/96	GSI	82	<500	1.4	<0.50	<0.50	2.7	<0.50	<1	----	----	----	----
EXP-1	03/14/97	GTI	<50	<47	<0.50	<0.50	<0.50	<0.50	----	----	----	----	----	----
EXP-1	03/14/97	GTI	<50	<50	<0.50	<0.50	<0.50	<0.50	----	----	----	----	----	----
EXP-1	03/14/97	GTI	<100	----	<2	<2	<2	<2	----	----	----	----	----	----
EXP-1	07/10/97	GTI	<50	290	<5	<5	<5	<5	<5	<5	----	----	----	----
EXP-1	01/09/98	GTI	<500	<100	<0.50	<0.50	<0.50	<1	<0.50	<0.50	----	----	----	----
EXP-1	05/20/98	BBC	<300	----	0.50	0.90	<0.50	<1	<0.50	<0.50	----	----	----	----
EXP-1	11/04/98	GTI	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	05/26/99	GTI	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	08/10/99	Alton Geoscience	<500	<1,000	<0.50	<1	<1	<1	<0.50	<1	----	----	----	----
EXP-1	09/23/99	Secor	<300	----	<0.50	<1	<1	<1	<0.50	<1	----	----	----	----
EXP-1	10/12/99	Secor	<300	----	<0.50	<1	<1	<1	<0.50	<1	----	----	----	----
EXP-1	11/18/99	IT Corporation	<300	----	<0.50	<1	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	11/19/99	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	12/21/99	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	01/20/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	02/28/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	03/28/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	04/20/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	05/17/00	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	05/18/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	06/30/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	08/28/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	11/29/00	IT Corporation	<300	----	0.50	<0.50	<0.50	0.70	<0.50	<0.50	----	----	----	----
EXP-1	02/06/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	05/08/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	05/09/01	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	09/19/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	11/07/01	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	11/07/01	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	01/30/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	04/10/02	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	04/11/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	07/30/02	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	0.98	----	----	----	----
EXP-1	09/06/02	Secor	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	10/23/02	GTI	<300	----	<0.50	<1	<1	<0.30	<0.50	<5	----	----	----	----
EXP-1	10/24/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	01/29/03	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	04/08/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	04/10/03	GTI	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	07/30/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	10/08/03	Blaine Tech for	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	10/08/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Xylenes	1,2-DCA	MTBE	TBA	DIPE	ETBE	TAME
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
EXP-1	01/29/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	04/21/04	Blaine Tech for	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	04/21/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	07/19/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	07/21/04	Blaine Tech for	200	----	<0.50	<0.50	<0.50	<0.50	----	<0.50	----	----	----	----
EXP-1	11/03/04	Blaine Tech for	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	02/02/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	05/04/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	08/02/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	11/02/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	02/27/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	05/02/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	05/03/06	Blaine Tech for	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	09/19/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	12/05/06	Blaine Tech for	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	12/05/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	03/13/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	05/02/07	Blaine Tech for	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	05/02/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	08/29/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	11/13/07	Blaine Tech for	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	11/13/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	02/20/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	04/16/08	Blaine Tech for	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	04/16/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	08/14/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	10/15/08	Blaine Tech for	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	10/17/08	Stantec	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-1	02/24/09	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	----	----	----
EXP-1	04/20/09	Blaine Tech for	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	04/22/09	Blaine Tech for AMEC	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-1	07/20/09	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-1	10/19/09	Blaine Tech for DESC	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	10/19/09	Blaine Tech for	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-1	01/11/10	Blaine Tech for DESC	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	03/15/10	Blaine Tech for	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-1	04/12/10	Blaine Tech for DESC	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	0.44 J	<10	<2	<2	<2
EXP-1	05/25/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-1	07/12/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-1	10/04/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-1	10/04/10	Blaine Tech for	----	----	<0.50	----	----	----	<0.50	0.45 J	<10	----	----	----
EXP-1	01/10/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-1	01/10/11	Blaine Tech for	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	04/11/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-1	04/11/11	Blaine Tech for	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	07/11/11	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-1	07/11/11	Parsons	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	10/10/11	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-1	10/10/11	Parsons	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	01/09/12	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-1	01/09/12	Parsons	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	04/16/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1

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 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
EXP-1	04/16/12	Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	07/09/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-1	07/09/12	Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	10/15/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-1	10/15/12	Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	01/14/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-1	01/14/13	Parsons	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	04/08/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-1	04/08/13	Parsons	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	10/07/13	CHHL	<50	130	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-1	10/07/13	Parsons	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	04/14/14	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-1	04/14/14	Parsons	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	10/28/14	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
EXP-1	10/28/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	<10	<1.0	<1.0	<1.0
EXP-1	04/23/15	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
EXP-1	04/23/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	<10	<1.0	<1.0	<1.0
EXP-1	10/21/15	SGI	<100	<100	0.73	<0.50	<0.50	<1.5	<0.50	2.2	<10	<2.0	<2.0	<2.0
EXP-1	10/21/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.5	<10	<1.0	<1.0	<1.0
EXP-1	04/13/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.0	<10	<1.0	<1.0	<1.0
EXP-1	04/13/16	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	1.7	<10	<2.0	<2.0	<2.0
EXP-1	10/07/16	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	1.7	<10	<2.0	<2.0	<2.0
EXP-1	10/07/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.8	<10	<1.0	<1.0	<1.0
EXP-1	04/20/17	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
EXP-1	04/20/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.81	<10	<1.0	<1.0	<1.0
EXP-1	10/04/17	SGI	<100	260	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
DUP-3 (EXP-1)	10/04/17	SGI	<100	310	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
EXP-1	10/04/17	BT for CH2MHill	<50	220	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
EXP-1	10/25/17	SGI	-----	230	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
EXP-2	11/27/96	GSI	<500	<500	<0.50	<0.50	<0.50	<0.10	<0.50	<1	-----	-----	-----	-----
EXP-2	03/14/97	GTI	<50	75	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----	-----	-----
EXP-2	03/14/97	GTI	72	200	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----	-----	-----
EXP-2	03/14/97	GTI	<100	-----	<2	<2	<2	<2	-----	-----	-----	-----	-----	-----
EXP-2	07/10/97	GTI	<50	<50	<5	<5	<5	<5	<5	<5	-----	-----	-----	-----
EXP-2	01/09/98	GTI	<500	<100	<0.50	<0.50	<0.50	<1	<0.50	<0.50	-----	-----	-----	-----
EXP-2	05/20/98	BBC	<300	-----	<0.50	0.60	<0.50	<1	<0.50	<0.50	-----	-----	-----	-----
EXP-2	11/04/98	GTI	<300	-----	<0.50	1.5	1.0	10	<0.50	<0.50	-----	-----	-----	-----
EXP-2	05/07/99	Alton Geoscience	<500	<500	1.6	1.1	<0.50	1.9	<1	1.7	-----	-----	-----	-----
EXP-2	05/26/99	GTI	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	1.4	-----	-----	-----	-----
EXP-2	07/21/99	Alton Geoscience	<50	-----	<0.50	<0.50	<0.50	<0.50	<1	0.83	-----	-----	-----	-----
EXP-2	08/10/99	Alton Geoscience	<500	<1,000	<0.50	<1	<1	<1	<0.50	<1	-----	-----	-----	-----
EXP-2	09/23/99	Secor	<300	-----	<0.50	<1	<1	<1	<0.50	<1	-----	-----	-----	-----
EXP-2	10/12/99	Secor	<300	-----	<0.50	<1	<1	<1	<0.50	<1	-----	-----	-----	-----
EXP-2	11/18/99	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
EXP-2	11/19/99	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
EXP-2	12/21/99	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
EXP-2	01/20/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
EXP-2	02/28/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
EXP-2	03/28/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
EXP-2	04/20/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
EXP-2	05/16/00	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
EXP-2	05/18/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
EXP-2	06/30/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	08/28/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	11/29/00	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	02/06/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	05/08/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	05/09/01	IT Corporation	<300	----	<0.50	0.90	<0.50	0.80	<0.50	<0.50	----	----	----	----
EXP-2	09/19/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	11/07/01	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	11/07/01	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	01/30/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	04/10/02	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	04/11/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	07/30/02	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	10/23/02	GTI	<300	----	<0.50	<1	<1	<1	<0.50	<1	----	----	----	----
EXP-2	10/24/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	01/28/03	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	04/08/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	04/11/03	GTI	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	07/30/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	10/07/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	10/10/03	BT for Parsons	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	01/29/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	04/21/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	04/22/04	BT for Parsons	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-2	07/20/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	07/21/04	BT for Parsons	120	----	<0.50	<0.50	<0.50	<0.50	----	<0.50	----	----	----	----
EXP-2	11/04/04	BT for Parsons	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-2	02/03/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	05/05/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	08/02/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	11/02/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	02/28/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	05/03/06	BT for Parsons	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-2	05/03/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	09/19/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	12/06/06	BT for Parsons	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-2	12/06/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	03/13/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	05/02/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	05/03/07	BT for Parsons	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-2	08/29/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	11/14/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	02/20/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	04/17/08	BT for Parsons	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	04/17/08	Secor	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-2	08/14/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	10/16/08	BT for Parsons	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-2	10/17/08	Stantec	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-2	02/24/09	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	----	----	----
EXP-2	04/21/09	BT for Parsons	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-2	04/22/09	Blaine Tech for AMEC	<50	----	1.1	0.59	0.67	1.8	<0.50	<0.50	<10	<1	<1	<1
EXP-2	07/20/09	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
EXP-2	10/19/09	Blaine Tech for DESC	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6.1 J	<2	<2	<2
EXP-2	10/19/09	BT for Parsons	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-2	01/11/10	Blaine Tech for DESC	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-2	03/15/10	BT for Parsons	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-2	04/12/10	Blaine Tech for DESC	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<1
EXP-2	05/25/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-2	07/12/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	-----
EXP-2	10/04/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-2	10/04/10	BT for Parsons	-----	-----	<0.50	-----	-----	-----	<0.50	<0.50	<10	-----	-----	<2
EXP-2	01/10/11	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-2	01/10/11	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-2	04/11/11	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-2	04/11/11	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-2	07/11/11	CH2M Hill	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-2	07/11/11	Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-2	10/10/11	CH2M Hill	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-2	10/10/11	Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-2	01/09/12	CH2M Hill	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-2	01/09/12	Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-2	04/16/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-2	04/16/12	Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-2	07/09/12	CHHL	<50	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-2	07/09/12	Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	11	<2	<2	<2
EXP-2	10/15/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-2	10/15/12	Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-2	01/14/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-2	01/14/13	Parsons	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-2	04/08/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-2	04/08/13	Parsons	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-2	10/07/13	CHHL	<50	140	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-2	10/07/13	Parsons	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-2	04/14/14	CHHL	<50	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<2.0
EXP-2	04/14/14	Parsons	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	8.5 J	<2	<2	<1.0
EXP-2	10/28/14	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
EXP-2	10/28/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
EXP-2	04/23/15	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
EXP-2	04/23/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
EXP-2	10/22/15	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<1.0
EXP-2	10/22/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<2.0
EXP-2	04/12/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<2.0
EXP-2	04/12/16	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
EXP-2	10/04/16	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
DUP-2 (EXP-2)	10/04/16	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
EXP-2	10/04/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
EXP-2	04/19/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
EXP-2	04/19/17	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
EXP-2	10/02/17	SGI	<100	150	1.4	<0.50	5.4	1.8	<0.50	<1.0	<10	<2.0	<2.0	<2.0
EXP-2	10/03/17	BT for CH2MHill	<50	<100	0.98	<0.50	4.8	1.3	<0.50	<0.50	<10	<1.0	<1.0	<1.0
EXP-2	10/25/17	SGI	-----	140	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
EXP-3	11/27/96	GSI	<50	<500	<0.50	<0.50	<0.50	<1	<0.50	<1	-----	-----	-----	-----
EXP-3	03/14/97	GTI	<50	120	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----	-----	-----
EXP-3	03/14/97	GTI	<50	250	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----	-----	-----

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
EXP-3	03/14/97	GTI	<100	----	<2	<2	<2	<2	----	----	----	----	----	----
EXP-3	07/10/97	GTI	<50	<50	<5	<5	<5	<5	<5	<5	----	----	----	----
EXP-3	01/09/98	GTI	<500	<100	<0.50	<0.50	<0.50	<1	<0.50	<0.50	----	----	----	----
EXP-3	05/20/98	BBC	<300	----	<0.50	<0.50	<0.50	<1	<0.50	<0.50	----	----	----	----
EXP-3	11/04/98	GTI	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	05/07/99	Alton Geoscience	----	<500	<0.50	<0.50	<0.50	<0.50	<1	0.89	----	----	----	----
EXP-3	05/27/99	GTI	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	08/10/99	Alton Geoscience	<500	<1,000	4.0	6.2	<1	3.4	<0.50	<1	----	----	----	----
EXP-3	09/23/99	Secor	<300	----	<0.50	<1	<1	<1	<0.50	<1	----	----	----	----
EXP-3	10/12/99	Secor	<300	----	<0.50	<1	<1	<1	<0.50	<1	----	----	----	----
EXP-3	11/18/99	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	11/19/99	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	12/21/99	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	01/20/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	02/28/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	03/28/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	04/20/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	05/17/00	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	05/18/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	06/30/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	08/28/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	11/30/00	IT Corporation	<300	----	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	02/06/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	05/08/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	05/09/01	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	09/19/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	11/07/01	IT Corporation	<300	----	0.80	0.60	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	11/07/01	IT Corporation	<300	----	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	01/30/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	04/11/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	04/12/02	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	07/30/02	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	10/22/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<1	----	----	----	----
EXP-3	10/23/02	GTI	<300	----	<0.50	<1	<1	<1	<0.50	<1	----	----	----	----
EXP-3	01/29/03	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	04/08/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	04/11/03	GTI	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	07/30/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	10/07/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	10/10/03	BT for Parsons	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	01/29/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	04/20/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	04/22/04	BT for Parsons	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-3	07/19/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	07/21/04	BT for Parsons	120	----	<0.50	<0.50	<0.50	<0.50	----	<0.50	----	----	----	----
EXP-3	11/03/04	BT for Parsons	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-3	02/02/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	05/04/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	08/01/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	11/02/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	02/27/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	05/02/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017

Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Xylenes	1,2-DCA	MTBE	TBA	DIPE	ETBE	TAME
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
EXP-3	05/05/06	BT for Parsons	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-3	09/18/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	12/05/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	12/06/06	BT for Parsons	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-3	03/13/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	05/04/07	BT for Parsons	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	05/04/07	Secor	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-3	08/30/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	11/15/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	11/16/07	BT for Parsons	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-3	02/07/08	BT for Parsons	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-3	02/20/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	04/16/08	BT for Parsons	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-3	04/16/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	08/14/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	10/14/08	Stantec	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-3	10/15/08	BT for Parsons	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-3	02/24/09	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	----	----	----
EXP-3	04/22/09	BT for Parsons	<100	----	<0.50	3.4	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-3	04/23/09	Blaine Tech for AMEC	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-3	07/20/09	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<2
EXP-3	07/20/09	Blaine Tech for AMEC	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<1
EXP-3	10/19/09	Blaine Tech for DESC	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-3	10/19/09	BT for Parsons	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-3	01/11/10	Blaine Tech for DESC	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-3	03/15/10	BT for Parsons	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-3	04/12/10	Blaine Tech for DESC	----	----	0.31 J	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-3	05/25/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-3	07/12/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-3	10/04/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	0.74	<10	<1	<1	<1
EXP-3	10/04/10	BT for Parsons	----	----	<0.50	----	----	----	<0.50	0.68	<10	----	----	----
EXP-3	01/10/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	0.73	0.95	<10	<1	<1	<1
EXP-3	01/10/11	BT for Parsons	<100	----	<0.50	<0.50	<0.50	<0.50	0.64	1.0	<10	<2	<2	<2
EXP-3	04/11/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	1.3	0.99	<10	<1	<1	<1
EXP-3	04/11/11	BT for Parsons	<100	----	<0.50	<0.50	<0.50	<0.50	1.3	1.1	<10	<2	<2	<2
EXP-3	07/12/11	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	0.61	<0.50	<10	<1	<1	<1
EXP-3	07/12/11	Parsons	<100	----	<0.50	<0.50	<0.50	<0.50	0.62	0.45 J	<10	<2	<2	<2
EXP-3	10/10/11	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-3	10/10/11	Parsons	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	8.7 J	<2	<2	<2
EXP-3	01/09/12	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	0.66	<10	<1	<1	<1
EXP-3	01/09/12	Parsons	<100	----	<0.50	<0.50	<0.50	<0.50	0.81	0.63	<10	<2	<2	<2
EXP-3	04/16/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	0.58	<0.50	<10	<1	<1	<1
EXP-3	04/16/12	Parsons	<100	----	<0.50	<0.50	<0.50	<0.50	0.54	0.48 J	<10	<2	<2	<2
EXP-3	07/09/12	CHHL	<50	190	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-3	07/09/12	Parsons	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	9.5 J	<2	<2	<2
EXP-3	08/29/12	CHHL	----	<50	----	----	----	----	----	----	----	----	----	----
EXP-3	10/15/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-3	10/15/12	Parsons	<100	----	<0.50	<0.50	<0.50	<0.50	0.45 J	<0.50	<10	<2	<2	<2
EXP-3	01/14/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.58	<10	<1	<1	<1
EXP-3	01/14/13	Parsons	<100	<100	<0.50	<0.50	<0.50	<0.50	0.74	0.34 J	<10	<2	<2	<2
EXP-3	04/08/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-3	04/08/13	Parsons	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
EXP-3	10/07/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-3	10/07/13	Parsons	<100	<100	<0.50	<0.50	<0.50	<0.50	0.36 J	<0.50	<10	<2	<2	<2
EXP-3	04/14/14	CHHL	<50	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-3	04/14/14	Parsons	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-3	10/28/14	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
EXP-3	10/28/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	0.52	<0.50	<10	<1.0	<1.0	<1.0
EXP-3	04/23/15	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
EXP-3	04/23/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
EXP-3	10/20/15	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<1.5	<2.0	<2.0
EXP-3	10/20/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
EXP-3	04/12/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
EXP-3	04/12/16	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
EXP-3	10/04/16	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
EXP-3	10/04/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
EXP-3	04/18/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	0.53	<0.50	<10	<1.0	<1.0	<1.0
EXP-3	04/18/17	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
EXP-3	10/04/17	SGI	<100	160	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
EXP-3	10/04/17	BT for CH2MHill	<50	100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
EXP-3	10/25/17	SGI	----	<100	----	----	----	----	----	----	----	----	----	----
EXP-4	02/03/99	Alton Geoscience	<500	<500	<0.50	<0.50	<0.50	<1	<1	<0.50	----	----	----	----
EXP-4	05/06/99	Alton Geoscience	<500	<500	1.3	4.1	<0.50	1.7	<1	<0.50	----	----	----	----
EXP-4	07/21/99	Alton Geoscience	<50	----	<0.50	<0.50	<0.50	<0.50	<1	<0.50	----	----	----	----
EXP-4	08/10/99	Alton Geoscience	<500	<1,000	50	80	7.7	44	2.1	4.2	----	----	----	----
EXP-4	09/23/99	Secor	<300	----	<0.50	<1	<1	<1	<0.50	1.2	----	----	----	----
EXP-4	09/23/99	Secor	<300	----	<0.50	<1	<1	<1	<0.50	<1	----	----	----	----
EXP-4	09/23/99	Secor	<300	----	<0.50	<1	<1	<1	<0.50	<1	----	----	----	----
EXP-4	10/12/99	Secor	<300	----	<0.50	<1	<1	<1	<0.50	<1	----	----	----	----
EXP-4	11/19/99	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	0.60	----	----	----	----
EXP-4	12/21/99	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-4	12/21/99	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-4	01/20/00	Secor	<300	----	<0.50	<0.50	<0.50	0.50	<0.50	<0.50	----	----	----	----
EXP-4	02/28/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-4	03/28/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-4	04/20/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-4	05/18/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-4	06/30/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-4	08/28/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-4	11/30/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-4	02/06/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-4	05/08/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-4	09/18/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-4	11/07/01	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-4	01/30/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-4	04/11/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-4	10/24/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-4	10/07/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-4	05/05/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-4	05/05/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-4	09/20/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-4	05/01/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-4	04/18/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-4	04/21/09	Blaine Tech for AMEC	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
EXP-4	07/20/09	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-4	10/19/09	BT for Parsons	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-4	05/24/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-4	04/12/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-4	04/17/12	CH2M Hill	<50	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-4	04/09/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-4	10/08/13	CHHL	<50	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-4	04/15/14	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-4	10/28/14	BT for CH2MHill	<50	63 HD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
EXP-4	04/22/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
EXP-4	10/21/15	BT for CH2MHill	<50	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
EXP-4	04/12/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
EXP-4	10/04/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
EXP-4	04/19/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
EXP-4	10/3/2017	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
EXP-5	11/11/98	Alton Geoscience	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	02/03/99	Alton Geoscience	<500	<500	<0.50	<0.50	<0.50	<1	<1	<0.50	----	----	----	----
EXP-5	05/05/99	Alton Geoscience	<500	<500	7.6	3.9	1.4	7.4	<1	140	----	----	----	----
EXP-5	07/21/99	Alton Geoscience	<50	----	<0.50	<0.50	<0.50	<0.50	<1	11	----	----	----	----
EXP-5	08/10/99	Alton Geoscience	<500	<1,000	21	37	4.3	22	<0.50	2.4	----	----	----	----
EXP-5	09/23/99	Secor	<300	----	<0.50	<1	<1	<1	<0.50	<1	----	----	----	----
EXP-5	09/23/99	Secor	<300	----	<0.50	<1	<1	<1	<0.50	<1	----	----	----	----
EXP-5	09/23/99	Secor	<300	----	<0.50	<1	<1	<1	<0.50	<1	----	----	----	----
EXP-5	10/12/99	Secor	<300	----	<0.50	<1	<1	<1	<0.50	<1	----	----	----	----
EXP-5	11/19/99	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	12/21/99	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	01/20/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	02/28/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	03/28/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	04/20/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	05/17/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	06/30/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	08/28/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	11/29/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	02/06/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	05/08/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	09/19/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	11/07/01	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	01/30/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	04/11/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	07/30/02	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	10/24/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	01/28/03	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	04/08/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	07/30/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	10/07/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	01/29/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	04/21/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	07/20/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	11/04/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	02/03/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	05/04/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (ug/L)	TPH-d (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Xylenes (ug/L)	1,2-DCA (ug/L)	MTBE (ug/L)	TBA (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)
EXP-5	08/03/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	11/01/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	02/28/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	05/05/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	09/19/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	12/07/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	03/13/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	05/03/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	08/28/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	11/15/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	02/20/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	04/18/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	08/14/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	10/15/08	Stantec	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
EXP-5	02/23/09	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	----	----	----
EXP-5	04/22/09	Blaine Tech for AMEC	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-5	07/21/09	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-5	10/19/09	BT for Parsons	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-5	03/15/10	BT for Parsons	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-5	05/25/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-5	07/12/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-5	10/04/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-5	01/10/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-5	04/11/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-5	07/11/11	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-5	10/10/11	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-5	01/09/12	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-5	04/17/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-5	07/09/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-5	10/16/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-5	01/14/13	CHHL	<50	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-5	04/09/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-5	10/09/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-5	04/15/14	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-5	10/28/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
EXP-5	04/23/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
EXP-5	10/21/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
EXP-5	04/12/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
EXP-5	10/04/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
EXP-5	04/19/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
EXP-5	04/19/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
EXP-5	10/03/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GB-21	01/24/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	----	<0.50	<10	<1	<1	<1
GB-21	01/24/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	----	<0.50	<10	<1	<1	<1
GB-21	01/24/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	----	<0.50	140	<1	<1	<1
GB-22	01/21/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	----	<0.50	<10	<1	<1	<1
GB-22	01/21/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	----	<0.50	<10	<1	<1	<1
GB-22	01/21/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	----	<0.50	110	<1	<1	<1
GB-23	01/21/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	----	<0.50	<10	<1	<1	<1
GB-23	01/21/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	----	<0.50	<10	<1	<1	<1
GB-23	01/21/11	Blaine Tech	<100	----	<0.50	<0.50	<0.50	<0.50	----	<0.50	2,400	<1	<1	<1
GMW-1	11/27/96	Terra Services	----	----	13,000	11,000	2,700	14,300	<50	<500	----	----	----	----

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 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Xylenes	1,2-DCA	MTBE	TBA	DIPE	ETBE	TAME
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
GMW-1	07/17/97	Terra Services	68,000	6,900	10,000	5,500	2,500	11,500	<30	<300	-----	-----	-----	-----
GMW-1	01/09/98	Terra Services	5,800	4,500	5,600	590	1,200	4,570	<30	<300	-----	-----	-----	-----
GMW-1	05/27/98	Terra Services	19,600	-----	4,360	466	930	2,279	<0.50	101	-----	-----	-----	-----
GMW-1	11/17/98	Alton Geoscience	4,260	-----	950	150	360	320	<50	<50	-----	-----	-----	-----
GMW-1	05/05/99	Alton Geoscience	<500	<500	1.9	8.4	0.58	2.9	<1	<0.50	-----	-----	-----	-----
GMW-1	11/17/99	Secor	23,000	-----	4,700	440	1,100	4,040	<5	71	-----	-----	-----	-----
GMW-1	05/16/00	Secor	14,000	-----	3,100	40	720	2,300	<25	50	-----	-----	-----	-----
GMW-1	11/30/00	Secor	14,000	-----	2,700	80	1,000	1,780	<0.50	33	-----	-----	-----	-----
GMW-1	05/09/01	Secor	1,000	-----	1,900	<13	530	468	<13	<13	-----	-----	-----	-----
GMW-1	11/06/01	Secor	11,000	-----	2,900	35	1,300	280	<0.50	27	-----	-----	-----	-----
GMW-1	04/10/02	Secor	7,600	-----	2,000	26	740	295	<10	18	-----	-----	-----	-----
GMW-1	10/23/02	Secor	830	-----	1,300	<5	330	111	<5	17	-----	-----	-----	-----
GMW-1	03/11/03	Geomatrix	340	-----	130	<0.50	30	6.1	<0.50	0.68	-----	-----	-----	-----
GMW-1	04/08/03	Secor	4,500	-----	2,200	<10	240	142	<20	25	-----	-----	-----	-----
GMW-1	08/01/03	Secor	4,000	-----	1,600	11	360	172	<20	14	-----	-----	-----	-----
GMW-1	10/06/03	Secor	7,400	-----	2,200	12	520	196	<20	13	-----	-----	-----	-----
GMW-1	01/27/04	Secor	4,400	-----	1,500	5.7	180	200	<10	12	-----	-----	-----	-----
GMW-1	04/22/04	Secor	9,100	-----	3,200	<20	270	160	<40	<20	-----	-----	-----	-----
GMW-1	07/19/04	Secor	6,000	-----	2,100	<10	90	70	<20	20	-----	-----	-----	-----
GMW-1	11/03/04	Secor	7,900	-----	3,500	<10	88	35	<20	18	-----	-----	-----	-----
GMW-1	02/02/05	Secor	2,100	-----	1,100	<5	18	29	<10	12	-----	-----	-----	-----
GMW-1	05/06/05	Secor	<200	-----	1.2	<1	<1	<1	<2	<1	-----	-----	-----	-----
GMW-1	08/01/05	Secor	<500	-----	<2.5	<2.5	<2.5	<2.5	<5	<2.5	-----	-----	-----	-----
GMW-1	11/02/05	Secor	<500	-----	<2.5	<2.5	<2.5	<2.5	<5	<2.5	-----	-----	-----	-----
GMW-1	02/27/06	Secor	<1000	-----	<5	<5	<5	<5	<10	<5	-----	-----	-----	-----
GMW-1	05/04/06	Secor	<500	-----	4.0	<2.5	<2.5	<2.5	<5	<2.5	-----	-----	-----	-----
GMW-1	09/18/06	Secor	<500	-----	<2.5	<2.5	<2.5	<2.5	<5	<2.5	-----	-----	-----	-----
GMW-1	12/06/06	Secor	<500	-----	<2.5	<2.5	<2.5	<2.5	<5	<2.5	-----	-----	-----	-----
GMW-1	03/13/07	Secor	<1000	-----	<5	<5	<5	<5	<10	<5	-----	-----	-----	-----
GMW-1	05/04/07	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-1	08/30/07	Secor	520	-----	<1.5	<1.5	<1.5	<1.5	<3	<1.5	-----	-----	-----	-----
GMW-1	11/14/07	Secor	140	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-1	02/20/08	Secor	<200	-----	41	<1	4.9	4.8	<2	<1	-----	-----	-----	-----
GMW-1	04/16/08	Secor	<200	-----	14	<1	<1	<1	<2	<1	-----	-----	-----	-----
GMW-1	10/17/08	Stantec	1,600	-----	52	1.6	58	250	<2	<1	-----	-----	-----	-----
GMW-1	04/20/09	Blaine Tech for AMEC	600	-----	63	1.2	25	16	<2	<1	<20	<2	<2	<2
GMW-1	10/22/09	BT for Parsons	330	-----	1.5	<1	<1	<1	<2	<1	<20	<2	<2	<2
GMW-1	05/27/10	Blaine Tech	900	-----	55	4.9	46	<1	<2	<1	<20	<2	<2	<2
GMW-1	10/07/10	Blaine Tech	400	-----	<1	<1	<1	<1	<2	<1	<20	<2	<2	<2
GMW-1	04/14/11	Blaine Tech	230	-----	<1	<1	<1	<1	<2	<1	<20	<2	<2	<2
GMW-1	10/12/11	CH2M Hill	230	-----	<1	<1	<1	<1	<2	<1	<20	<2	<2	<2
GMW-1	04/19/12	CH2M Hill	<200	850	<1	<1	<1	<1	<2	<1	<20	<2	<2	<2
GMW-1	10/17/12	CHHL	<500	880	<2.5	<2.5	<2.5	<2.5	<5	<2.5	<50	<5	<5	<5
GMW-1	04/11/13	CHHL	<500	470	2.8	<2.5	<2.5	<2.5	<5	<2.5	<50	<5	<5	<5
GMW-1	10/10/13	CHHL	<200	270	<1	<1	<1	<1	<2	1.7	29	<2	<2	<2
GMW-1	04/16/14	CHHL	89	77	<0.50	<0.50	<0.50	<0.50	<0.50	2.2	11	<1	<1	<1
GMW-1	10/30/14	BT for CH2MHill	70	130	<0.50	<0.50	<0.50	<0.50	<0.50	0.94	<10	<1.0	<1.0	<1.0
GMW-1	04/23/15	BT for CH2MHill	58	60	<0.50	<0.50	<0.50	<0.50	<0.50	1.5	16	<1.0	<1.0	<1.0
GMW-1	10/23/15	BT for CH2MHill	110	140 HD	<0.50	<0.50	<0.50	<0.50	<0.50	1.9	13	<1.0	<1.0	<1.0
GMW-1	04/14/16	BT for CH2MHill	55	70	<0.50	<0.50	<0.50	7.7	<0.50	2.9	22	<1.0	<1.0	<1.0
GMW-1	10/06/16	BT for CH2MHill	57	150	0.56	<0.50	<0.50	2.9	<0.50	2.0	13	<1.0	<1.0	<1.0
GMW-2	11/21/96	Terra Services	-----	-----	6,500	44	700	960	<30	4,800	-----	-----	-----	-----

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Xylenes	1,2-DCA	MTBE	TBA	DIPE	ETBE	TAME
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
GMW-2	07/15/97	Terra Services	350	<500	59	1.2	41	20	<0.50	<5	-----	-----	-----	-----
GMW-2	01/08/98	Terra Services	<100	<500	4.1	0.79	1.1	1.1	2.7	220	-----	-----	-----	-----
GMW-2	05/27/98	Terra Services	<300	-----	<0.50	58	0.80	0.50	<0.50	21	-----	-----	-----	-----
GMW-2	11/17/98	Alton Geoscience	<300	-----	0.88	2.1	0.90	4.8	<0.50	4.4	-----	-----	-----	-----
GMW-2	05/07/99	Alton Geoscience	<500	<500	8.2	<0.50	<0.50	0.94	<1	42	-----	-----	-----	-----
GMW-2	11/17/99	Secor	<300	-----	0.70	<0.50	<0.50	<0.50	<0.50	66	-----	-----	-----	-----
GMW-2	05/16/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	0.60	<0.50	-----	-----	-----	-----
GMW-2	11/30/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	1.0	140	-----	-----	-----	-----
GMW-2	05/08/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	0.60	51	-----	-----	-----	-----
GMW-2	11/06/01	Secor	<300	-----	7.8	<0.50	<0.50	0.70	1.2	140	-----	-----	-----	-----
GMW-2	04/09/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	240	-----	-----	-----	-----
GMW-2	10/23/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	260	-----	-----	-----	-----
GMW-2	10/07/03	Secor	91	-----	<0.50	<0.50	<0.50	<0.50	<0.50	81	-----	-----	-----	-----
GMW-2	05/06/05	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-2	05/09/06	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	4.2	-----	-----	-----	-----
GMW-2	05/02/07	Secor	160	-----	73	<0.50	<0.50	2.3	<1	5.8	-----	-----	-----	-----
GMW-2	04/17/08	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-2	04/20/09	Blaine Tech for AMEC	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-2	05/26/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-3	11/25/96	Terra Services	-----	-----	<5	<5	<0.50	<1.5	<5	<50	-----	-----	-----	-----
GMW-3	07/11/97	Terra Services	<100	<500	<0.50	<0.50	<0.50	<1	<0.50	<5	-----	-----	-----	-----
GMW-3	01/05/98	Terra Services	<100	<500	<0.50	<0.50	<0.50	<1.5	<0.50	<5	-----	-----	-----	-----
GMW-3	05/26/98	Terra Services	-----	-----	<0.50	<0.50	<0.50	0.90	<0.50	<0.50	-----	-----	-----	-----
GMW-3	11/11/98	Alton Geoscience	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	1.7	-----	-----	-----	-----
GMW-3	05/07/99	Alton Geoscience	<500	<500	1.1	4.4	<0.50	1.9	<1	<0.50	-----	-----	-----	-----
GMW-3	11/17/99	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-3	05/17/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-3	11/29/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-3	05/10/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-3	11/06/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-3	04/10/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-3	10/22/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	-----	-----	-----	-----
GMW-3	01/29/03	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.96	-----	-----	-----	-----
GMW-3	04/08/03	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-3	07/30/03	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-3	10/06/03	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-3	01/27/04	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-3	04/21/04	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-3	07/19/04	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-3	11/02/04	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-3	05/04/05	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-3	11/03/05	Secor	120	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-3	02/27/06	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-3	05/02/06	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-3	12/05/06	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-3	05/04/07	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-3	11/14/07	Secor	<200	-----	<1	<1	<1	<1	<2	<1	-----	-----	-----	-----
GMW-3	04/16/08	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<1	<0.50	-----	-----	-----	-----
GMW-3	04/16/08	Secor	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-3	10/14/08	Stantec	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-3	04/20/09	Blaine Tech for AMEC	<50	-----	0.63	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-3	10/21/09	BT for Parsons	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1

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 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-3	05/26/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-3	10/06/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-3	04/12/11	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-3	10/11/11	CH2M Hill	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-3	04/18/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-3	06/14/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-3	04/16/14	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.52	<10	<1	<1	<1
GMW-3	10/29/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-3	04/21/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-3	10/22/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-4	07/15/97	Terra Services	1,300	2,100	38	<0.50	35	45	<0.50	<5	-----	-----	-----	-----
GMW-4	01/08/98	Terra Services	380	530	14	1.2	19	1.6	<5	<5	-----	-----	-----	-----
GMW-4	05/26/98	Terra Services	2,300	-----	42	<0.30	69	87	<2.5	<2.5	-----	-----	-----	-----
GMW-4	11/18/99	Secor	1,600	-----	67	<0.50	51	24	<0.50	<0.50	-----	-----	-----	-----
GMW-4	05/19/00	Secor	2,500	-----	48	0.50	29	37	<0.50	<0.50	-----	-----	-----	-----
GMW-4	04/10/03	Secor	500	-----	8.0	<0.50	8.2	26	<0.50	<0.50	-----	-----	-----	-----
GMW-4	05/04/07	Secor	2,000	-----	110	<1	27	12	<2	<1	-----	-----	-----	-----
GMW-4	04/16/08	BT for Parsons	16,000	-----	270	<2.5	110	157	<2.5	<2.5	<50	<10	<10	<10
GMW-4	04/17/08	Secor	4,400	-----	290	<5	89	102	<10	<5	-----	-----	-----	-----
GMW-4	11/21/08	Stantec	4,900	-----	260	<2.5	45	28	<5	<2.5	-----	-----	-----	-----
GMW-4	04/23/09	Blaine Tech for AMEC	2,500	-----	120	<0.50	12	8.6	<1	3.9	<10	<1	<1	<1
GMW-4	05/27/10	Blaine Tech	2,200	-----	170	1.1	6.3	10	<2	<1	<20	<2	<2	<2
GMW-4	10/05/10	Blaine Tech	1,300	-----	8.2	<1	2.8	2.2	<2	3.2	22	<2	<2	<2
GMW-4	04/14/11	Blaine Tech	2,800	-----	130	<1	2.0	3.4	<2	<1	<20	<2	<2	<2
GMW-4	10/12/11	CH2M Hill	1,200	-----	62	<1	1.4	<1	<2	3.8	<20	<2	<2	<2
GMW-4	04/20/12	CH2M Hill	4,600	25,000	170	<10	<10	<10	<20	<10	<200	<20	<20	<20
GMW-4	10/19/12	CHHL	1,300	8,100	36	<2.5	<2.5	<2.5	<5	<2.5	<50	<5	<5	<5
GMW-4	04/12/13	CHHL	2,100	8,000	56	<4	<4	<4	<8	<4	<80	<8	<8	<8
GMW-4	10/11/13	CHHL	1,800	2,400	24	<0.50	1.1	1.7	<1	2.2	<10	<1	<1	<1
GMW-4R	04/18/17	BT for CH2MHill	84	70	6.1	<0.50	2.2	1.2	<0.50	0.74	<10	<1.0	<1.0	<1.0
GMW-4R	10/05/17	BT for CH2MHill	<50	70	1.3	<0.50	<0.50	<0.50	<0.50	0.56	<10	<1.0	<1.0	<1.0
DUP-3 (GMW-4R)	10/05/17	BT for CH2MHill	51	85	1.3	<0.50	<0.50	<0.50	<0.50	0.66	<10	<1.0	<1.0	<1.0
GMW-5	11/27/96	GSI	<50	<500	<0.50	<0.50	<0.50	<1	-----	-----	-----	-----	-----	-----
GMW-5	07/11/97	GTI	<50	<50	<0.50	<1	<1	<2	-----	-----	-----	-----	-----	-----
GMW-5	01/06/98	GTI	<500	<100	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
GMW-5	05/18/98	BBC	-----	-----	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
GMW-5	11/04/98	GTI	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
GMW-5	05/27/99	GTI	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
GMW-5	11/18/99	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
GMW-5	05/16/00	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
GMW-5	11/29/00	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	<5	-----	-----	-----	-----
GMW-5	05/09/01	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	<5	-----	-----	-----	-----
GMW-5	11/07/01	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	<5	-----	-----	-----	-----
GMW-5	04/10/02	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	<5	-----	-----	-----	-----
GMW-5	10/08/13	Parsons	<100	120 HD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-5	04/15/14	Parsons	<100	<95	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-5	10/27/14	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-5	04/21/15	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-6	11/27/96	GSI	5,300	<500	330	<12	320	300	-----	-----	-----	-----	-----	-----
GMW-6	07/09/97	GTI	<50	<50	2.7	<1	1.4	<2	<5	-----	-----	-----	-----	-----
GMW-6	01/07/98	GTI	<500	<100	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
GMW-6	05/21/98	BBC	<300	-----	<0.50	<0.50	<0.50	<1	<0.50	<0.50	-----	-----	-----	-----

**APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Xylenes	1,2-DCA	MTBE	TBA	DIPE	ETBE	TAME
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
GMW-6	11/05/98	GTI	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
GMW-6	05/27/99	GTI	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
GMW-6	11/18/99	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
GMW-6	05/16/00	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
GMW-6	11/29/00	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	<5	-----	-----	-----	-----
GMW-6	05/09/01	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	<5	-----	-----	-----	-----
GMW-6	11/07/01	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	<5	-----	-----	-----	-----
GMW-6	04/10/02	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	<5	-----	-----	-----	-----
GMW-6	10/23/02	GTI	<300	-----	<0.30	<0.30	<0.30	<0.30	-----	<5	-----	-----	-----	-----
GMW-6	04/10/03	GTI	-----	-----	<1	<1	<1	<2	-----	<3	-----	-----	-----	-----
GMW-6	10/08/03	BT for Parsons	-----	-----	<0.30	<0.30	<0.30	<0.30	-----	<5	-----	-----	-----	-----
GMW-6	04/22/04	BT for Parsons	-----	-----	0.41	<0.30	<0.30	<0.30	-----	<5	-----	-----	-----	-----
GMW-6	11/06/04	BT for Parsons	-----	-----	<0.30	<0.30	<0.30	<0.30	-----	<5	-----	-----	-----	-----
GMW-6	05/06/05	BT for Parsons	-----	-----	<0.30	0.46	<0.30	<0.30	-----	<5	-----	-----	-----	-----
GMW-6	11/08/05	BT for Parsons	-----	-----	<0.30	<0.30	<0.30	<0.30	-----	<5	-----	-----	-----	-----
GMW-6	05/03/06	BT for Parsons	-----	-----	<0.30	<0.30	<0.30	<0.30	-----	<5	-----	-----	-----	-----
GMW-6	12/08/06	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	1.3	-----	<5	-----	-----	-----	-----
GMW-6	05/02/07	BT for Parsons	-----	-----	0.58	0.54	<0.50	<1	-----	<5	-----	-----	-----	-----
GMW-6	08/31/07	BT for Parsons	3,400	-----	400	96	45	188	<0.50	<0.50	<10	<2	<2	<2
GMW-6	11/14/07	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<1	-----	<5	-----	-----	-----	-----
GMW-6	11/15/07	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-6	04/16/08	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<1	-----	<5	-----	-----	-----	-----
GMW-6	10/15/08	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	<10	<2	<2	<2
GMW-6	04/21/09	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	-----	43	-----	-----	-----	-----
GMW-6	07/21/09	Blaine Tech for AMEC	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-6	10/20/09	Blaine Tech for DESC	-----	-----	1.5	<0.50	<0.50	<0.50	<0.50	350	<10	<2	<2	0.51 J
GMW-6	04/12/10	Blaine Tech for DESC	-----	-----	<0.50	<0.50	<0.50	<0.50	-----	7.2	<10	<2	<2	<2
GMW-6	10/05/10	BT for Parsons	-----	-----	0.35 J	-----	-----	-----	<0.50	130	210	-----	-----	-----
GMW-6	02/24/11	Blaine Tech	<50	-----	0.53	<0.50	<0.50	<0.50	<0.50	9.6	120	<1	<1	<1
GMW-6	04/13/11	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-6	10/10/11	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	1.8	220	<2	<2	<2
GMW-6	04/19/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.34 J	<10	<2	<2	<2
GMW-6	10/15/12	Parsons	-----	-----	<0.50	<0.50	0.17 J	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-6	04/10/13	Parsons	-----	110 b	<0.50	<0.50	<0.50	<0.50	<0.50	0.44 J	<10	<2	<2	<2
GMW-6	10/08/13	Parsons	<100	250 HD	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	57	<2	<2	<2
GMW-6	04/15/14	Parsons	<100	<95	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-6	10/27/14	SGI	<100	140	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-6	04/28/15	SGI	<100	<100	1.2	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-6	04/28/15	SGI	<100	<100	0.89	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-6	10/22/15	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-6	04/12/16	SGI	<100	<100	0.89	<0.50	2.3	7.6	<0.50	<1.0	<10	<2.0	<2.0	<2.0
DUP-2 (GMW 6)	04/12/16	SGI	<100	<100	0.92	<0.50	2.2	7.2	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-6	10/07/16	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-6	04/18/17	SGI	<100	<100	<0.50	<0.50	<0.50	<1	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-6	10/03/17	SGI	<100	270	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
DUP-2 (GMW-6)	10/03/17	SGI	<100	250	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-7	05/21/98	BBC	-----	-----	<0.50	<0.50	<0.50	<1	<0.50	<0.50	-----	-----	-----	-----
GMW-7	12/01/00	IT Corporation	520,000	-----	4,800	970	620	12,000	-----	<2500	-----	-----	-----	-----
GMW-7	04/30/15	SGI	610	28,000	8.1	<0.50	<0.50	<1.5	<0.50	<2.0	15	<2.0	<2.0	<2.0
GMW-7	10/11/16	SGI	560	2,000	7.5	<0.50	<0.50	<1.5	<0.50	1.4	47	<2.0	<2.0	<2.0
GMW-7	10/10/17	SGI	240	1,400	2.2	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-8	11/21/96	Terra Services	-----	-----	<0.50	<0.50	<0.50	<1.5	12	<5	-----	-----	-----	-----

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017

Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-8	07/11/97	Terra Services	<100	<500	<0.50	<0.50	<0.50	<1	1.7	<5	----	----	----	----
GMW-8	01/02/98	Terra Services	<100	<500	<0.50	<0.50	<0.50	<1.5	5.0	<5	----	----	----	----
GMW-8	05/26/98	Terra Services	----	----	<0.30	<0.30	<0.50	<1	<0.50	<0.50	----	----	----	----
GMW-8	11/06/98	Alton Geoscience	<300	----	<0.50	<0.50	<0.50	<0.50	8.6	0.90	----	----	----	----
GMW-8	05/05/99	Alton Geoscience	<500	<500	2.0	7.2	0.57	3.0	<1	<0.50	----	----	----	----
GMW-8	05/07/99	Alton Geoscience	<500	<500	<0.50	1.7	<0.50	0.51	4.4	<0.50	----	----	----	----
GMW-8	11/16/99	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	4.6	<0.50	----	----	----	----
GMW-8	05/19/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	15	<0.50	----	----	----	----
GMW-8	11/29/00	Secor	<300	----	1.0	0.90	<0.50	1.5	10	2.9	----	----	----	----
GMW-8	05/09/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-8	11/07/01	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-8	04/11/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	2.5	2.4	----	----	----	----
GMW-8	10/24/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-8	04/10/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	0.62	----	----	----	----
GMW-8	10/08/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	0.52	<0.50	----	----	----	----
GMW-8	04/21/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-8	11/05/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-8	05/05/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-8	11/03/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-8	05/03/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	0.78	----	----	----	----
GMW-8	12/07/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	7.6	----	----	----	----
GMW-8	05/05/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	6.5	----	----	----	----
GMW-8	11/14/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-8	04/17/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-8	10/21/08	Stantec	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-8	04/22/09	Blaine Tech for AMEC	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-8	10/19/09	BT for Parsons	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	1.5	<10	<1	<1	<1
GMW-8	05/26/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-8	10/06/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-8	06/14/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	1.4	0.59	<10	<1	<1	<1
GMW-8	04/15/14	CHHL	<100	93	<0.50	<0.50	<0.50	<0.50	3.5	0.80	<10	<1	<1	<1
GMW-8	10/29/14	BT for CH2MHill	<100	65 HD	<0.50	<0.50	<0.50	<0.50	3.3	1.1	<10	<1.0	<1.0	<1.0
GMW-8	04/22/15	BT for CH2MHill	<50	60	<0.50	<0.50	<0.50	<0.50	3.3	1.7	<10	<1.0	<1.0	<1.0
GMW-8	10/22/15	BT for CH2MHill	<100	110 HD	<0.50	<0.50	<0.50	<0.50	4.6	1.5	<10	<1.0	<1.0	<1.0
GMW-8	04/15/16	BT for CH2MHill	<50	230	<0.50	<0.50	<0.50	<0.50	4.3	1.4	<10	<1.0	<1.0	<1.0
GMW-8	10/05/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	1.9	0.55	<10	<1.0	<1.0	<1.0
GMW-8	04/18/17	BT for CH2MHill	<50	170	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-8	10/05/17	BT for CH2MHill	<50	270	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-9	10/07/10	Blaine Tech	6,800	----	890	62	120	650	<10	56	1,600	44	<10	<10
GMW-9	04/13/11	Blaine Tech	54,000	----	20,000	290	970	3,800	<200	3,600	<2,000	<200	<200	<200
GMW-9	10/13/11	CH2M Hill	61,000	----	18,000	6,500	760	3,400	<200	2,100	<2,000	<200	<200	<200
GMW-9	10/06/16	BT for CH2MHill	67	140	4.6	<0.50	<0.50	<0.50	0.64	0.84	110	13	<1.0	<1.0
GMW-9	04/21/17	BT for CH2MHill	750	760	9.2	0.98	0.71	20	<1	1.9	18	5.5	<1.0	<1.0
GMW-9	10/05/17	BT for CH2MHill	<50	100	<0.50	<0.50	<0.50	<0.50	0.56	0.62	83	4.7	<1.0	<1.0
GMW-10	10/08/10	Blaine Tech	4,800	----	360	<2.5	87	14	<5	<2.5	120	<5	<5	<5
GMW-10	04/14/11	Blaine Tech	5,700	----	370	2.0	93	7.9	<3	<1.5	100	<3	<3	<3
GMW-10	10/14/11	CH2M Hill	3,700	----	580	3.3	75	7.8	<5	<2.5	590	<5	<5	<5
GMW-10	04/27/12	CH2M Hill	3,000	3,100	360	<2	15	3.2	<4	<2	79	<4	<4	<4
GMW-10	10/19/12	CHHL	10,000	7,500	1,300	380	270	1,400	<10	<5	<100	<10	<10	<10
GMW-10	04/12/13	CHHL	14,000	100,000	210	65	48	310	<20	<10	<200	<20	<20	<20
GMW-10	10/11/13	CHHL	13,000	9,500	1,100	800	350	1,900	<20	<10	<200	<20	<20	<20
GMW-10	10/28/15	BT for CH2MHill	27,000	41,000 HD	1,100	2,400	730	3,800	<20	<10	<200	<20	<20	<20

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-11	11/21/96	Terra Services	-----	-----	<0.50	<0.50	<0.50	<1.5	<0.50	<5	-----	-----	-----	-----
GMW-11	07/10/97	Terra Services	220	2,500	<0.50	4.0	0.90	<0.50	<0.50	<5	-----	-----	-----	-----
GMW-11	01/07/98	Terra Services	4,000	220,000	<0.50	<0.50	<0.50	1.6	<0.50	<5	-----	-----	-----	-----
GMW-11	05/20/98	Terra Services	42,400	-----	<0.30	<0.30	<25	<50	<2.5	<0.50	-----	-----	-----	-----
GMW-11	11/17/98	Alton Geoscience	6,230	-----	<5	6.0	<5	11	<5	24	-----	-----	-----	-----
GMW-11	05/07/99	Alton Geoscience	1,900	1,900	0.61	2.1	<0.50	0.62	<1	<0.50	-----	-----	-----	-----
GMW-11	11/16/99	Secor	1,200	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-11	05/19/00	Secor	790	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-11	11/30/00	Secor	1,600	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-11	05/10/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-11	11/07/01	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-11	04/11/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-11	04/15/16	SGL	<100	440	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
DUP-8 (GMW 11)	04/15/16	SGL	<100	480	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-12	11/27/96	GSI	99	<500	<0.50	<0.50	<0.50	<1	<0.50	<1	-----	-----	-----	-----
GMW-12	07/10/97	GTI	110	8,600	<5	<5	<5	<5	<5	<5	-----	-----	-----	-----
GMW-12	01/06/98	GTI	<500	1,000	<0.50	1.6	<0.50	<1	<0.50	<0.50	-----	-----	-----	-----
GMW-12	05/21/98	BBC	<300	-----	<0.30	<0.30	<0.50	<1	<0.50	<0.50	-----	-----	-----	-----
GMW-12	11/05/98	GTI	<300	-----	4.5	<0.50	3.0	1.7	<0.50	<0.50	-----	-----	-----	-----
GMW-12	05/27/99	GTI	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-12	11/18/99	IT Corporation	<300	-----	<0.50	<1	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-12	05/17/00	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-12	11/30/00	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-12	05/09/01	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-12	11/07/01	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-12	04/11/02	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-12	10/23/02	GTI	<300	-----	<0.50	<1	<1	<1	<0.50	<1	-----	-----	-----	-----
GMW-12	04/10/03	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-12	04/14/03	GTI	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-12	10/10/03	BT for Parsons	<100	-----	<0.50	<0.50	0.56	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-12	04/21/04	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	0.62	<0.50	<0.50	<10	<2	<2	<2
GMW-12	11/04/04	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-12	05/06/05	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-12	11/08/05	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-12	05/04/06	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-12	12/08/06	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-12	05/04/07	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-12	11/16/07	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-12	04/18/08	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-12	10/16/08	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-12	04/23/09	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-12	10/20/09	Blaine Tech for DESC	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.49 J	<10	<2	<2	<2
GMW-12	04/15/10	Blaine Tech for DESC	-----	-----	<0.50	<0.50	<0.50	<0.50	-----	<0.50	<10	<2	<2	<2
GMW-12	10/08/10	BT for Parsons	-----	-----	<0.50	-----	-----	-----	<0.50	<0.50	3.6 J	-----	-----	-----
GMW-12	04/11/11	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-12	10/10/11	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-12	04/16/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-12	10/15/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-12	04/09/13	Parsons	-----	650 b	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-12	10/08/13	Parsons	<100	700 HD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-12	04/16/14	Parsons	<100	1,200 HD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-12	10/29/14	SGL	<100	1,100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (ug/L)	TPH-d (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Xylenes (ug/L)	1,2-DCA (ug/L)	MTBE (ug/L)	TBA (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)
GMW-12	04/28/15	SGI	<100	960	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-12	04/28/15	SGI	<100	930	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-12	10/10/16	SGI	<100	1,400	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-12	04/21/17	SGI	<100	150	<0.50	<0.50	<0.50	<1	<0.50	<1.0	<10	<2.0	<2.0	<2.0
DUP-8 (GMW-12)	04/21/17	SGI	<100	150	<0.50	<0.50	<0.50	<1	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-12	10/04/17	SGI	<100	1,100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-13	11/21/96	Terra Services	-----	-----	3.2	<0.50	0.73	1.2	<0.50	<5	-----	-----	-----	-----
GMW-13	07/10/97	Terra Services	1,300	5,600	1.6	3.5	0.93	2.4	<0.50	<5	-----	-----	-----	-----
GMW-13	01/08/98	Terra Services	<100	<500	1.9	1.6	<0.50	<1.5	<0.50	<5	-----	-----	-----	-----
GMW-13	05/20/98	Terra Services	<300	-----	<0.30	<0.30	<25	0.80	<2.5	<0.50	-----	-----	-----	-----
GMW-13	11/12/98	Alton Geoscience	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-13	05/07/99	Alton Geoscience	<500	<500	<0.50	<0.50	<0.50	<0.50	<1	<0.50	-----	-----	-----	-----
GMW-13	11/17/99	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-13	05/17/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-13	11/30/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-13	05/10/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	2.6	-----	-----	-----	-----
GMW-13	11/06/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-13	02/01/02	Secor	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-13	04/10/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-13	10/22/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<1	-----	-----	-----	-----
GMW-13	04/09/03	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	3.1	-----	-----	-----	-----
GMW-13	10/06/03	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-13	04/20/04	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-13	11/02/04	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-13	05/04/05	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-13	11/01/05	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-13	05/02/06	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-13	12/05/06	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-13	05/04/07	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-13	11/14/07	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-13	04/16/08	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-13	10/17/08	Stantec	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-13	04/23/09	Blaine Tech for AMEC	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-13	10/19/09	BT for Parsons	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-13	10/23/09	Blaine Tech for DESC	<100	-----	<0.50	<0.50	<0.50	<0.50	23	9.5	<10	3.8	<2	<2
GMW-13	05/26/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-13	10/06/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-13	04/12/11	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-13	04/13/11	BT for Parsons	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
GMW-13	10/11/11	CH2M Hill	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-13	04/18/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-13	10/16/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-13	04/09/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-13	10/09/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-13	04/15/14	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-13	10/29/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-13	04/21/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-13	10/21/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-13	04/13/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-13	10/04/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-13	04/18/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-13	10/04/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0

**APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-14	05/07/99	Alton Geoscience	<500	<500	<0.50	<0.50	<0.50	<0.50	<1	<0.50	----	----	----	----
GMW-14	11/17/99	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-14	05/16/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-14	11/30/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-14	05/09/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-14	11/06/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-14	04/10/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-14	10/07/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-14	04/22/04	Secor	59	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-14	11/02/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-14	05/06/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-14	11/01/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-14	03/08/06	BT for Parsons	520	----	2.6	<0.50	<0.50	<0.50	0.64	4.0	21	<2	<2	<2
GMW-14	05/02/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-14	12/07/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-14	05/04/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-14	11/14/07	Secor	1,500	----	<2.5	<2.5	34	3.0	<5	<2.5	----	----	----	----
GMW-14	04/16/08	Secor	440	----	<0.50	<0.50	<0.50	<0.50	<1	<0.50	----	----	----	----
GMW-14	07/29/08	BT for Parsons	210	----	<0.50	<0.50	<0.50	<0.50	<0.50	2.2	18	<2	<2	<2
GMW-14	10/17/08	Stantec	210	----	<0.50	<0.50	<0.50	<0.50	<1	<0.50	----	----	----	----
GMW-14	04/23/09	Blaine Tech for AMEC	120	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-14	10/22/09	BT for Parsons	130	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	10	<1	<1	<1
GMW-14	04/16/10	BT for Parsons	-----	-----	160	<0.50	2.6	3.0	<0.50	13	15	<2	<2	0.79 J
GMW-14	10/07/10	Blaine Tech	160	----	<0.50	<0.50	<0.50	<0.50	<1	<0.50	<10	<1	<1	<1
GMW-14	04/13/11	Blaine Tech	<100	----	<0.50	<0.50	<0.50	<0.50	<1	<0.50	<10	<1	<1	<1
GMW-14	10/12/11	CH2M Hill	58	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-14	04/19/12	CH2M Hill	<50	130	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-14	10/17/12	CHHL	<50	150	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-14	04/11/13	CHHL	<50	110	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-14	10/10/13	CHHL	<50	110	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-14	04/16/14	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.64	16	<1	<1	<1
GMW-14	10/30/14	BT for CH2MHill	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.83	17	<1.0	<1.0	<1.0
GMW-14R	04/18/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.68	<10	<1.0	<1.0	<1.0
GMW-14R	10/05/17	BT for CH2MHill	<50	71	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-15	05/20/98	BBC	1,300	----	3.9	<0.30	7.4	6.4	-----	-----	-----	-----	-----	-----
GMW-15	11/05/98	GTI	512	----	1.8	<0.30	3.7	1.0	-----	-----	-----	-----	-----	-----
GMW-15	05/27/99	GTI	634	----	2.5	<0.30	5.3	2.0	-----	-----	-----	-----	-----	-----
GMW-15	11/18/99	IT Corporation	<300	----	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
GMW-15	05/16/00	IT Corporation	610	----	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
GMW-15	12/01/00	IT Corporation	450	----	<0.30	<0.30	<0.30	<0.60	-----	<5	-----	-----	-----	-----
GMW-15	05/10/01	IT Corporation	<300	----	<0.30	<0.30	<0.30	<0.60	-----	<5	-----	-----	-----	-----
GMW-15	11/07/01	IT Corporation	<300	----	<0.30	<0.30	<0.30	<0.60	-----	<5	-----	-----	-----	-----
GMW-15	04/10/02	IT Corporation	1,900	----	1.2	<0.30	1.6	3.8	-----	<5	-----	-----	-----	-----
GMW-15	10/23/02	GTI	840	----	0.58	<0.30	0.72	1.5	-----	<5	-----	-----	-----	-----
GMW-15	04/10/03	GTI	-----	-----	<1	<1	<1	<2	-----	<3	-----	-----	-----	-----
GMW-15	10/08/03	BT for Parsons	-----	-----	<0.30	<0.30	<0.30	<0.30	-----	<5	-----	-----	-----	-----
GMW-15	04/22/04	BT for Parsons	-----	-----	0.70	<0.30	<0.30	0.47	-----	<5	-----	-----	-----	-----
GMW-15	11/06/04	BT for Parsons	-----	-----	<0.30	<0.30	<0.30	<0.30	-----	<5	-----	-----	-----	-----
GMW-15	05/06/05	BT for Parsons	-----	-----	<0.30	0.47	<0.30	<0.30	-----	<5	-----	-----	-----	-----
GMW-15	11/08/05	BT for Parsons	-----	-----	<0.30	0.31	<0.30	<0.30	-----	<5	-----	-----	-----	-----
GMW-15	05/03/06	BT for Parsons	-----	-----	<0.30	<0.30	<0.30	<0.30	-----	<5	-----	-----	-----	-----
GMW-15	12/08/06	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<1	-----	<5	-----	-----	-----	-----

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-15	05/02/07	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	1.2	-----	<5	-----	-----	-----	-----
GMW-15	05/02/07	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<1	-----	<5	-----	-----	-----	-----
GMW-15	11/14/07	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<1	-----	<5	-----	-----	-----	-----
GMW-15	04/16/08	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<1	-----	<5	-----	-----	-----	-----
GMW-15	10/15/08	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-15	04/21/09	BT for Parsons	180	-----	<0.50	<0.50	<0.50	<0.50	-----	5.4	-----	-----	-----	-----
GMW-15	10/20/09	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	3.1	4.5 J	<2	<2	<2
GMW-15	04/15/10	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	-----	5.7	<10	<2	<2	<2
GMW-15	10/05/10	BT for Parsons	-----	-----	<0.50	-----	-----	-----	<0.50	<0.50	<10	-----	-----	-----
GMW-15	04/14/11	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-15	10/10/11	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-15	04/19/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-15	10/15/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	12	<10	<2	<2	<2
GMW-15	04/10/13	Parsons	-----	6200 b	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	<10	<2	<2	<2
GMW-15	10/08/13	Parsons	350 HD	4,600 HD	<0.50	<0.50	0.19 J	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-15	04/16/14	Parsons	250 HD	2,700 HD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-15	10/30/14	SGI	<100	1,900	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-15	04/28/15	SGI	<100	1,500	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-15	10/23/15	SGI	<100	1,300	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-15	04/14/16	SGI	<100	3,700	0.56	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-15	10/10/16	SGI	<100	2,400	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-15	04/21/17	SGI	<100	1,600	<0.50	<0.50	<0.50	<1	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-15	10/05/17	SGI	<100	2,000	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-16	11/21/96	GSI	<38	<500	<0.50	<0.50	0.80	<1.5	<0.50	-----	-----	-----	-----	-----
GMW-16	07/09/97	GTI	<50	110	5.7	<5	9.2	7.5	<5	<5	-----	-----	-----	-----
GMW-16	01/06/98	GTI	<500	<100	<0.50	<0.50	<0.50	<1	<0.50	<0.50	-----	-----	-----	-----
GMW-16	05/20/98	BBC	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
GMW-16	11/04/98	GTI	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
GMW-16	05/27/99	GTI	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
GMW-16	11/18/99	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
GMW-16	05/16/00	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
GMW-16	11/29/00	IT Corporation	<300	-----	0.64	1.2	0.85	3.2	-----	<5	-----	-----	-----	-----
GMW-16	05/10/01	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	<5	-----	-----	-----	-----
GMW-16	11/07/01	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	9.1	-----	-----	-----	-----
GMW-16	04/10/02	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	<5	-----	-----	-----	-----
GMW-16	10/23/02	GTI	<300	-----	<0.30	<0.30	<0.30	<0.30	-----	<5	-----	-----	-----	-----
GMW-16	04/11/03	GTI	-----	-----	<1	<1	<1	<2	-----	<3	-----	-----	-----	-----
GMW-16	10/08/03	BT for Parsons	-----	-----	<0.30	<0.30	<0.30	<0.30	-----	<5	-----	-----	-----	-----
GMW-16	04/22/04	BT for Parsons	-----	-----	<0.30	<0.30	<0.30	<0.30	-----	<5	-----	-----	-----	-----
GMW-16	11/06/04	BT for Parsons	-----	-----	<0.30	<0.30	<0.30	0.59	-----	<5	-----	-----	-----	-----
GMW-16	05/06/05	BT for Parsons	-----	-----	<0.30	0.58	<0.30	<0.30	-----	<5	-----	-----	-----	-----
GMW-16	11/08/05	BT for Parsons	-----	-----	<0.30	0.48	<0.30	<0.30	-----	<5	-----	-----	-----	-----
GMW-16	05/03/06	BT for Parsons	-----	-----	<0.30	<0.30	<0.30	<0.30	-----	<5	-----	-----	-----	-----
GMW-16	12/06/06	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<1	-----	<5	-----	-----	-----	-----
GMW-16	05/02/07	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<1	-----	<5	-----	-----	-----	-----
GMW-16	11/14/07	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<1	-----	<5	-----	-----	-----	-----
GMW-16	04/16/08	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<1	-----	<5	-----	-----	-----	-----
GMW-16	10/15/08	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-16	04/21/09	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	-----	<0.50	-----	-----	-----	-----
GMW-16	10/20/09	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-16	04/12/10	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	-----	<0.50	<10	<2	<2	<2
GMW-16	10/05/10	BT for Parsons	-----	-----	<0.50	-----	-----	-----	<0.50	<0.50	<10	-----	-----	-----

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-16	10/10/11	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-16	04/18/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-16	10/15/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-16	04/10/13	Parsons	-----	190 b	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-16	10/08/13	Parsons	<100	250 HD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-16	04/14/14	Parsons	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-16	10/27/14	SGI	<100	190	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-16	04/24/15	SGI	<100	180	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-16	04/19/17	SGI	<100	660	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
DUP-4 (GMW-16)	04/19/17	SGI	<100	210	<0.50	<0.50	<0.50	<1.5	<0.50	1.0	<10	<2.0	<2.0	<2.0
GMW-16	10/05/17	SGI	<100	370	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-17	05/10/01	IT Corporation	6,800	-----	52	25	<15	330	-----	<250	-----	-----	-----	-----
GMW-17	10/24/02	GTI	49,000	-----	91	<30	<30	160	-----	<500	-----	-----	-----	-----
GMW-17	04/14/03	GTI	-----	-----	572	5.6	75	367	-----	<15	-----	-----	-----	-----
GMW-17	10/10/03	BT for Parsons	-----	-----	240	1.5	9.5	41	-----	<10	-----	-----	-----	-----
GMW-17	04/22/04	BT for Parsons	-----	-----	540	4.6	24	190	-----	63	-----	-----	-----	-----
GMW-17	11/06/04	BT for Parsons	-----	-----	110	<0.30	2.1	6.1	-----	19	-----	-----	-----	-----
GMW-17	05/10/05	BT for Parsons	-----	-----	7.9	3.6	<1.5	2.6	-----	<25	-----	-----	-----	-----
GMW-17	11/08/05	BT for Parsons	-----	-----	3.7	<0.30	0.37	1.9	-----	7.0	-----	-----	-----	-----
GMW-17	05/05/06	BT for Parsons	-----	-----	3.7	2.2	1.6	4.5	-----	<5	-----	-----	-----	-----
GMW-17	12/08/06	BT for Parsons	-----	-----	34	<0.50	1.9	30	-----	<5	-----	-----	-----	-----
GMW-17	05/03/07	BT for Parsons	-----	-----	9.1	<0.50	0.92	9.0	-----	7.7	-----	-----	-----	-----
GMW-17	11/14/07	BT for Parsons	-----	-----	4.8	<0.50	<0.50	<1	-----	<5	-----	-----	-----	-----
GMW-17	04/18/08	BT for Parsons	-----	-----	5.3	<0.50	0.62	1.4	-----	<5	-----	-----	-----	-----
GMW-17	10/17/08	BT for Parsons	-----	-----	2.6	<0.50	0.57	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-17	04/22/09	BT for Parsons	450	-----	27	<0.50	2.4	<0.50	-----	<0.50	-----	<0.50	<0.50	<0.50
GMW-17	10/20/09	BT for Parsons	-----	-----	0.42 J	<0.50	<0.50	<0.50	<0.50	<0.50	9.5 J	<2	<2	<2
GMW-17	04/14/10	BT for Parsons	1,200	-----	59	0.34 J	5.5	2.0	-----	<0.50	<10	<2	<2	<2
GMW-17	10/05/10	BT for Parsons	1,200	-----	79	-----	-----	-----	<0.50	<0.50	5.2 J	-----	-----	-----
GMW-17	04/15/11	BT for Parsons	750	-----	13	0.55	4.6	0.82	<0.50	<0.50	<10	<2	<2	<2
GMW-17	10/10/11	Parsons	<1,100	-----	50	<0.77	28	6.5	<0.50	<0.50	<10	<2	<2	<2
GMW-17	04/20/12	Parsons	610	-----	1.2	<0.50	0.18 J	0.71 J	<0.50	<0.50	29	<2	<2	<2
GMW-17	04/12/13	Parsons	1,000 b	6,700	55	1.1	1.2	14	<0.50	<0.50	31	<2	<2	<2
GMW-17	10/09/13	Parsons	680 HD	4,200 HD	16	1.2	1.7	12	<0.50	0.48 J	30	<2	<2	<2
GMW-17	04/18/14	Parsons	1,400 HD	5,700 HD	38	1.9	2.3	21	<0.50	0.42 J	48	<2	<2	<2
GMW-17	10/31/14	SGI	510	2,300	10	1.5	<0.50	2.7	<0.50	<2.0	30	<2.0	<2.0	<2.0
GMW-17	10/31/14	SGI	460	2,200	11	1.5	<0.50	2.7	<0.50	<2.0	17	<2.0	<2.0	<2.0
GMW-17R	10/09/17	SGI	640	1,200	64	<0.50	5.0	2.89	<0.50	2.5	19	<2.0	<2.0	<2.0
GMW-18	04/14/03	GTI	-----	-----	3,410	3,510	3,070	17,800	-----	<150	-----	-----	-----	-----
GMW-18	10/08/03	BT for Parsons	-----	-----	2,600	120	360	3,100	-----	<1,000	-----	-----	-----	-----
GMW-18	04/21/04	BT for Parsons	-----	-----	2,700	<50	380	4,288	-----	<50	-----	-----	-----	-----
GMW-18	11/04/04	BT for Parsons	-----	-----	1,300	<3	220	2,400	-----	<50	-----	-----	-----	-----
GMW-18	05/06/05	BT for Parsons	-----	-----	1,100	22	140	1,200	-----	<50	-----	-----	-----	-----
GMW-18	11/08/05	BT for Parsons	-----	-----	650	11	17	470	-----	<100	-----	-----	-----	-----
GMW-18	05/04/06	BT for Parsons	-----	-----	200	1.9	15	100	-----	6.9	-----	-----	-----	-----
GMW-18	12/08/06	BT for Parsons	-----	-----	320	<0.50	25	190	-----	11	-----	-----	-----	-----
GMW-18	05/03/07	BT for Parsons	-----	-----	200	<2.5	13	56	-----	<25	-----	-----	-----	-----
GMW-18	11/15/07	BT for Parsons	-----	-----	160	<0.50	4.1	26	-----	5.5	-----	-----	-----	-----
GMW-18	04/17/08	BT for Parsons	-----	-----	180	0.87	13	100	-----	6.7	-----	-----	-----	-----
GMW-18	10/16/08	BT for Parsons	-----	-----	33	<0.50	2.2	11	<0.50	4.7	12	<2	<2	<2
GMW-18	04/23/09	BT for Parsons	880	-----	60	<0.50	1.4	5.0	<0.50	3.0	13	<2	<2	<2
GMW-18	10/20/09	BT for Parsons	-----	-----	15	<0.50	0.55	5.6	<0.50	7.0	13	<2	<2	<2

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 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-18	04/16/10	BT for Parsons	1,500	-----	80	0.84	0.49 J	1.6	-----	7.3	43	<2	<2	<2
GMW-18	04/20/12	Parsons	2,100	-----	67	0.4 J	1.1	5.9	1.7	3.5	57	<2	<2	<2
GMW-18	07/10/12	Parsons	-----	-----	94	0.42 J	0.94	3.9	<0.50	3.9	27	<2	<2	<2
GMW-18	11/03/14	SGI	15,000	230,000	110	0.93	120	338	<0.50	4.2	<10	<2.0	<2.0	<2.0
GMW-18	11/03/14	SGI	37,000	220,000	220	<50	120	440	<50	<200	<1,000	<200	<200	<200
GMW-18	04/21/15	SGI	4,300	300,000	290	<5.0	75	270	<5.0	<20	<100	<20	<20	<20
GMW-19	11/27/96	GSI	3,000	<500	85	<2.5	23	<5	-----	-----	-----	-----	-----	-----
GMW-19	07/10/97	GTI	<50	<50	2.5	<1	<1	<2	-----	-----	-----	-----	-----	-----
GMW-19	01/07/98	GTI	<500	<100	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
GMW-19	05/21/98	BBC	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
GMW-19	11/06/98	GTI	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
GMW-19	05/27/99	GTI	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
GMW-19	11/18/99	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
GMW-19	05/17/00	IT Corporation	<300	-----	0.47	0.45	<0.30	0.95	-----	-----	-----	-----	-----	-----
GMW-19	12/01/00	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	<5	-----	-----	-----	-----
GMW-19	05/09/01	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	<5	-----	-----	-----	-----
GMW-19	11/08/01	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	<5	-----	-----	-----	-----
GMW-19	04/11/02	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	<5	-----	-----	-----	-----
GMW-19	10/23/02	GTI	<300	-----	<0.30	<0.30	<0.30	<0.30	-----	<5	-----	-----	-----	-----
GMW-19	04/14/03	GTI	-----	-----	<1	<1	<1	<2	-----	<3	-----	-----	-----	-----
GMW-19	10/10/03	BT for Parsons	-----	-----	<0.30	<0.30	<0.30	<0.30	-----	15	-----	-----	-----	-----
GMW-19	04/21/04	BT for Parsons	-----	-----	<0.50	<1	<1	<1	-----	28	-----	-----	-----	-----
GMW-19	11/04/04	BT for Parsons	-----	-----	<0.30	<0.30	<0.30	<0.30	-----	<5	-----	-----	-----	-----
GMW-19	05/06/05	BT for Parsons	-----	-----	<0.30	<0.30	<0.30	0.69	-----	<5	-----	-----	-----	-----
GMW-19	11/08/05	BT for Parsons	-----	-----	0.52	0.71	0.40	2.0	-----	<5	-----	-----	-----	-----
GMW-19	05/04/06	BT for Parsons	-----	-----	<0.30	<0.30	<0.30	<0.30	-----	<5	-----	-----	-----	-----
GMW-19	12/08/06	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<1	-----	<5	-----	-----	-----	-----
GMW-19	05/03/07	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<1	-----	<5	-----	-----	-----	-----
GMW-19	11/15/07	BT for Parsons	-----	-----	0.50	<0.50	<0.50	<1	-----	<5	-----	-----	-----	-----
GMW-19	04/17/08	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<1	-----	<5	-----	-----	-----	-----
GMW-19	10/16/08	BT for Parsons	-----	-----	0.60	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-19	04/23/09	BT for Parsons	-----	-----	0.70	<0.50	<0.50	<0.50	-----	0.67	-----	<0.50	<0.50	<0.50
GMW-19	10/20/09	BT for Parsons	-----	-----	3.8	<0.50	<0.50	<0.50	<0.50	1.5	<10	<2	<2	<2
GMW-19	04/16/10	BT for Parsons	-----	-----	130	<0.50	0.66	<0.50	-----	21	12	<2	<2	0.52 J
GMW-19	10/08/10	BT for Parsons	-----	-----	2.4	-----	-----	-----	<0.50	2.7	<10	-----	-----	-----
GMW-19	10/10/11	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-19	04/18/12	Parsons	-----	-----	3.8	<0.50	<0.50	<0.50	<0.50	0.88	<10	<2	<2	<2
GMW-19	10/15/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	<10	<2	<2	<2
GMW-19	04/10/13	Parsons	-----	1200 b	35	0.38 J	<0.50	0.35 J	<0.50	58	22	<2	<2	<2
GMW-19	10/07/13	Parsons	<100	<100	0.81	<0.50	<0.50	<0.50	<0.50	2.3	<10	<2	<2	<2
GMW-19	04/14/14	Parsons	<100	<100	2.8	<0.50	<0.50	<0.50	<0.50	0.83	<10	<2	<2	<2
GMW-19	10/28/14	SGI	<100	130	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-19	10/28/14	SGI	<100	120	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-19	04/28/15	SGI	490	1,000	90	<0.50	0.50	0.55	<0.50	20	12	<2.0	<2.0	<2.0
GMW-19	10/23/15	SGI	<100	390	9.2	<0.50	<0.50	<1.5	<0.50	17	<10	<2.0	<2.0	<2.0
GMW-19	04/21/17	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-19	10/03/17	SGI	<100	210	<0.50	<0.50	<0.50	<1.5	<0.50	1.5	<10	<2.0	<2.0	<2.0
GMW-20	11/27/96	GSI	1,100	<500	<2.5	<2.5	<2.5	<5	<2.5	-----	-----	-----	-----	-----
GMW-20	07/10/97	GTI	160	1,400	<5	<5	<5	<5	<5	<5	-----	-----	-----	-----
GMW-20	01/06/98	GTI	<500	1,100	<0.50	<0.50	<0.50	<1	<0.50	<0.50	-----	-----	-----	-----
GMW-20	05/21/98	BBC	400	-----	<0.30	<0.50	<0.50	<0.10	<0.50	<0.50	-----	-----	-----	-----
GMW-20	11/05/98	GTI	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----

**APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-20	05/27/99	GTI	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-20	11/18/99	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-20	05/17/00	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-20	11/30/00	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	-----	-----	-----	-----
GMW-20	05/09/01	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-20	11/07/01	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-20	04/11/02	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-20	04/24/15	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-20	10/20/15	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-20	10/05/16	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-20	04/18/17	SGI	<100	<100	<0.50	<0.50	<0.50	<1	<0.50	<1	<10	<2	<2	<2.0
DUP-1 (GMW-20_	04/18/17	SGI	<100	<100	<0.50	<0.50	<0.50	<1	<0.50	<1	<10	<2	<2	<2.0
GMW-21	11/03/14	SGI	1,500	2,500	11	1.6	31	165	<0.50	3.8	24	<2.0	<2.0	<2
GMW-21	04/29/15	SGI	300	2,200	1.1	<0.50	<0.50	<1.5	<0.50	2.7	24	<2.0	<2.0	<2
GMW-21	04/29/15	SGI	300	2,100	1.1	<0.50	<0.50	<1.5	<0.50	3.1	29	<2.0	<2.0	<2.0
GMW-21	04/14/16	SGI	170	1,300	<0.50	<0.50	<0.50	<1.5	<0.50	2.8	<10	<2.0	<2.0	<2.0
GMW-21	10/10/16	SGI	130	2,500	<0.50	<0.50	<0.50	<1.5	<0.50	1.5	<10	<2.0	<2.0	<2.0
GMW-21	04/21/17	SGI	180	3,300	<0.50	<0.50	<0.50	<1	<0.50	<1	<10	<2	<2	<2.0
GMW-22	10/04/10	Blaine Tech	4,100	-----	1,900	<10	55	38	<20	47	1,300	50	<20	<200
GMW-22	10/14/11	CH2M Hill	28,000	-----	13,000	<100	470	200	<200	130	<2,000	<200	<200	<2
GMW-22	04/20/12	CH2M Hill	46,000	1,300	20,000	<100	650	130	<200	140	<2,000	<200	<200	<200
GMW-22	10/18/12	CHHL	32,000	1,300	16,000	120	420	140	<200	180	<2,000	<200	<200	<200
GMW-23	11/08/05	BT for Parsons	-----	-----	<0.30	0.40	<0.30	<0.30	-----	<5	-----	-----	-----	-----
GMW-23	10/31/14	BT for CH2MHill	34,000	53,000	11,000	690	2,100	260	<100	<50	<1,000	<100	<100	<100
GMW-23	04/23/15	BT for CH2MHill	37,000	240,000	2,100	870	490	5,600	<30	<15	360	46	<30	<30
GMW-23	10/06/16	BT for CH2MHill	130	6,100	2.9	<0.50	<0.50	<0.50	<0.50	<0.50	14	4.8	<1.0	<1.0
GMW-23	10/06/17	BT for CH2MHill	230	17,000	<0.50	<0.50	1.3	1.4	<0.50	<0.50	48	9.6	<1.0	<200
GMW-24	04/29/11	Blaine Tech	70,000	-----	19,000	830	1,700	4,200	<200	530	<2,000	<200	<200	<200
GMW-24	10/13/11	CH2M Hill	58,000	-----	23,000	2,400	890	2,600	<200	490	<2,000	<200	<200	<1.0
GMW-25	10/08/10	Blaine Tech	15,000	-----	6,900	<50	70	<50	<100	92	<1,000	<100	<100	<100
GMW-25	04/14/11	Blaine Tech	12,000	-----	6,800	<25	<25	<25	<50	36	<500	<50	<50	<50
GMW-25	10/13/11	CH2M Hill	<20,000	-----	9,700	<100	220	<100	<200	<100	<2,000	<200	<200	<200
GMW-25	10/06/16	BT for CH2MHill	70	780	<0.50	<0.50	<0.50	1.1	0.88	0.50	18	1.2	<1.0	<1.0
GMW-25	04/20/17	BT for CH2MHill	<500	3,700	<2.5	<2.5	<2.5	<2.5	<5	<2.5	<50	<5	<5	<5
GMW-25	10/05/17	BT for CH2MHill	400	11,000	<0.50	<0.50	<0.50	<0.50	1.0	0.64	23	1.5	<1.0	<1.0
GMW-26	11/27/96	Terra Services	-----	-----	46	2.7	18	8.8	110	950	-----	-----	-----	-----
GMW-26	07/10/97	Terra Services	430	<500	100	2.1	6.9	5.9	67	760	-----	-----	-----	-----
GMW-26	01/08/98	Terra Services	200	<500	23	11	5.0	<15	64	1,200	-----	-----	-----	-----
GMW-26	05/22/98	Terra Services	500	-----	<0.30	<0.50	<0.50	<0.10	260	460	-----	-----	-----	-----
GMW-26	11/17/98	Alton Geoscience	1,810	-----	310	<5	8.0	<5	<5	3,460	-----	-----	-----	-----
GMW-26	05/07/99	Alton Geoscience	2,300	<500	490	26	70	140	<5	6,100	-----	-----	-----	-----
GMW-26	11/19/99	Secor	6,700	-----	3,700	160	42	530	<25	8,500	-----	-----	-----	-----
GMW-26	05/16/00	Secor	2,000	-----	1.9	<0.50	<0.50	<0.50	<0.50	82	-----	-----	-----	-----
GMW-26	11/30/00	Secor	780	-----	<0.50	<0.50	<0.50	<0.50	3.1	17	-----	-----	-----	-----
GMW-26	05/08/01	Secor	300	-----	<0.50	<0.50	<0.50	<0.50	13	390	-----	-----	-----	-----
GMW-26	11/06/01	Secor	<300	-----	0.70	<0.50	<0.50	<0.50	75	130	-----	-----	-----	-----
GMW-26	04/09/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	57	130	-----	-----	-----	-----
GMW-26	07/07/03	Geomatrix	-----	-----	<0.50	<1	<1	<1	1.2	61	-----	-----	-----	-----
GMW-26	04/27/04	Geomatrix	63	-----	<0.50	<0.50	<0.50	<0.50	16	59	-----	-----	-----	-----
GMW-26	07/08/04	Geomatrix	62	-----	<0.50	<0.50	<0.50	<0.50	17	27	-----	-----	-----	-----
GMW-26	04/23/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	1.1	<0.50	<10	1.3	<1.0	<1.0
GMW-26	10/26/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	0.80	<0.50	<10	<1.0	<1.0	<1.0

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-26	04/14/16	BT for CH2MHill	<50	76	<0.50	<0.50	<0.50	<0.50	1.1	0.72	<10	1.4	<1.0	<1.0
GMW-26	10/06/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	2.3	0.64	<10	2.0	<1.0	<1.0
GMW-26	04/18/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	0.66	<0.50	<10	<1.0	<1.0	<1.0
GMW-26	10/05/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	1.4	<0.50	12	2.6	<1.0	<1.0
GMW-27	05/27/98	Terra Services	2,800	-----	940	6.0	4.0	11	76	1,570	-----	-----	-----	-----
GMW-27	11/17/98	Alton Geoscience	4,220	-----	3,200	<50	<50	<50	<50	530	-----	-----	-----	-----
GMW-27	05/07/99	Alton Geoscience	6,300	<500	3,600	16	11	<10	<25	720	-----	-----	-----	-----
GMW-27	11/18/99	Secor	3,300	-----	1,100	<25	<25	<25	<25	1,000	-----	-----	-----	-----
GMW-27	05/16/00	Secor	5,500	-----	2,600	<25	25	<25	<25	1,800	-----	-----	-----	-----
GMW-27	11/30/00	Secor	4,900	-----	2,100	<25	<25	<25	<25	1,600	-----	-----	-----	-----
GMW-27	05/08/01	Secor	5,300	-----	2,600	<25	<25	<25	<25	2,200	-----	-----	-----	-----
GMW-27	11/06/01	Secor	4,100	-----	1,600	6.4	6.7	28	<0.50	1,900	-----	-----	-----	-----
GMW-27	04/09/02	Secor	4,900	-----	2,300	<10	15	<10	<10	1,800	-----	-----	-----	-----
GMW-27	10/23/02	Secor	590	-----	1,800	13	<10	13	<10	1,400	-----	-----	-----	-----
GMW-27	04/08/03	Secor	4,600	-----	2,700	<15	<15	17	<30	2,000	-----	-----	-----	-----
GMW-27	10/07/03	Secor	10,000	-----	4,400	<20	47	120	<40	1,800	-----	-----	-----	-----
GMW-27	01/27/04	Secor	8,100	-----	3,600	19	29	115	<30	1,500	-----	-----	-----	-----
GMW-27	04/21/04	Secor	13,000	-----	6,200	<25	51	<25	<50	2,500	-----	-----	-----	-----
GMW-27	07/08/04	Geomatrix	1,900	-----	260	<2.5	<2.5	<2.5	<5	790	-----	-----	-----	-----
GMW-27	11/03/04	Secor	21,000	-----	8,800	<50	53	170	<100	700	-----	-----	-----	-----
GMW-27	05/06/05	Secor	1,100	-----	440	<2.5	<2.5	4.3	<5	42	-----	-----	-----	-----
GMW-27	11/03/05	Secor	4,100	-----	2,000	<10	<10	17	<20	250	-----	-----	-----	-----
GMW-27	05/09/06	Secor	5,500	-----	2,800	<15	22	<15	<30	180	-----	-----	-----	-----
GMW-27	12/06/06	Secor	12,000	-----	6,400	<50	120	<50	<100	210	-----	-----	-----	-----
GMW-27	05/02/07	Secor	13,000	-----	7,400	<50	<50	<50	<100	230	-----	-----	-----	-----
GMW-27	11/13/07	Secor	11,000	-----	6,000	<25	<25	<25	<50	57	-----	-----	-----	-----
GMW-27	04/18/08	Secor	380	-----	130	<1.5	<1.5	<1.5	<3	21	-----	-----	-----	-----
GMW-27	08/14/08	Secor	1,000	-----	280	<1.5	1.5	1.6	<3	17	-----	-----	-----	-----
GMW-27	11/21/08	Stantec	3,100	-----	1,100	<10	<10	<10	<20	26	-----	-----	-----	-----
GMW-27	04/20/09	Blaine Tech for AMEC	100	-----	1.8	<0.50	<0.50	<0.50	<0.50	4.2	450	10	<1	<1
GMW-27	10/22/09	BT for Parsons	130	-----	<0.50	<0.50	<0.50	<0.50	<0.50	5.7	830	17	<1	<1
GMW-27	05/27/10	Blaine Tech	95	-----	<0.50	<0.50	<0.50	<0.50	<0.50	2.6	<10	10	<1	<1
GMW-27	10/07/10	Blaine Tech	130	-----	1.9	<0.50	<0.50	<0.50	<0.50	6.2	900	17	<1	<1
GMW-27	04/13/11	Blaine Tech	<100	-----	<0.50	<0.50	<0.50	<0.50	<1	0.91	480	12	<1	<1
GMW-27	10/12/11	CH2M Hill	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.99	300	6.0	<1	<1
GMW-27	04/19/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.54	380	6.8	<1	<1
GMW-27	10/18/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	300	5.0	<1	<1
GMW-27	04/11/13	CHHL	<100	<50	<0.50	<0.50	<0.50	<0.50	<1	0.57	380	7.8	<1	<1
GMW-27	10/10/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	570	9.3	<1	<1
GMW-27	04/16/14	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	460	6.9	<1	<1
GMW-27	10/30/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	260	6.7	<1.0	<1.0
GMW-27	10/30/14	BT for CH2MHill	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	340	6.4	<1.0	<1.0
GMW-28	05/07/99	Alton Geoscience	43,000	<500	22,000	780	1,400	3,000	<130	1,900	-----	-----	-----	-----
GMW-28	05/17/00	Secor	19,000	-----	9,600	<50	370	160	<50	1,300	-----	-----	-----	-----
GMW-28	11/28/00	Secor	26,000	-----	13,000	53	650	1,139	<0.50	1,600	-----	-----	-----	-----
GMW-28	05/08/01	Secor	30,000	-----	15,000	190	660	310	<5	4,000	-----	-----	-----	-----
GMW-28	11/06/01	Secor	20,000	-----	14,000	51	460	241	<0.50	3,200	-----	-----	-----	-----
GMW-28	04/09/02	Secor	24,000	-----	9,100	79	320	110	<50	1,200	-----	-----	-----	-----
GMW-28	07/07/03	Geomatrix	-----	-----	18,000	140	800	450	<50	530	-----	-----	-----	-----
GMW-28	04/28/04	Geomatrix	40,000	-----	22,000	180	1,200	570	<200	280	-----	-----	-----	-----
GMW-28	07/08/04	Geomatrix	46,000	-----	20,000	120	1,000	560	<200	280	-----	-----	-----	-----
GMW-28	10/31/14	BT for CH2MHill	330	170	23	<0.50	<0.50	<0.50	<0.50	82	38	26	<1.0	<1.0

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-28	04/21/15	BT for CH2MHill	1,200	120	670	<5.0	<5.0	<5.0	<10	100	<100	25	<10	<10
GMW-28	10/26/15	BT for CH2MHill	280	360	3.3	<0.50	<0.50	2.7	<0.50	73	20	18	<1.0	<1.0
GMW-28	04/15/16	BT for CH2MHill	600	89	370	<2	4.5	<2	<4	25	<40	8.6	<4	<4
GMW-28	10/06/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.6	46	19	<1.0	<1.0
GMW-28	04/19/17	BT for CH2MHill	<50	<100	0.69	<0.50	<0.50	<0.50	<0.50	4.8	32	5.2	<1.0	<1.0
GMW-28	10/05/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.88	110	24	<1.0	<1.0
GMW-29	11/28/00	Secor	1,600	-----	170	97	8.0	300	<0.50	54	-----	-----	-----	-----
GMW-29	05/08/01	Secor	2,200	-----	1,300	59	21	30	<0.50	<0.50	-----	-----	-----	-----
GMW-29	04/09/02	Secor	13,000	-----	5,400	4,500	240	1,120	<1	34	-----	-----	-----	-----
GMW-29	07/08/03	Geomatrix	-----	-----	4,100	670	410	880	<25	<50	-----	-----	-----	-----
GMW-29	04/28/04	Geomatrix	40,000	-----	8,700	6,000	910	2,800	<200	<100	-----	-----	-----	-----
GMW-29	07/08/04	Geomatrix	45,000	-----	8,900	6,500	900	4,000	<100	<50	-----	-----	-----	-----
GMW-30	04/15/16	BT for CH2MHill	14,000	2,400	3,600	16	85	860	<30	<15	<300	<30	<30	<30
GMW-30	10/07/16	BT for CH2MHill	360	3,600	24	0.60	2.6	3.0	1.2	2.3	27	6.0	<1.0	<1.0
GMW-30	10/06/17	BT for CH2MHill	280	3,500	28	<0.50	1.7	4.6	<0.50	1.2	28	4.9	<1.0	<1.0
GMW-31	11/27/96	GSI	1,100	<500	<2.5	<2.5	<2.5	<5	-----	-----	-----	-----	-----	-----
GMW-31	07/10/97	GTI	55	550	2.0	<1	<1	<2	-----	-----	-----	-----	-----	-----
GMW-31	01/07/98	GTI	<500	<100	1.6	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
GMW-31	05/21/98	BBC	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
GMW-31	11/06/98	GTI	<300	-----	4.8	<0.30	3.5	<0.60	-----	-----	-----	-----	-----	-----
GMW-31	05/27/99	GTI	<300	-----	<0.30	<0.30	0.52	<0.60	-----	-----	-----	-----	-----	-----
GMW-31	11/18/99	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
GMW-31	05/17/00	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
GMW-31	12/01/00	IT Corporation	530	-----	<0.30	<0.30	<0.30	<0.60	-----	<5	-----	-----	-----	-----
GMW-31	05/10/01	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	<5	-----	-----	-----	-----
GMW-31	11/07/01	IT Corporation	<300	-----	0.80	0.49	<0.30	<0.60	-----	9.9	-----	-----	-----	-----
GMW-31	04/10/02	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	<5	-----	-----	-----	-----
GMW-31	10/24/02	GTI	<300	-----	<0.30	0.49	<0.30	<0.30	-----	<5	-----	-----	-----	-----
GMW-31	04/14/03	GTI	-----	-----	<1	<1	<1	<2	-----	<3	-----	-----	-----	-----
GMW-31	10/10/03	BT for Parsons	-----	-----	0.39	<0.30	<0.30	<0.30	-----	<5	-----	-----	-----	-----
GMW-31	04/22/04	BT for Parsons	-----	-----	<0.30	<0.30	<0.30	<0.30	-----	<5	-----	-----	-----	-----
GMW-31	11/06/04	BT for Parsons	-----	-----	<0.30	<0.30	<0.30	<0.30	-----	<5	-----	-----	-----	-----
GMW-31	05/07/05	BT for Parsons	-----	-----	<0.30	0.64	<0.30	<0.30	-----	<5	-----	-----	-----	-----
GMW-31	11/08/05	BT for Parsons	-----	-----	<0.30	<0.30	<0.30	<0.30	-----	<5	-----	-----	-----	-----
GMW-31	05/05/06	BT for Parsons	-----	-----	<0.30	0.79	0.50	2.4	-----	<5	-----	-----	-----	-----
GMW-31	12/08/06	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<1	-----	<5	-----	-----	-----	-----
GMW-31	05/03/07	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<1	-----	<5	-----	-----	-----	-----
GMW-31	11/14/07	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<1	-----	<5	-----	-----	-----	-----
GMW-31	04/18/08	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<1	-----	<5	-----	-----	-----	-----
GMW-31	10/17/08	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-31	04/22/09	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	-----	<0.50	-----	<0.50	<0.50	<0.50
GMW-31	10/20/09	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.57	<10	<2	<2	<2
GMW-31	04/14/10	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	-----	<0.50	4.6 J	<2	<2	<2
GMW-31	10/08/10	BT for Parsons	-----	-----	<0.50	-----	-----	-----	<0.50	<0.50	6.5 J	-----	-----	-----
GMW-31	04/11/11	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-31	10/10/11	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-31	04/16/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-31	10/16/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-31	04/08/13	Parsons	-----	120 b	<0.50	<0.50	<0.50	<0.50	<0.50	0.67	<10	<2	<2	<2
GMW-31	10/07/13	Parsons	<100	210 HD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-31	04/14/14	Parsons	<100	170 HD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-31	10/29/14	SGI	<100	160	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-31	04/28/15	SGL	<100	340	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-31	04/20/17	SGL	<100	120	<0.50	<0.50	<0.50	<1	<0.50	<1	<10	<2	<2	<2
DUP-5 (GMW-31)	04/20/17	SGL	<100	130	<0.50	<0.50	<0.50	<1	<0.50	<1	<10	<2	<2	<2
GMW-31	10/05/17	SGL	<100	270	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-32	11/27/96	GSI	430	<500	13	<0.50	25	<1	-----	-----	-----	-----	-----	-----
GMW-32	07/10/97	GTI	63	1,800	1.7	<1	<1	<2	-----	-----	-----	-----	-----	-----
GMW-32	01/06/98	GTI	<500	<100	0.40	<0.30	0.70	<0.60	-----	-----	-----	-----	-----	-----
GMW-32	05/21/98	BBC	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
GMW-32	11/05/98	GTI	<300	-----	<0.30	<0.30	0.62	<0.60	-----	-----	-----	-----	-----	-----
GMW-32	11/06/98	GTI	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
GMW-32	05/27/99	GTI	<300	-----	3.1	<0.30	5.0	1.4	-----	-----	-----	-----	-----	-----
GMW-32	11/18/99	IT Corporation	<300	-----	4.3	<0.30	6.9	1.2	-----	-----	-----	-----	-----	-----
GMW-32	05/17/00	IT Corporation	500	-----	8.0	3.4	16	14	-----	-----	-----	-----	-----	-----
GMW-32	11/30/00	IT Corporation	330	-----	<0.30	<0.30	4.2	<0.60	-----	<5	-----	-----	-----	-----
GMW-32	05/09/01	IT Corporation	1,000	-----	4.7	<0.30	1.2	2.8	-----	<5	-----	-----	-----	-----
GMW-32	11/07/01	IT Corporation	660	-----	4.2	0.63	5.7	2.0	-----	<5	-----	-----	-----	-----
GMW-32	02/01/02	Secor	-----	-----	0.89	<0.50	0.53	0.69	<0.50	0.77	-----	-----	-----	-----
GMW-32	04/11/02	IT Corporation	<300	-----	1.5	<0.30	7.2	<0.60	-----	<5	-----	-----	-----	-----
GMW-32	10/23/02	GTI	<300	-----	<0.30	<0.30	<0.30	<0.30	-----	<5	-----	-----	-----	-----
GMW-32	04/09/03	GTI	-----	-----	<1	1.2	<1	<2	-----	<3	-----	-----	-----	-----
GMW-32	10/10/03	BT for Parsons	-----	-----	<0.30	<0.30	<0.30	<0.30	-----	<5	-----	-----	-----	-----
GMW-32	04/21/04	BT for Parsons	-----	-----	0.52	<1	<1	<1	-----	<1	-----	-----	-----	-----
GMW-32	11/04/04	BT for Parsons	-----	-----	<0.30	<0.30	<0.30	<0.30	-----	<5	-----	-----	-----	-----
GMW-32	05/06/05	BT for Parsons	-----	-----	0.31	0.64	<0.30	0.76	-----	<5	-----	-----	-----	-----
GMW-32	11/08/05	BT for Parsons	-----	-----	<0.30	0.41	<0.30	0.70	-----	<5	-----	-----	-----	-----
GMW-32	05/04/06	BT for Parsons	-----	-----	0.46	0.39	0.62	1.4	-----	<5	-----	-----	-----	-----
GMW-32	12/08/06	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<1	-----	<5	-----	-----	-----	-----
GMW-32	05/03/07	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<1	-----	<5	-----	-----	-----	-----
GMW-32	11/16/07	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<1	-----	<5	-----	-----	-----	-----
GMW-32	04/17/08	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<1	-----	<5	-----	-----	-----	-----
GMW-32	10/16/08	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-32	04/24/09	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-32	10/20/09	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-32	04/16/10	BT for Parsons	-----	-----	<0.50	<0.50	0.41 J	<0.50	-----	<0.50	<10	<2	<2	<2
GMW-32	10/07/10	BT for Parsons	-----	-----	<0.50	-----	-----	-----	<0.50	<0.50	<10	-----	-----	-----
GMW-32	04/14/11	BT for Parsons	-----	-----	<0.50	<0.50	0.25 J	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-32	10/12/11	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-32	04/19/12	Parsons	-----	-----	<0.50	<0.50	<0.50	0.26 J	<0.50	<0.50	<10	<2	<2	<2
GMW-32	10/19/12	Parsons	-----	-----	0.2 J	<0.50	0.14 J	0.32	<0.50	<0.50	<10	<2	<2	<2
GMW-32	04/10/13	Parsons	-----	1,300 b	<0.50	<0.50	<0.50	0.3 J	<0.50	<0.50	<10	<2	<2	<2
GMW-32	10/08/13	Parsons	<100	1,200 HD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	7.3 J	<2	<2	<2
GMW-32	04/16/14	Parsons	440 HD	1,500 HD	<0.50	<0.50	0.41 J	0.80	<0.50	0.67	17	<2	<2	<2
GMW-32	10/30/14	SGL	290	1,500	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	13	<2.0	<2.0	<2.0
GMW-33	11/21/96	GSI	<38	<500	<0.50	<0.50	<0.50	<1.5	<0.50	-----	-----	-----	-----	-----
GMW-33	07/10/97	GTI	<50	700	<5	<5	<5	<5	<5	<5	-----	-----	-----	-----
GMW-33	01/06/98	GTI	<500	<100	<0.50	<0.50	<0.50	<1	<0.50	<0.50	-----	-----	-----	-----
GMW-33	05/20/98	BBC	<300	-----	<0.30	<0.50	<0.50	<1	<0.50	<0.50	-----	-----	-----	-----
GMW-33	11/05/98	GTI	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-33	05/27/99	GTI	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-33	11/18/99	IT Corporation	<300	-----	<0.50	<1	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-33	05/17/00	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-33	11/30/00	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----

APPENDIX E
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 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (μg/L)	TPH-d (μg/L)	Benzene (μg/L)	Toluene (μg/L)	Ethyl- benzene (μg/L)	Xylenes (μg/L)	1,2-DCA (μg/L)	MTBE (μg/L)	TBA (μg/L)	DIPE (μg/L)	ETBE (μg/L)	TAME (μg/L)
GMW-33	05/09/01	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-33	11/07/01	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-33	02/01/02	Secor	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-33	04/11/02	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.80	-----	-----	-----	-----
GMW-34	11/18/99	IT Corporation	9,500	-----	30	3.5	8.3	81	<0.50	24	-----	-----	-----	-----
GMW-34	05/17/00	IT Corporation	740	-----	<0.50	<0.50	1.5	11	<0.50	30	-----	-----	-----	-----
GMW-34	12/01/00	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	10	-----	-----	-----	-----
GMW-34	05/10/01	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	7.3	-----	-----	-----	-----
GMW-34	11/08/01	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	-----	-----	-----	-----
GMW-34	04/12/02	IT Corporation	960	-----	240	1.4	33	81	<0.50	2.5	-----	-----	-----	-----
GMW-35	05/09/01	IT Corporation	20,000	-----	1,300	11	580	4,100	<10	<10	-----	-----	-----	-----
GMW-35	04/10/03	GTI	-----	-----	65	31	109	159	-----	<3	-----	-----	-----	-----
GMW-35	10/10/03	BT for Parsons	-----	-----	100	<15	120	650	-----	<250	-----	-----	-----	-----
GMW-35	04/21/04	BT for Parsons	-----	-----	110	<1	45	7.3	-----	1.5	-----	-----	-----	-----
GMW-35	11/04/04	BT for Parsons	-----	-----	62	<3	13	28	-----	<50	-----	-----	-----	-----
GMW-35	05/05/05	BT for Parsons	-----	-----	10	1.4	33	22	-----	<10	-----	-----	-----	-----
GMW-35	11/05/05	BT for Parsons	-----	-----	9.1	2.2	31	17	-----	<25	-----	-----	-----	-----
GMW-35	05/03/06	BT for Parsons	-----	-----	7.9	2.9	20	12	-----	<5	-----	-----	-----	-----
GMW-35	12/08/06	BT for Parsons	-----	-----	14	<0.50	9.0	6.9	-----	<5	-----	-----	-----	-----
GMW-35	05/04/07	BT for Parsons	-----	-----	21	0.86	1.3	5.3	-----	6.1	-----	-----	-----	-----
GMW-35	11/15/07	BT for Parsons	-----	-----	26	<0.50	<0.50	<1	-----	7.7	-----	-----	-----	-----
GMW-35	04/17/08	BT for Parsons	-----	-----	18	<0.50	1.8	2.5	-----	<5	-----	-----	-----	-----
GMW-35	04/24/09	BT for Parsons	-----	-----	63	<5	<5	<5	-----	210	-----	<5	<5	<5
GMW-35	04/16/10	BT for Parsons	-----	-----	180	0.88 J	1.5	0.70	-----	13	2,200	<4	<4	<4
GMW-35R	10/09/17	SGL	160	1,400	9.4	<0.50	<0.50	<1.5	<0.50	5.0	770	<2.0	<2.0	<2.0
GMW-36	07/10/97	Terra Services	430	<500	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
GMW-36	01/09/98	Terra Services	4,000	4,300	22	21	100	6.1	<5	7,700	-----	-----	-----	-----
GMW-36	05/20/98	Terra Services	1,400	-----	<0.30	<0.30	<10	<20	<0.50	19,600	-----	-----	-----	-----
GMW-36	11/17/98	Alton Geoscience	7,900	-----	2,100	1,370	70	650	<50	34,800	-----	-----	-----	-----
GMW-36	05/07/99	Alton Geoscience	2,800	<500	<10	<10	<10	<10	<25	14,000	-----	-----	-----	-----
GMW-36	11/18/99	Secor	51,000	-----	8,100	5,600	<250	1,770	<250	47,000	-----	-----	-----	-----
GMW-36	05/17/00	Secor	59,000	-----	14,000	6,700	480	4,100	<130	45,000	-----	-----	-----	-----
GMW-36	11/30/00	Secor	110,000	-----	20,000	19,000	1,600	8,100	<0.50	13,000	-----	-----	-----	-----
GMW-36	02/06/01	Secor	75,000	-----	18,000	13,000	1,400	6,100	<50	9,100	-----	-----	-----	-----
GMW-36	05/10/01	Secor	12,000	-----	3,700	2,500	420	1,730	<0.50	1,600	-----	-----	-----	-----
GMW-36	09/19/01	Secor	21,000	-----	5,800	3,600	580	2,080	<13	1,000	-----	-----	-----	-----
GMW-36	11/06/01	Secor	63,000	-----	16,000	13,000	1,600	7,700	<25	3,200	-----	-----	-----	-----
GMW-36	01/30/02	Secor	130,000	-----	21,000	20,000	1,700	9,000	<125	42,000	-----	-----	-----	-----
GMW-36	04/10/02	Secor	150,000	-----	25,000	22,000	1,800	10,000	<50	67,000	-----	-----	-----	-----
GMW-36	07/30/02	IT Corporation	81,000	-----	28,000	29,000	2,200	11,800	<50	37,000	-----	-----	-----	-----
GMW-36	12/06/06	Secor	32,000	-----	5,300	4,300	480	4,300	<50	1,600	-----	-----	-----	-----
GMW-36	03/13/07	Secor	54,000	-----	9,400	12,000	1,100	8,200	<200	3,800	-----	-----	-----	-----
GMW-36	05/05/07	Secor	69,000	-----	9,800	11,000	1,200	8,000	<200	3,900	-----	-----	-----	-----
GMW-36	08/29/07	Secor	30,000	-----	4,100	4,200	420	4,500	120	890	-----	-----	-----	-----
GMW-36	02/20/08	Secor	34,000	-----	3,900	6,000	750	4,600	<50	43	-----	-----	-----	-----
GMW-36	04/16/08	Secor	42,000	-----	5,200	8,300	940	6,200	<200	<100	-----	-----	-----	-----
GMW-36	10/16/08	Stantec	17,000	-----	2,100	2,000	160	2,300	<20	26	-----	-----	-----	-----
GMW-36	07/22/09	BT for Parsons	24,000	-----	3,800	5,400	720	3,380	<50	28	<500	<50	<50	<50
GMW-36	03/16/10	BT for Parsons	8,000	-----	830	1,100	140	700	<10	16	690	<10	<10	<10
GMW-36	04/16/10	BT for Parsons	4,200	-----	850	150	89	200	<5	11	3,700	<5	<5	<5
GMW-36	07/13/10	BT for Parsons	500	-----	49	51	4.9	43	<0.50	0.91	340	<1	<1	<1
GMW-36	08/12/10	BT for Parsons	9,200	-----	1,400	1,100	52	980	<10	18	1,600	<10	<10	<10

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Xylenes	1,2-DCA	MTBE	TBA	DIPE	ETBE	TAME
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
GMW-36	09/20/10	BT for Parsons	3,300	-----	130	18	36	120	<1	130	13,000	<1	<1	1.6
GMW-36	10/05/10	BT for Parsons	15,000	-----	2,500	1,300	390	1,200	<20	30	1,300	<20	<20	<20
GMW-36	11/23/10	BT for Parsons	31,000	-----	5,100	3,400	890	2,600	<40	51	470	<40	<40	<40
GMW-36	12/22/10	BT for Parsons	63,000	-----	6,700	9,600	1,700	5,600	<50	28	<500	<50	<50	<50
GMW-36	01/12/11	BT for Parsons	320,000	-----	4,600	2,900	1,400	9,200	<200	<100	<2,000	<200	<200	<200
GMW-36	02/24/11	BT for Parsons	1,600	-----	110	77	19	130	<1	2.5	2,200	<1	<1	<1
GMW-36	03/23/11	BT for Parsons	3,200	-----	360	340	28	240	<3	7.6	2,400	<3	<3	<3
GMW-36	04/29/11	BT for Parsons	1,500	-----	75	67	6.8	113	<0.50	3.3	1,700	<1	<1	<1
GMW-36	05/13/11	BT for Parsons	13,000	-----	2,300	2,100	93	1,640	<20	43	<200	<20	<20	<20
GMW-36	06/22/11	BT for Parsons	420	-----	24	12	2.8	29	<0.50	110	5,900	<1	<1	<1
GMW-36	07/29/11	CH2M Hill	7,300	-----	560	570	61	990	<10	350	4,600	<10	<10	<10
GMW-36	08/19/11	CH2M Hill	13,000	-----	570	1,100	250	1,900	<20	260	9,000	<20	<20	<20
GMW-36	09/22/11	CH2M Hill	5,200	-----	490	240	52	470	<5	660	7,400	<5	<5	17
GMW-36	10/13/11	CH2M Hill	22,000	-----	610	490	430	2,200	<20	250	3,700	<20	<20	43
GMW-36	11/23/11	CH2M Hill	630	-----	17	<2.5	<2.5	14	<5	110	6,000	<5	<5	<5
GMW-36	12/21/11	CH2M Hill	700	-----	59	55	14	65	<0.50	2.1	340	<1	<1	<1
GMW-36	01/10/12	CH2M Hill	380	-----	78	1.6	5.1	13	<0.50	94	4,900	<1	<1	1.3
GMW-36	02/23/12	CH2M HILL	45,000	-----	5,600	8,900	1,700	6,600	<100	<200	<2,000	<200	<200	<200
GMW-36	03/28/12	CH2M HILL	220	400	3.5	4.1	1.2	6.3	<0.50	1.5	130	<1	<1	<1
GMW-36	04/27/12	CH2M Hill	1,300	710	43	<0.50	2.5	35	<1	64	4,200	<1	<1	1.2
GMW-36	05/25/12	CH2M HILL	280	440	<0.50	<0.50	<0.50	1.5	<1	14	6,200	<1	<1	<1
GMW-36	06/15/12	CH2M HILL	460	380	17	4.1	5.5	50	<1	12	780	<1	<1	<1
GMW-36	07/11/12	CHHL	5,100	12,000	<2.5	6.8	39	300	<5	<2.5	140	<5	<5	<5
GMW-36	09/26/12	CHHL	14,000	6,600	35	11	<2.5	230	<5	17	100	<5	<5	<5
GMW-36	10/18/12	CHHL	8,800	12,000	350	33	28	490	<5	70	100	<5	<5	<5
GMW-36	11/29/12	CHHL	8,400	6,600	520	550	66	490	<10	190	<100	<10	<10	<10
GMW-36	04/12/13	CHHL	560,000	19,000	7,400	20,000	8,900	50,000	<400	270	<4,000	<400	<400	<400
GMW-36	10/11/13	CHHL	120,000	130,000	9,600	18,000	3,400	18,000	<200	380	<2,000	<200	<200	<200
GMW-36	10/28/15	BT for CH2MHill	19,000	16,000 HD	2,300	82	500	2,700	<20	1,500	710	<20	<20	<20
GMW-36	04/15/16	BT for CH2MHill	16,000	13,000	660	<10	170	1,700	<20	540	1,400	<20	<20	<20
GMW-36	04/19/17	BT for CH2MHill	6,900	4,000	1,500	<10	140	<10	<0.50	1,900	7,800	<20	<20	36
GMW-36	10/05/17	BT for CH2MHill	630	340	48	1.3	25	14	1.8	27	2,500	<1.0	<1.0	1.8
GMW-37	11/25/96	Terra Services	-----	-----	<0.50	<0.50	<0.50	<1.5	<0.50	<5	-----	-----	-----	-----
GMW-37	07/11/97	Terra Services	<100	<500	<0.50	<0.50	<0.50	<1	<0.50	<5	-----	-----	-----	-----
GMW-37	01/06/98	Terra Services	<100	<500	<0.50	<0.50	<0.50	<1.5	<0.50	<5	-----	-----	-----	-----
GMW-37	05/26/98	Terra Services	<300	-----	<0.30	<0.30	<0.50	0.60	<0.50	<0.50	-----	-----	-----	-----
GMW-37	11/11/98	Alton Geoscience	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	11	-----	-----	-----	-----
GMW-37	05/07/99	Alton Geoscience	<500	<500	1.1	4.5	<0.50	1.9	<1	14	-----	-----	-----	-----
GMW-37	11/18/99	Secor	<416	-----	<0.50	<0.50	<0.50	<0.50	<0.50	16	-----	-----	-----	-----
GMW-37	05/17/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	16	-----	-----	-----	-----
GMW-37	11/30/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	34	-----	-----	-----	-----
GMW-37	02/06/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	54	-----	-----	-----	-----
GMW-37	05/08/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-37	09/19/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	11	-----	-----	-----	-----
GMW-37	11/06/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	49	-----	-----	-----	-----
GMW-37	01/30/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	-----	-----	-----	-----
GMW-37	04/10/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	7.2	-----	-----	-----	-----
GMW-37	10/22/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	49	-----	-----	-----	-----
GMW-37	01/29/03	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.75	-----	-----	-----	-----
GMW-37	04/09/03	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.86	-----	-----	-----	-----
GMW-37	07/30/03	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-37	10/06/03	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	4.3	-----	-----	-----	-----

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-37	01/27/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-37	04/20/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-37	07/19/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-37	11/02/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-37	02/02/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-37	05/04/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-37	08/01/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-37	11/01/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-37	02/27/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-37	05/02/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-37	09/18/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-37	12/05/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-37	05/04/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-37	11/14/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-37	04/16/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-37	10/14/08	Stantec	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-37	04/23/09	Blaine Tech for AMEC	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-37	10/19/09	BT for Parsons	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-37	05/26/10	BT for Parsons	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-37	10/06/10	BT for Parsons	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-37	04/12/11	BT for Parsons	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-37	10/11/11	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-37	04/17/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-37	10/16/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-37	04/10/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-37	10/09/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-37	04/15/14	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-37	10/29/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-37	04/21/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-37	10/21/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-37	04/13/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-37	10/04/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-37	04/18/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-37	10/03/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-38	11/26/96	Terra Services	----	----	1.8	<0.50	<0.50	<1.5	<0.50	7.7	----	----	----	----
GMW-38	07/10/97	Terra Services	<100	<500	<0.50	2.0	<0.50	0.83	<0.50	<5	----	----	----	----
GMW-38	01/05/98	Terra Services	<100	<500	<0.50	<0.50	<0.50	<1.5	<0.50	<5	----	----	----	----
GMW-38	05/21/98	Terra Services	<300	----	<0.30	<0.50	<0.50	<1	<0.50	1.2	----	----	----	----
GMW-38	11/12/98	Alton Geoscience	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	25	----	----	----	----
GMW-38	05/07/99	Alton Geoscience	<500	<500	<0.50	1.5	<0.50	<0.50	<1	7.9	----	----	----	----
GMW-38	11/18/99	Secor	<416	----	<0.50	<0.50	<0.50	<0.50	<0.50	1.7	----	----	----	----
GMW-38	05/17/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-38	11/30/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	0.80	----	----	----	----
GMW-38	05/08/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-38	11/06/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	1.6	----	----	----	----
GMW-38	02/01/02	Secor	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	1.7	----	----	----	----
GMW-38	04/10/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-38	10/23/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-38	01/29/03	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-38	04/09/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	1.5	----	----	----	----
GMW-38	07/30/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-38	10/06/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017

Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-38	01/28/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-38	04/20/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	1.4	----	----	----	----
GMW-38	07/19/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-38	11/02/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-38	02/02/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-38	05/04/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	----	----	----	----
GMW-38	08/02/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-38	11/01/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-38	02/28/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	0.66	----	----	----	----
GMW-38	05/02/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-38	09/18/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-38	12/05/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-38	03/13/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-38	05/05/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-38	08/30/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-38	11/13/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-38	04/22/09	Blaine Tech for AMEC	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	0.74	<10	<1	<1	<1
GMW-38	07/21/09	BT for Parsons	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	0.55	27	<1	<1	<1
GMW-38	10/21/09	BT for Parsons	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	29	<1	<1	<1
GMW-38	03/15/10	BT for Parsons	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-38	05/26/10	BT for Parsons	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-38	07/13/10	BT for Parsons	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	<10	<1	<1	<1
GMW-38	10/06/10	BT for Parsons	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-38	01/11/11	BT for Parsons	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-38	04/12/11	BT for Parsons	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-38	07/12/11	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-38	10/12/11	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-38	01/10/12	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-38	04/18/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-38	07/10/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-38	10/17/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-38	01/15/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-38	04/10/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-38	10/10/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-38	04/16/14	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-38	10/29/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-38	04/21/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-38	10/22/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-38	04/13/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-38	10/04/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-38	04/18/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-38	10/03/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-39	11/21/96	Terra Services	----	----	<0.50	<0.50	<0.50	<1.5	<0.50	<5	----	----	----	----
GMW-39	07/10/97	Terra Services	<100	<500	<0.50	0.50	<0.50	<1	<0.50	<5	----	----	----	----
GMW-39	01/05/98	Terra Services	<100	<500	<0.50	<0.50	<0.50	<1.5	<0.50	<5	----	----	----	----
GMW-39	05/19/98	Terra Services	----	----	<0.30	<0.50	<0.50	<1	<0.50	0.90	----	----	----	----
GMW-39	11/12/98	Alton Geoscience	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	3.2	----	----	----	----
GMW-39	05/07/99	Alton Geoscience	<500	<500	<0.50	<0.50	<0.50	<0.50	<1	2.9	----	----	----	----
GMW-39	11/18/99	Secor	<416	----	<0.50	<0.50	<0.50	<0.50	<0.50	12	----	----	----	----
GMW-39	05/17/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	9.4	----	----	----	----
GMW-39	11/29/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	16	----	----	----	----
GMW-39	05/08/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----

**APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017**
Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-39	11/06/01	Secor	<300	-----	1.2	<0.50	<0.50	<0.50	<0.50	39	-----	-----	-----	-----
GMW-39	02/01/02	Secor	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	36	-----	-----	-----	-----
GMW-39	04/10/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	20	-----	-----	-----	-----
GMW-39	10/22/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	89	-----	-----	-----	-----
GMW-39	01/29/03	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	32	-----	-----	-----	-----
GMW-39	04/09/03	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	23	-----	-----	-----	-----
GMW-39	07/30/03	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	3.3	-----	-----	-----	-----
GMW-39	10/06/03	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	6.6	-----	-----	-----	-----
GMW-39	01/28/04	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	3.6	-----	-----	-----	-----
GMW-39	04/20/04	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	4.8	-----	-----	-----	-----
GMW-39	07/19/04	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	3.7	-----	-----	-----	-----
GMW-39	11/03/04	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	3.7	-----	-----	-----	-----
GMW-39	02/02/05	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	1.7	-----	-----	-----	-----
GMW-39	05/04/05	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-39	08/02/05	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-39	11/01/05	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-39	02/27/06	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.59	-----	-----	-----	-----
GMW-39	05/02/06	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-39	09/19/06	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	3.7	-----	-----	-----	-----
GMW-39	12/06/06	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	4.0	-----	-----	-----	-----
GMW-39	03/13/07	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	4.5	-----	-----	-----	-----
GMW-39	05/04/07	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	2.9	-----	-----	-----	-----
GMW-39	08/29/07	Secor	<500	-----	<2.5	<2.5	<2.5	<2.5	<5	3.6	-----	-----	-----	-----
GMW-39	11/13/07	Secor	160	-----	<0.50	<0.50	<0.50	<0.50	<1	2.6	-----	-----	-----	-----
GMW-39	02/20/08	Secor	110	-----	<0.50	<0.50	<0.50	<0.50	<0.50	2.9	-----	-----	-----	-----
GMW-39	04/16/08	Secor	90	-----	<0.50	<0.50	<0.50	<0.50	<0.50	1.9	-----	-----	-----	-----
GMW-39	08/14/08	Secor	<100	-----	<0.50	<0.50	<0.50	<0.50	<1	1.1	-----	-----	-----	-----
GMW-39	10/15/08	Stantec	<500	-----	<2.5	<2.5	<2.5	<2.5	<5	5.6	-----	-----	-----	-----
GMW-39	02/24/09	BT for Parsons	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	3,400	-----	-----	-----
GMW-39	04/22/09	Blaine Tech for AMEC	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	4,000	<1	<1	<1
GMW-39	07/21/09	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<1	<0.50	2,500	<1	<1	<1
GMW-39	10/22/09	BT for Parsons	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	2,200	<1	<1	<1
GMW-39	03/16/10	BT for Parsons	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	130	<1	<1	<1
GMW-39	05/27/10	BT for Parsons	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-39	07/13/10	BT for Parsons	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	230	<1	<1	<1
GMW-39	10/07/10	BT for Parsons	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.75	550	<1	<1	<1
GMW-39	01/11/11	BT for Parsons	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	68	<1	<1	<1
GMW-39	04/13/11	BT for Parsons	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-39	07/12/11	CH2M Hill	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-39	10/11/11	CH2M Hill	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	96	<1	<1	<1
GMW-39	01/10/12	CH2M Hill	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	58	<1	<1	<1
GMW-39	04/19/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	38	<1	<1	<1
GMW-39	07/10/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-39	10/17/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	47	<1	<1	<1
GMW-39	01/15/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-39	04/10/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.88	54	<1	<1	<1
GMW-39	10/10/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.8	420	<1	<1	<1
GMW-39	04/16/14	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	20	<1	<1	<1
GMW-39	10/30/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.7	<10	<1.0	<1.0	<1.0
GMW-39	10/30/14	BT for CH2MHill	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.6	15	<1.0	<1.0	<1.0
GMW-39	04/23/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.95	<10	<1.0	<1.0	<1.0
GMW-39	04/23/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.87	<10	<1.0	<1.0	<1.0

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g	TPH-d	Benzene	Toluene	Ethyl- benzene	Xylenes	1,2-DCA	MTBE	TBA	DIPE	ETBE	TAME
			(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
GMW-39	10/23/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-39	10/23/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-39	04/14/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
DUP-4 (GMW 39)	04/14/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.51	<10	<1.0	<1.0	<1.0
GMW-39	10/05/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.6	<10	<1.0	<1.0	<1.0
DUP-1 (GMW-39)	10/05/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.5	<10	<1.0	<1.0	<1.0
GMW-39	04/18/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-39	10/4/2017	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-40	11/27/96	Terra Services	400	<500	0.50	<0.50	5.8	5.9	<0.50	<5	----	----	----	----
GMW-40	07/10/97	GTI	210	2,600	----	----	----	----	----	----	----	----	----	----
GMW-40	01/07/98	GTI	<500	<100	<0.50	<0.50	<0.50	<1	<0.50	<0.50	----	----	----	----
GMW-40	05/21/98	BBC	<300	----	<0.30	<0.50	<0.50	<1	<0.50	<0.50	----	----	----	----
GMW-40	11/05/98	GTI	<300	----	<0.50	<0.50	3.8	7.6	<0.50	<0.50	----	----	----	----
GMW-40	05/26/99	GTI	<300	----	0.90	<0.50	<0.50	<0.50	<0.50	4.4	----	----	----	----
GMW-40	11/18/99	IT Corporation	<300	----	2.8	<0.50	0.90	2.8	<0.50	9.3	----	----	----	----
GMW-40	05/17/00	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	11	----	----	----	----
GMW-40	12/01/00	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-40	05/10/01	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-40	11/08/01	IT Corporation	<300	----	<0.50	<0.50	1.1	3.1	<0.50	19	----	----	----	----
GMW-40	04/12/02	IT Corporation	<300	----	1.7	<0.50	0.70	0.90	<0.50	17	----	----	----	----
GMW-40	04/16/03	GTI	----	----	5.2	<0.50	2.7	4.7	<0.50	55	----	----	----	----
GMW-40	10/08/03	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	52	----	----	----	----
GMW-40	04/22/04	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	39	<10	<2	<2	<2
GMW-40	11/06/04	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-40	05/07/05	BT for Parsons	----	----	<0.50	<0.50	<0.50	0.70	<0.50	0.76	<10	<2	<2	<2
GMW-40	11/08/05	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	0.76	<10	<2	<2	<2
GMW-40	05/05/06	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	4.9	<10	<2	<2	<2
GMW-40	12/08/06	BT for Parsons	----	----	0.87	<0.50	<0.50	14	<0.50	15	<10	<2	<2	<2
GMW-40	05/03/07	BT for Parsons	----	----	3.7	<0.50	2.2	27	<0.50	46	63	<2	<2	<2
GMW-40	11/16/07	BT for Parsons	----	----	0.61	<0.50	1.9	8.4	<0.50	<0.50	<10	<2	<2	<2
GMW-40	04/18/08	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-40	10/17/08	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	<10	<2	<2	<2
GMW-40	04/24/09	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-40	10/21/09	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	0.4 J	<10	<2	<2	<2
GMW-40	04/14/10	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	----	<0.50	<10	<2	<2	<2
GMW-40	10/06/10	BT for Parsons	<50	----	1.2	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-40	10/08/13	Parsons	120 HD	460 HD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-40	04/14/14	Parsons	<100	240 HD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-40	10/29/14	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-40	10/29/14	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-40	04/22/15	SGI	<100	130	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-40	10/05/16	SGI	<100	1,100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-41	11/27/96	GSI	250	<500	<0.50	<0.50	<0.50	<1	<0.50	----	----	----	----	----
GMW-41	07/10/97	GTI	75	1,200	<5	<5	<5	<5	<5	<5	----	----	----	----
GMW-41	01/07/98	GTI	<500	<100	<0.50	<0.50	<0.50	<1	<0.50	<0.50	----	----	----	----
GMW-41	05/21/98	BBC	<300	----	<0.30	<0.50	<0.50	<1	<0.50	<0.50	----	----	----	----
GMW-41	11/05/98	GTI	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	1.0	----	----	----	----
GMW-41	05/26/99	GTI	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-41	11/18/99	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-41	05/17/00	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-41	11/30/00	IT Corporation	<300	----	<0.30	<0.30	<0.30	<0.60	----	<5	----	----	----	----
GMW-41	05/10/01	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017

Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-41	11/08/01	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-41	04/12/02	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	0.80	----	----	----	----
GMW-41	10/24/02	GTI	<300	----	<0.50	<1	<1	<1	<0.50	1.1	----	----	----	----
GMW-41	04/16/03	GTI	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-41	10/08/03	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	2.4	----	----	----	----
GMW-41	04/22/04	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	3.3	<10	<2	<2	<2
GMW-41	11/06/04	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	3.6	<10	<2	<2	<2
GMW-41	05/07/05	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-41	11/08/05	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-41	05/05/06	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-41	12/08/06	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-41	05/03/07	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	0.51	<10	<2	<2	<2
GMW-41	11/16/07	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-41	04/18/08	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-41	10/17/08	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-41	04/22/09	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-41	10/21/09	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	0.43 J	<10	<2	<2	<2
GMW-41	04/14/10	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	----	0.33 J	5.7 J	<2	<2	<2
GMW-41	10/06/10	BT for Parsons	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-41	10/06/10	BT for Parsons	----	----	<0.50	----	----	----	<0.50	<0.50	<10	----	----	----
GMW-41	04/11/11	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-41	10/11/11	Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-41	04/16/12	Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	5.4 J	<2	<2	<2
GMW-41	10/16/12	Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-41	04/09/13	Parsons	----	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-41	10/07/13	Parsons	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.5 J	<10	<2	<2	<2
GMW-41	10/28/14	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-41	04/22/15	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	3.2	<10	<2.0	<2.0	<2.0
GMW-41	04/22/15	SGI	<100	120	<0.50	<0.50	<0.50	<1.5	<0.50	2.6	<10	<2.0	<2.0	<2.0
GMW-41	10/05/16	SGI	<100	330	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-41	04/20/17	SGI	<100	140	<0.50	<0.50	<0.50	<1	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-42	11/05/98	GTI	7,530	----	800	<7.5	55	810	----	----	----	----	----	----
GMW-42	05/27/99	GTI	6,510	----	1,100	110	60	580	----	----	----	----	----	----
GMW-42	11/18/99	IT Corporation	7,900	----	810	490	180	1,200	----	----	----	----	----	----
GMW-42	05/17/00	IT Corporation	3,800	----	9.9	1.2	26	230	----	----	----	----	----	----
GMW-42	12/01/00	IT Corporation	380	----	1.0	<0.30	<0.30	<0.60	----	18	----	----	----	----
GMW-42	05/10/01	IT Corporation	490	----	24	40	11	79	----	5.3	----	----	----	----
GMW-42	11/07/01	IT Corporation	<300	----	<0.30	<0.30	<0.30	1.6	----	<5	----	----	----	----
GMW-42	04/10/02	IT Corporation	<300	----	<0.30	<0.30	<0.30	<0.60	----	7.0	----	----	----	----
GMW-42	10/09/13	Parsons	<100	120 HD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-42	04/14/14	Parsons	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-42	10/27/14	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-42	04/22/15	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-42	04/17/17	SGI	<100	<100	<0.50	<0.50	1.6	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-42	10/03/17	SGI	<100	180	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-43	11/27/96	GSI	620	<500	<0.50	<0.50	<0.50	<1	----	----	----	----	----	----
GMW-43	07/10/97	GTI	<50	<50	<0.50	<1	<1	<2	----	----	----	----	----	----
GMW-43	01/07/98	GTI	<500	<100	0.30	<0.30	<0.30	<0.60	----	----	----	----	----	----
GMW-43	05/21/98	BBC	<300	----	<0.30	<0.30	<0.30	<0.60	----	----	----	----	----	----
GMW-43	11/05/98	GTI	<300	----	<0.30	<0.30	<0.30	<0.60	----	----	----	----	----	----
GMW-43	05/27/99	GTI	<300	----	<0.30	<0.30	<0.30	<0.60	----	----	----	----	----	----
GMW-43	11/18/99	IT Corporation	<300	----	<0.30	<0.30	<0.30	<0.60	----	----	----	----	----	----

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-43	05/17/00	IT Corporation	<300	----	0.92	<0.30	0.45	<0.60	----	----	----	----	----	----
GMW-43	11/30/00	IT Corporation	<300	----	<0.30	<0.30	<0.30	<0.60	----	<5	----	----	----	----
GMW-43	05/09/01	IT Corporation	<300	----	<0.30	<0.30	<0.30	<0.60	----	<5	----	----	----	----
GMW-43	11/07/01	IT Corporation	<300	----	<0.30	<0.30	<0.30	<0.60	----	<5	----	----	----	----
GMW-43	04/11/02	IT Corporation	<300	----	<0.30	<0.30	<0.30	<0.60	----	<5	----	----	----	----
GMW-43	10/23/02	GTI	<300	----	<0.30	<0.30	<0.30	<0.30	----	<5	----	----	----	----
GMW-43	04/14/03	GTI	----	----	<1	<1	<1	<2	----	<3	----	----	----	----
GMW-43	10/08/03	BT for Parsons	----	----	<0.30	<0.30	<0.30	<0.30	----	<5	----	----	----	----
GMW-43	04/21/04	BT for Parsons	----	----	<0.50	<1	<1	<1	----	<1	----	----	----	----
GMW-43	11/06/04	BT for Parsons	----	----	<0.30	<0.30	<0.30	<0.30	----	<5	----	----	----	----
GMW-43	05/10/05	BT for Parsons	----	----	<0.30	0.68	<0.30	<0.30	----	<5	----	----	----	----
GMW-43	11/08/05	BT for Parsons	----	----	<0.30	0.47	<0.30	0.31	----	<5	----	----	----	----
GMW-43	05/04/06	BT for Parsons	----	----	<0.30	<0.30	<0.30	<0.30	----	<5	----	----	----	----
GMW-43	12/08/06	BT for Parsons	----	----	<0.50	<0.50	<0.50	<1	----	<5	----	----	----	----
GMW-43	05/03/07	BT for Parsons	----	----	<0.50	<0.50	<0.50	<1	----	8.0	----	----	----	----
GMW-43	11/15/07	BT for Parsons	----	----	<0.50	<0.50	<0.50	<1	----	<5	----	----	----	----
GMW-43	04/17/08	BT for Parsons	----	----	<0.50	<0.50	<0.50	<1	----	<5	----	----	----	----
GMW-43	10/16/08	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-43	04/23/09	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	----	<0.50	----	<0.50	<0.50	<0.50
GMW-43	10/21/09	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-43	04/15/10	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	----	<0.50	<10	<2	<2	<2
GMW-43	10/08/10	BT for Parsons	----	----	<0.50	----	----	----	<0.50	<0.50	<10	----	----	----
GMW-43	04/11/11	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-43	10/11/11	Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-43	04/16/12	Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	19	<2	<2	<2
GMW-43	10/16/12	Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-43	04/08/13	Parsons	----	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-43	10/07/13	Parsons	<100	180 HD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-43	04/14/14	Parsons	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-43	10/27/14	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-43	04/22/15	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-43	04/17/17	SGI	<100	550	<0.50	<0.50	0.98	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-44	11/27/96	GSI	820	<500	<0.50	<0.50	<0.50	<1	----	----	----	----	----	----
GMW-44	07/10/97	GTI	68	1,100	<0.50	<1	<1	<2	----	----	----	----	----	----
GMW-44	01/06/98	GTI	<500	700	<0.30	<0.30	<0.30	<0.60	----	----	----	----	----	----
GMW-44	05/21/98	BBC	<300	----	<0.30	<0.30	<0.30	<0.60	----	----	----	----	----	----
GMW-44	11/05/98	GTI	<300	----	<0.30	<0.30	<0.30	<0.60	----	----	----	----	----	----
GMW-44	05/27/99	GTI	<300	----	<0.30	<0.30	<0.30	<0.60	----	----	----	----	----	----
GMW-44	11/18/99	IT Corporation	<300	----	<0.30	<0.30	<0.30	<0.60	----	----	----	----	----	----
GMW-44	05/17/00	IT Corporation	<300	----	<0.30	<0.30	<0.30	1.9	----	----	----	----	----	----
GMW-44	11/30/00	IT Corporation	<300	----	0.98	<0.30	0.95	<0.60	----	<5	----	----	----	----
GMW-44	05/09/01	IT Corporation	<300	----	<0.30	<0.30	<0.30	<0.60	----	<5	----	----	----	----
GMW-44	11/07/01	IT Corporation	<300	----	<0.30	<0.30	<0.30	<0.60	----	<5	----	----	----	----
GMW-44	04/11/02	IT Corporation	<300	----	<0.30	<0.30	<0.30	<0.60	----	<5	----	----	----	----
GMW-44	10/23/02	GTI	<300	----	<0.30	<0.30	<0.30	<0.30	----	<5	----	----	----	----
GMW-44	04/14/03	GTI	----	----	<1	<1	<1	<2	----	<3	----	----	----	----
GMW-44	10/08/03	BT for Parsons	----	----	<0.30	<0.30	<0.30	<0.30	----	<5	----	----	----	----
GMW-44	04/21/04	BT for Parsons	----	----	<0.50	<1	<1	<1	----	<1	----	----	----	----
GMW-44	11/04/04	BT for Parsons	----	----	<0.30	<0.30	<0.30	<0.30	----	<5	----	----	----	----
GMW-44	05/06/05	BT for Parsons	----	----	0.45	0.68	<0.30	<0.30	----	<5	----	----	----	----
GMW-44	11/08/05	BT for Parsons	----	----	<0.30	<0.30	<0.30	0.39	----	<5	----	----	----	----
GMW-44	05/04/06	BT for Parsons	----	----	<0.30	<0.30	<0.30	<0.30	----	<5	----	----	----	----

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Xylenes	1,2-DCA	MTBE	TBA	DIPE	ETBE	TAME
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
GMW-44	12/08/06	BT for Parsons	----	----	<0.50	<0.50	<0.50	<1	----	<5	----	----	----	----
GMW-44	05/04/07	BT for Parsons	----	----	<0.50	<0.50	<0.50	<1	----	8.3	----	----	----	----
GMW-44	11/15/07	BT for Parsons	----	----	<0.50	<0.50	<0.50	<1	----	<5	----	----	----	----
GMW-44	04/17/08	BT for Parsons	----	----	<0.50	<0.50	<0.50	<1	----	<5	----	----	----	----
GMW-44	10/16/08	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-44	04/23/09	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	----	<0.50	----	<0.50	<0.50	<0.50
GMW-44	10/21/09	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-44	04/15/10	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	----	<0.50	<10	<2	<2	<2
GMW-44	10/08/10	BT for Parsons	----	----	<0.50	----	----	----	<0.50	<0.50	<10	----	----	----
GMW-44	04/11/11	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-44	10/11/11	Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-44	04/16/12	Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	10	<2	<2	<2
GMW-44	10/16/12	Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-44	04/08/13	Parsons	----	100 b	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-44	10/07/13	Parsons	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-44	04/14/14	Parsons	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-44	10/27/14	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-44	04/22/15	SGI	<100	170	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-44	10/05/16	SGI	<100	170	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-44	04/20/17	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-44	10/03/17	SGI	<100	130	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-45	11/22/96	GSI	23,000	<500	1,100	230	580	2,900	<0.50	----	----	----	----	----
GMW-45	07/09/97	GTI	1,100	2,700	330	<5	280	930	----	----	----	----	----	----
GMW-45	01/06/98	GTI	3,200	3,400	286	1.3	188	543	----	----	----	----	----	----
GMW-45	05/20/98	BBC	4,200	----	270	221	109	569	----	----	----	----	----	----
GMW-45	11/05/98	GTI	1,400	----	81	<0.30	40	75	----	----	----	----	----	----
GMW-45	05/27/99	GTI	3,750	----	420	<0.60	180	390	----	----	----	----	----	----
GMW-45	11/18/99	IT Corporation	3,960	----	380	<3	140	100	----	----	----	----	----	----
GMW-45	05/17/00	IT Corporation	5,200	----	620	8.0	87	37	----	----	----	----	----	----
GMW-45	11/29/00	IT Corporation	2,400	----	330	1.3	6.0	4.0	----	<10	----	----	----	----
GMW-45	05/09/01	IT Corporation	6,500	----	620	74	51	420	----	<50	----	----	----	----
GMW-45	11/07/01	IT Corporation	5,700	----	730	<3	8.5	19	----	<50	----	----	----	----
GMW-45	04/10/02	IT Corporation	9,800	----	900	21	69	240	----	240	----	----	----	----
GMW-45	10/23/02	GTI	3,200	----	770	5.5	120	290	----	<5	----	----	----	----
GMW-45	04/10/03	GTI	----	----	344	11	5.6	10	----	<6	----	----	----	----
GMW-45	10/08/03	BT for Parsons	----	----	470	<0.60	6.5	3.7	----	<10	----	----	----	----
GMW-45	04/21/04	BT for Parsons	----	----	140	<1	2.5	<1	----	<1	----	----	----	----
GMW-45	11/04/04	BT for Parsons	----	----	84	<0.30	3.0	2.9	----	<5	----	----	----	----
GMW-45	05/05/05	BT for Parsons	----	----	670	17	520	720	----	<50	----	----	----	----
GMW-45	11/05/05	BT for Parsons	----	----	340	0.46	130	250	----	10	----	----	----	----
GMW-45	05/03/06	BT for Parsons	----	----	76	4.1	11	16	----	<5	----	----	----	----
GMW-45	12/05/06	BT for Parsons	----	----	67	1.9	3.6	6.4	----	<5	----	----	----	----
GMW-45	05/02/07	BT for Parsons	----	----	37	0.56	2.0	3.0	----	11	----	----	----	----
GMW-45	11/14/07	BT for Parsons	----	----	42	<0.50	<0.50	<1	----	9.6	----	----	----	----
GMW-45	04/16/08	BT for Parsons	----	----	21	0.52	1.4	2.9	----	<5	----	----	----	----
GMW-45	10/15/08	BT for Parsons	----	----	9.7	<0.50	1.9	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-45	04/21/09	BT for Parsons	----	----	11	<2	<2	<2	----	<2	----	----	----	----
GMW-45	10/21/09	BT for Parsons	----	----	15	<0.50	2.2	<0.50	<0.50	<0.50	11	<2	<2	<2
GMW-45	04/12/10	BT for Parsons	----	----	85	<0.50	2.6	0.28	----	<0.50	11	<2	<2	<2
GMW-45	10/07/10	BT for Parsons	----	----	53	----	----	----	<0.50	<0.50	15	----	----	----
GMW-45	04/14/11	BT for Parsons	----	----	150	<0.50	3.6	0.94	<0.50	<0.50	<10	<2	<2	<2
GMW-45	10/11/11	Parsons	----	----	43	<0.33	1.8	0.29 J	<0.50	<0.50	41	<2	<2	<2

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-45	04/19/12	Parsons	-----	-----	28	0.24 J	1.9	0.8 J	<0.50	<0.50	28	<2	<2	<2
GMW-45	10/17/12	Parsons	-----	-----	44	<0.50	1.6	<0.50	<0.50	<0.50	20	<2	<2	<2
GMW-45	04/11/13	Parsons	-----	3,400 b	24	<0.50	1.4	0.59 J	<0.50	<0.50	13	<2	<2	<2
GMW-45	10/30/14	SGL	1,500	3,700	0.78	<0.50	0.52	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-45	10/10/16	SGL	2,200	4,500	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-47	11/27/96	GSI	9,600	<500	1,800	<25	160	660	-----	-----	-----	-----	-----	-----
GMW-47	07/09/97	GTI	420	93	350	<1	170	79	-----	-----	-----	-----	-----	-----
GMW-47	01/06/98	GTI	1,900	<100	438	11	75	253	<2.5	<2.5	-----	-----	-----	-----
GMW-47	05/20/98	BBC	<300	-----	1.0	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
GMW-47	11/05/98	GTI	1,700	-----	910	4.9	18	140	-----	-----	-----	-----	-----	-----
GMW-47	05/26/99	GTI	<300	-----	130	<0.30	0.33	3.0	-----	-----	-----	-----	-----	-----
GMW-47	11/18/99	IT Corporation	2,100	-----	1,100	0.77	27	-----	-----	-----	-----	-----	-----	-----
GMW-47	05/17/00	IT Corporation	7,200	-----	2,300	700	200	1,100	-----	-----	-----	-----	-----	-----
GMW-47	11/29/00	IT Corporation	990	-----	280	0.59	2.2	<0.60	-----	<5	-----	-----	-----	-----
GMW-47	03/30/01	IT Corporation	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
GMW-47	05/09/01	IT Corporation	7,600	-----	1,400	110	55	590	-----	16	-----	-----	-----	-----
GMW-47	11/07/01	IT Corporation	1,500	-----	410	8.2	8.7	150	-----	<50	-----	-----	-----	-----
GMW-47	04/10/02	IT Corporation	4,100	-----	710	150	9.2	360	-----	<25	-----	-----	-----	-----
GMW-47	10/23/02	GTI	4,000	-----	430	<5	26	100	<2.5	<5	-----	-----	-----	-----
GMW-47	04/09/03	GTI	-----	-----	1.4	<0.50	<0.50	<0.50	<1	<0.50	-----	-----	-----	-----
GMW-47	09/18/03	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-47	10/08/03	BT for Parsons	140	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-47	02/21/04	BT for Parsons	-----	-----	4.2	<0.50	<0.50	<0.50	---	<0.50	-----	-----	-----	-----
GMW-47	04/21/04	BT for Parsons	160	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-47	07/21/04	BT for Parsons	330	-----	<0.50	<0.50	<0.50	<0.50	-----	<0.50	-----	-----	-----	-----
GMW-47	11/03/04	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-47	03/02/05	BT for Parsons	170	-----	33	<1	5.8	<1	-----	<1	-----	-----	-----	-----
GMW-47	05/05/05	BT for Parsons	420	-----	22	<0.50	6.0	18	<0.50	<0.50	<10	<2	<2	<2
GMW-47	08/04/05	BT for Parsons	<100	-----	3.4	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-47	11/05/05	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-47	03/08/06	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-47	05/03/06	BT for Parsons	<100	-----	2.3	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-47	07/28/06	BT for Parsons	<100	-----	0.95	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-47	12/05/06	BT for Parsons	<100	-----	5.4	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-47	03/23/07	BT for Parsons	<100	-----	11	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-47	05/02/07	BT for Parsons	<100	-----	4.8	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-47	08/31/07	BT for Parsons	<100	-----	1.8	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-47	11/13/07	BT for Parsons	<100	-----	0.83	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-47	02/07/08	BT for Parsons	<100	-----	1.7	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-47	04/16/08	BT for Parsons	<100	-----	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-47	07/29/08	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-47	10/15/08	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-47	02/12/09	BT for Parsons	170	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-47	04/20/09	BT for Parsons	180	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-47	07/20/09	Blaine Tech for AMEC	200	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	15	<2	<2	<2
GMW-47	10/19/09	BT for Parsons	170	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	15	<2	<2	<2
GMW-47	01/11/10	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	17	<2	<2	<2
GMW-47	04/19/10	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	13	<2	<2	<2
GMW-47	10/06/10	BT for Parsons	-----	-----	0.35 J	-----	-----	-----	<0.50	<0.50	16	-----	-----	-----
GMW-47	01/11/11	BT for Parsons	-----	-----	5.2	<0.50	0.75	<0.50	<0.50	1.2	17	<2	<2	<2
GMW-47	04/14/11	BT for Parsons	-----	-----	0.36 J	<0.50	0.27 J	<0.50	<0.50	2.6	<10	<2	<2	<2
GMW-47	07/12/11	Parsons	-----	-----	0.54	<0.50	0.58	<0.50	<0.50	3.8	32	<2	<2	<2

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 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-47	10/11/11	Parsons	-----	-----	0.55	<0.50	0.99	0.32 J	<0.50	6.1	46	<2	<2	<2
GMW-47	01/10/12	Parsons	-----	-----	0.63	<0.50	0.74	0.36 J	<0.50	7.9	110	<2	<2	<2
GMW-47	04/20/12	Parsons	-----	-----	0.52	<0.50	0.68	0.31 J	<0.50	5.0	310	<2	<2	<2
GMW-47	07/10/12	Parsons	-----	-----	0.15 J	<0.50	0.29 J	0.31	<0.50	6.5	250	<2	<2	<2
GMW-47	10/17/12	Parsons	-----	-----	0.46 J	<0.50	0.17 J	<0.50	<0.50	4.5	310	<2	<2	<2
GMW-47	01/15/13	Parsons	-----	580 b	<0.50	<0.50	<0.50	<0.50	<0.50	3.7	320	<2	<2	<2
GMW-47	04/11/13	Parsons	-----	1,500 b	<0.50	<0.50	<0.50	<0.50	<0.50	5.4	150	<2	<2	<2
GMW-47	10/08/13	Parsons	<100	990 HD	<0.50	<0.50	<0.50	<0.50	<0.50	4.8	490	<2	<2	<2
GMW-47	04/16/14	Parsons	<100	1,500 HD	<0.50	<0.50	<0.50	<0.50	<0.50	6.0	280	<2	<2	<2
GMW-47	10/29/14	SGI	<100	2,100	<0.50	<0.50	<0.50	<1.5	<0.50	5.8	130	<2.0	<2.0	<2.0
GMW-47	04/28/15	SGI	<100	2,100	<0.50	<0.50	<0.50	<1.5	<0.50	5.9	350	<2.0	<2.0	<2.0
GMW-47	10/26/15	SGI	<100	1,300	<0.50	<0.50	<0.50	<1.5	<0.50	4.8	31	<2.0	<2.0	<2.0
GMW-47	04/14/16	SGI	<100	450	<0.50	<0.50	<0.50	<1.5	<0.50	5.7	<10	<2.0	<2.0	<2.0
GMW-47	10/07/16	SGI	<100	2,000	<0.50	<0.50	<0.50	<1.5	<0.50	4.9	120	<2.0	<2.0	<2.0
DUP-5 (GMW-47)	10/07/16	SGI	<100	1,900	<0.50	<0.50	<0.50	<1.5	<0.50	5.1	140	<2.0	<2.0	<2.0
GMW-47	04/21/17	SGI	<100	860	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-47	10/04/17	SGI	<100	980	<0.50	<0.50	<0.50	<1.5	<0.50	8.6	410	<2.0	<2.0	<2.0
GMW-48	11/22/96	GSI	56,000	<500	10,000	1,800	1,500	6,900	0.80	-----	-----	-----	-----	-----
GMW-48	10/09/13	Parsons	1,200 HD	3,100 HD	450	0.49 J	1.3	1.5	<0.50	0.78	32	<2	<2	<2
GMW-48	04/17/14	Parsons	1,800 HD	1,900 HD	400	<1.2	1.7	1.3	<1.2	<1.2	44	<5	<5	<5
GMW-48	10/31/14	SGI	2,600	3,100	450	<0.50	2.1	<1.5	<0.50	<2.0	21	<2.0	<2.0	<2.0
GMW-48	04/29/15	SGI	1,000	2,400	300	<2.5	2.5	<5.0	<2.5	<10	<50	<10	<10	<10
GMW-48	10/26/15	SGI	1,500	1,800	170	<2.5	18	126	<2.5	<10	<50	<10	<10	<10
GMW-48	10/11/16	SGI	470	1,100	200	<1.0	<1.0	<3.0	<1.0	<2.0	<20	<4.0	<4.0	<4.0
DUP-8 (GMW-48)	10/11/16	SGI	530	1,100	200	<1.0	<1.0	<3.0	<1.0	<2.0	<20	<4.0	<4.0	<4.0
GMW-48	04/21/17	SGI	460	1,500	190	<0.50	0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-48	10/09/17	SGI	360	1,400	190	<1.0	<1.0	<3.0	<1.0	<2.0	<20	<4.0	<4.0	<4.0
DUP-7 (GMW-48)	10/09/17	SGI	360	1,600	180	<1.0	<1.0	<3.0	<1.0	<2.0	<20	<4.0	<4.0	<4.0
GMW-50	01/10/12	Parsons	-----	-----	48	<0.50	0.24 J	2.5	<0.50	0.47 J	9.6 J	<2	<2	<2
GMW-50	04/14/16	SGI	<100	440	35	<0.50	<0.50	<1.5	<0.50	1.3	<10	<2.0	<2.0	<2.0
GVM-54	04/22/15	SGI	<100	1,800	<0.50	<0.50	<0.50	<1.5	<0.50	2.3	<10	<2.0	<2.0	<2.0
GMW-54	04/21/17	SGI	<100	850	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-56	11/05/98	GTI	<300	-----	<0.30	<0.30	16	<0.60	-----	-----	-----	-----	-----	-----
GMW-56	05/27/99	GTI	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
GMW-56	11/18/99	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
GMW-56	05/17/00	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
GMW-56	11/29/00	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	<5	-----	-----	-----	-----
GMW-56	05/09/01	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	<5	-----	-----	-----	-----
GMW-56	11/07/01	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	<5	-----	-----	-----	-----
GMW-56	04/10/02	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	12	-----	-----	-----	-----
GMW-56	04/10/03	GTI	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-56	10/08/03	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-56	04/21/04	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-56	11/04/04	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-56	05/05/05	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-56	11/05/05	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-56	05/03/06	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-56	12/08/06	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-56	05/02/07	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-56	11/14/07	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-56	04/16/08	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	0.94	<0.50	<0.50	<10	<2	<2	<2
GMW-56	10/15/08	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-56	04/21/09	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-56	10/21/09	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	4.2 J	<2	<2	<2
GMW-56	04/12/10	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-56	04/15/11	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-56	10/08/13	Parsons	<100	190 HD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-56	04/15/14	Parsons	<100	<95	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-56	10/27/14	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-56	04/22/15	SGI	<100	<100	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-56	04/13/16	SGI	<100	<100	<0.50	<0.50	0.62	0.73	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-56	10/04/16	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-56	04/18/17	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
DUP-2 (GMW-56)	04/18/17	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-56	10/03/17	SGI	<100	120	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-57	11/05/98	GTI	<300	-----	12	0.63	4.5	0.97	-----	-----	-----	-----	-----	-----
GMW-57	05/26/99	GTI	379	-----	150	15	12	55	-----	-----	-----	-----	-----	-----
GMW-57	11/18/99	IT Corporation	4,000	-----	950	240	150	750	-----	-----	-----	-----	-----	-----
GMW-57	05/17/00	IT Corporation	17,000	-----	3,200	2,200	750	4,300	-----	-----	-----	-----	-----	-----
GMW-57	11/29/00	IT Corporation	11,000	-----	2,300	21	340	1,800	-----	<100	-----	-----	-----	-----
GMW-57	03/30/01	IT Corporation	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
GMW-57	05/09/01	IT Corporation	28,000	-----	3,300	3,100	690	3,600	-----	<50	-----	-----	-----	-----
GMW-57	11/07/01	IT Corporation	19,000	-----	3,900	1,600	390	3,400	-----	<500	-----	-----	-----	-----
GMW-57	04/10/02	IT Corporation	5,000	-----	720	150	8.2	360	<2.5	<2.5	-----	-----	-----	-----
GMW-57	10/23/02	GTI	1,700	-----	690	<0.30	3.2	5.7	-----	<5	-----	-----	-----	-----
GMW-57	04/09/03	GTI	-----	-----	<1	<1	<1	<2	-----	<3	-----	-----	-----	-----
GMW-57	09/18/03	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-57	10/11/03	BT for Parsons	200	-----	47	<0.50	0.57	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-57	02/21/04	BT for Parsons	-----	-----	190	<0.50	<0.50	<0.50	---	<0.50	-----	-----	-----	-----
GMW-57	04/21/04	BT for Parsons	110	-----	21	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	07/21/04	BT for Parsons	340	-----	48	<0.50	<0.50	<0.50	-----	<0.50	270	57	54	50
GMW-57	11/03/04	BT for Parsons	120	-----	22	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	03/02/05	BT for Parsons	400	-----	190	<1	2.5	<1	-----	<1	-----	-----	-----	-----
GMW-57	05/05/05	BT for Parsons	280	-----	57	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	08/04/05	BT for Parsons	170	-----	120	<0.50	0.54	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	11/05/05	BT for Parsons	120	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	03/08/06	BT for Parsons	180	-----	4.8	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	05/03/06	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	07/28/06	BT for Parsons	180	-----	1.8	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	12/05/06	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	03/23/07	BT for Parsons	120	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	05/02/07	BT for Parsons	120	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	08/31/07	BT for Parsons	110	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	11/13/07	BT for Parsons	160	-----	0.72	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	02/07/08	BT for Parsons	150	-----	4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	04/16/08	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	07/29/08	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	10/15/08	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	02/12/09	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	04/20/09	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	07/21/09	Blaine Tech for AMEC	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	10/19/09	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	8.1 J	<2	<2	<2
GMW-57	01/11/10	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	04/12/10	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-57	10/06/10	BT for Parsons	-----	-----	<0.50	-----	-----	-----	<0.50	<0.50	<10	-----	-----	-----
GMW-57	01/10/11	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	04/11/11	BT for Parsons	-----	-----	1.4	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	07/11/11	Parsons	-----	-----	10	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	10/11/11	Parsons	-----	-----	1.6	<0.50	<0.50	0.48 J	<0.50	<0.50	<10	<2	<2	<2
GMW-57	01/09/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	04/17/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	07/09/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	10/16/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	01/14/13	Parsons	-----	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	04/08/13	Parsons	-----	180 b	<0.50	<0.50	<0.50	<0.50	<0.50	0.54	<10	<2	<2	<2
GMW-57	10/08/13	Parsons	<100	140 HD	0.34 J	<0.50	<0.50	0.99	<0.50	0.74	<10	<2	<2	<2
GMW-57	04/16/14	Parsons	<100	340 HD	<0.50	<0.50	<0.50	<0.50	<0.50	0.68	<10	<2	<2	<2
GMW-57	10/29/14	SGI	140	380	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-57	04/28/15	SGI	<100	310	<0.50	<0.50	<0.50	<1.0	<0.50	3.0	<10	<2.0	<2.0	<2.0
GMW-57	10/22/15	SGI	<100	440	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-57	04/13/16	SGI	<100	400	<0.50	<0.50	0.80	2.8	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-57	10/07/16	SGI	<100	570	<0.50	<0.50	<0.50	<1.5	<0.50	1.4	<10	<2.0	<2.0	<2.0
GMW-57	04/20/17	SGI	<100	670	<0.50	<0.50	<0.50	<1.5	<0.50	1.7	<10	<2.0	<2.0	<2.0
GMW-57	10/04/17	SGI	<100	380	<0.50	<0.50	<0.50	<1.5	<0.50	5.1	52	<2.0	<2.0	<2.0
GMW-58	11/04/98	GTI	2,590	-----	200	210	67	280	-----	-----	-----	-----	-----	-----
GMW-58	05/26/99	GTI	1,360	-----	310	62	42	170	-----	-----	-----	-----	-----	-----
GMW-58	11/18/99	IT Corporation	1,600	-----	82	26	20	100	-----	-----	-----	-----	-----	-----
GMW-58	05/17/00	IT Corporation	21,000	-----	3,500	5,900	730	3,900	-----	-----	-----	-----	-----	-----
GMW-58	03/02/05	BT for Parsons	5,800	-----	1,700	<20	250	400	-----	<20	-----	-----	-----	-----
GMW-58	05/05/05	BT for Parsons	12,000	-----	410	<2.5	13	600	<2.5	<2.5	<50	<10	<10	<10
GMW-58	08/04/05	BT for Parsons	5,800	-----	500	<2.5	56	124	<2.5	<2.5	<50	<10	<10	<10
GMW-58	11/05/05	BT for Parsons	6,300	-----	560	<2.5	380	196	<2.5	<2.5	<50	<10	<10	<10
GMW-58	03/08/06	BT for Parsons	5,300	-----	250	<2.5	140	21	<2.5	<2.5	<50	<10	<10	<10
GMW-58	05/03/06	BT for Parsons	2,900	-----	260	<1	85	27	<1	<1	<20	<4	<4	<4
GMW-58	07/28/06	BT for Parsons	3,200	-----	310	<1	78	23	<1	<1	<20	<4	<4	<4
GMW-58	03/23/07	BT for Parsons	1,700	-----	350	<1	5.9	<1	<1	<1	<20	<4	<4	<4
GMW-58	05/02/07	BT for Parsons	2,200	-----	320	<1	9.5	<1	<1	<1	<20	<4	<4	<4
GMW-58	08/31/07	BT for Parsons	3,000	-----	240	<2.5	<2.5	<2.5	<2.5	<2.5	<50	<10	<10	<10
GMW-58	11/13/07	BT for Parsons	2,000	-----	240	<1	7.4	<1	<1	<1	<20	<4	<4	<4
GMW-58	02/07/08	BT for Parsons	1,100	-----	270	<1	1.8	<1	<1	<1	<20	<4	<4	<4
GMW-58	04/16/08	BT for Parsons	1,100	-----	310	<2.5	<2.5	<2.5	8.4	<2.5	<50	<10	<10	<10
GMW-58	07/29/08	BT for Parsons	870	-----	45	<0.50	<0.50	<0.50	<0.50	0.77	<10	<2	<2	<2
GMW-58	10/15/08	BT for Parsons	1,200	-----	62	<0.50	0.67	0.62	<0.50	<0.50	<10	<2	<2	<2
GMW-58	02/12/09	BT for Parsons	1,000	-----	36	<0.50	0.85	<0.50	<0.50	0.55	<10	<2	<2	<2
GMW-58	04/20/09	BT for Parsons	130	-----	<0.50	<0.50	<0.50	<0.50	<0.50	13	<10	<2	<2	<2
GMW-58	07/20/09	Blaine Tech for AMEC	100	-----	1.2	<0.50	<0.50	<0.50	<0.50	6.4	<10	<2	<2	<2
GMW-58	10/19/09	BT for Parsons	1,000	-----	9.5	<0.50	0.24 J	<0.50	<0.50	1.5	6 J	<2	<2	<2
GMW-58	01/11/10	BT for Parsons	-----	-----	9.7	<0.50	<0.50	<0.50	<0.50	1.7	3.8 J	<2	<2	<2
GMW-58	04/19/10	BT for Parsons	-----	-----	12	<0.50	<0.50	<0.50	<0.50	0.81	5.7 J	<2	<2	<2
GMW-58	10/06/10	BT for Parsons	-----	-----	8.6	-----	-----	-----	<0.50	<0.50	<10	-----	-----	-----
GMW-58	01/10/11	BT for Parsons	-----	-----	5.8	<0.50	<0.50	<0.50	<0.50	0.46 J	<10	<2	<2	<2
GMW-58	04/13/11	BT for Parsons	-----	-----	94	<0.50	0.35 J	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-58	07/11/11	Parsons	-----	-----	31	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-58	10/11/11	Parsons	-----	-----	27	<0.50	<0.50	<0.50	<0.50	0.65	<10	<2	<2	<2
GMW-58	04/18/12	Parsons	-----	-----	28	<0.50	0.18 J	0.48 J	0.82	0.54	<10	<2	<2	<2
GMW-58	07/10/12	Parsons	-----	-----	27	<0.50	<0.50	<0.50	<0.50	0.46 J	18	<2	<2	<2

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-58	10/17/12	Parsons	-----	-----	18	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-58	01/15/13	Parsons	-----	420 b	8.7	<0.50	<0.50	0.32	<0.50	<0.50	17	<2	<2	<2
GMW-58	04/10/13	Parsons	-----	1,600 b	6.7	<0.50	<0.50	<0.50	<0.50	0.46 J	25	<2	<2	<2
GMW-58	10/08/13	Parsons	460 HD	1,200 HD	4.7	<0.50	<0.50	<0.50	<0.50	0.43 J	15	<2	<2	<2
GMW-58	04/16/14	Parsons	600 HD	920 HD	12	<0.50	0.24 J	<0.50	<0.50	0.64	17	<2	<2	<2
GMW-58	10/29/14	SGI	280	340	37	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-58	10/29/14	SGI	260	420	36	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-58	04/28/15	SGI	<100	410	1.1	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-58	04/15/16	SGI	<100	290	1.3	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-58	04/20/17	SGI	150	1,400	1.6	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
DUP-6 (GMW-58)	04/20/17	SGI	100	1,900	1.5	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-58	10/09/17	SGI	<100	960	21	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-59	11/04/98	GTI	9,880	-----	950	600	210	620	-----	-----	-----	-----	-----	-----
GMW-59	11/29/00	IT Corporation	67,000	-----	3,500	900	750	3,600	-----	<130	-----	-----	-----	-----
GMW-59	04/10/03	GTI	-----	-----	261	4.8	18	110	-----	<3	-----	-----	-----	-----
GMW-59	10/08/03	BT for Parsons	-----	-----	760	<3	65	450	-----	<50	-----	-----	-----	-----
GMW-59	04/21/04	BT for Parsons	-----	-----	590	<1	100	276	-----	380	-----	-----	-----	-----
GMW-59	11/03/04	BT for Parsons	-----	-----	95	<0.60	15	18	-----	<10	-----	-----	-----	-----
GMW-59	03/02/05	BT for Parsons	4,200	-----	400	<5	130	22	-----	35	-----	-----	-----	-----
GMW-59	05/05/05	BT for Parsons	11,000	-----	170	<0.50	60	7.8	<0.50	11	<10	<2	<2	<2
GMW-59	08/04/05	BT for Parsons	6,400	-----	140	<1	56	6.6	<1	<1	<20	<4	<4	<4
GMW-59	11/05/05	BT for Parsons	9,500	-----	270	<0.50	26	2.2	<0.50	<0.50	<10	<2	<2	<2
GMW-59	03/08/06	BT for Parsons	4,600	-----	260	<1	7.4	<1	<1	<1	<20	<4	<4	<4
GMW-59	05/03/06	BT for Parsons	9,900	-----	210	<1	4.0	<1	<1	<1	<20	<4	<4	<4
GMW-59	07/28/06	BT for Parsons	3,200	-----	540	<1	3.1	<1	<1	4.8	<20	<4	<4	<4
GMW-59	12/05/06	BT for Parsons	-----	-----	800	4.3	5.2	11	-----	<10	-----	-----	-----	-----
GMW-59	03/23/07	BT for Parsons	8,200	-----	840	<2.5	<2.5	<2.5	<2.5	<2.5	<50	<10	<10	<10
GMW-59	05/02/07	BT for Parsons	4,800	-----	1,100	<2.5	<2.5	<2.5	<2.5	<2.5	<50	<10	<10	<10
GMW-59	08/31/07	BT for Parsons	4,800	-----	720	<2.5	<2.5	<2.5	<2.5	<2.5	<50	<10	<10	<10
GMW-59	11/13/07	BT for Parsons	4,700	-----	660	<5	<5	<5	<5	<5	<100	<20	<20	<20
GMW-59	02/07/08	BT for Parsons	3,200	-----	490	<2.5	3.8	<2.5	<2.5	2.7	<50	<10	<10	<10
GMW-59	04/16/08	BT for Parsons	3,600	-----	580	<2.5	3.5	<2.5	15	3.7	<50	<10	<10	<10
GMW-59	07/29/08	BT for Parsons	2,300	-----	580	<2.5	<2.5	<2.5	<2.5	3.3	<50	<10	<10	<10
GMW-59	10/15/08	BT for Parsons	2,500	-----	830	<2.5	<2.5	<2.5	<2.5	5.5	<50	<10	<10	<10
GMW-59	02/12/09	BT for Parsons	2,500	-----	650	<2.5	<2.5	<2.5	<2.5	3.2	<50	<10	<10	<10
GMW-59	04/20/09	BT for Parsons	8,500	-----	610	<2.5	<2.5	<2.5	<2.5	2.7	<50	<10	<10	<10
GMW-59	07/20/09	Blaine Tech for AMEC	6,700	-----	520	<2.5	<2.5	<2.5	<2.5	3.5	<50	<10	<10	<10
GMW-59	10/21/09	BT for Parsons	2,600	-----	1,700	<2.5	1.4 J	<2.5	<2.5	16	18 J	<10	<10	<10
GMW-59	01/11/10	BT for Parsons	-----	-----	2,200	<10	<10	<10	<10	17	<200	<40	<40	<40
GMW-59	04/19/10	BT for Parsons	2,900	-----	570	<0.50	1.9	<0.50	<0.50	2.3	11	<2	<2	<2
GMW-59	10/06/10	BT for Parsons	850	-----	87	-----	-----	-----	<0.50	3.5	17	-----	-----	-----
GMW-59	01/11/11	BT for Parsons	2,500	-----	1,100	<0.50	1.1	<0.50	<0.50	8.8	23	<2	<2	<2
GMW-59	04/14/11	BT for Parsons	10,000	-----	130	<0.50	0.85	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-59	07/12/11	Parsons	1,400	-----	14	<0.50	0.43 J	<0.50	<0.50	<0.50	8 J	<2	<2	<2
GMW-59	10/11/11	Parsons	<1,800	-----	130	<0.24	0.78	<0.50	<0.50	2.1	13	<2	<2	<2
GMW-59	01/10/12	Parsons	2,800	-----	340	0.24 J	0.54	<0.50	<0.50	5.2	16	<2	<2	<2
GMW-59	04/20/12	Parsons	3,100	-----	870	0.27 J	0.85	0.24 J	<0.50	8.4	36	<2	<2	<2
GMW-59	07/10/12	Parsons	-----	-----	1,100	<5	1.5 J	<5	<5	9.7	<100	<20	<20	<20
GMW-59	10/19/12	Parsons	3,400 HD	-----	1,000	<5	1.8 J	<5	<5	7.8	<100	<20	<20	<20
GMW-59	01/15/13	Parsons	2,400	1,500 b	670	<2.5	1.6 J	<2.5	<2.5	7.4	<50	<10	<10	<10
GMW-59	04/12/13	Parsons	2,500 HD	8,200	680	<2.5	2.2 J	<2.5	<2.5	6.6	<50	<10	<10	<10
GMW-59	10/09/13	Parsons	1,400 HD	3,100 HD	240	<0.50	0.76	0.30	<0.50	5.1	<10	<2	<2	<2

APPENDIX E
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 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-59	04/18/14	Parsons	5,600 HD	7,700 HD	170	<0.50	1.5	0.99	<0.50	3.5	14	<2	<2	<2
GMW-59	11/03/14	SGI	1,500	2,000	300	<0.50	0.93	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-59	04/29/15	SGI	910	1,600	150	<2.5	<2.5	<5.0	<2.5	<10	<50	<10	<10	<10
GMW-59	10/26/15	SGI	3,000	2,600	180	<5.0	34	241	<5.0	<20	<100	<20	<20	<20
GMW-59	04/14/16	SGI	640	3,300	87	<0.50	<0.50	<1.5	<0.50	1.0	<10	<2.0	<2.0	<2.0
DUP-7 (GMW 59)	04/14/16	SGI	530	3,300	86	<0.50	<0.50	<1.5	<0.50	1.0	<10	<2.0	<2.0	<2.0
GMW-59	10/11/16	SGI	470	1,800	110	<1.0	<1.0	<3.0	<1.0	<2.0	<20	<4.0	<4.0	<4.0
GMW-59	04/21/17	SGI	400	1,300	130	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
DUP-7 (GMW-59)	04/21/17	SGI	300	660	84	<0.50	0.68	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-59	10/09/17	SGI	210	960	17	<1.0	<1.0	<3.0	<1.0	<2.0	<20	<4.0	<4.0	<4.0
GMW-60	07/21/04	BT for Parsons	15,000	---	1,700	160	710	2,050	---	<0.50	---	---	---	---
GMW-60	11/03/04	BT for Parsons	12,000	---	1,700	70	900	1,780	<5	<5	<100	<20	<20	<20
GMW-60	03/02/05	BT for Parsons	8,300	---	1,300	<20	860	2,040	---	<20	---	---	---	---
GMW-60	05/05/05	BT for Parsons	9,400	---	1,100	<5	790	1,740	<5	<5	<100	<20	<20	<20
GMW-60	08/04/05	BT for Parsons	6,200	---	1,000	<5	680	1,070	<5	<5	<100	<20	<20	<20
GMW-60	11/05/05	BT for Parsons	7,200	---	970	<5	710	1,130	<5	<5	<100	<20	<20	<20
GMW-60	03/08/06	BT for Parsons	5,900	---	680	<5	640	800	<5	<5	<100	<20	<20	<20
GMW-60	05/03/06	BT for Parsons	3,900	---	770	<5	230	235	<5	<5	<100	<20	<20	<20
GMW-60	07/28/06	BT for Parsons	4,600	---	850	<5	170	102	<5	<5	<100	<20	<20	<20
GMW-60	12/05/06	BT for Parsons	4,100	---	660	<5	130	92	<5	<5	<100	<20	<20	<20
GMW-60	03/23/07	BT for Parsons	3,500	---	490	<2.5	87	80	<2.5	<2.5	<50	<10	<10	<10
GMW-60	05/02/07	BT for Parsons	2,800	---	300	<2.5	18	23	<2.5	<2.5	<50	<10	<10	<10
GMW-60	08/31/07	BT for Parsons	2,000	---	250	<2.5	18	5.9	<2.5	<2.5	<50	<10	<10	<10
GMW-60	11/13/07	BT for Parsons	1,500	---	180	<0.50	21	4.3	<0.50	<0.50	<10	<2	<2	<2
GMW-60	02/07/08	BT for Parsons	1,700	---	270	0.80	65	48	<0.50	<0.50	<10	<2	<2	<2
GMW-60	04/16/08	BT for Parsons	1,400	---	160	<1	24	<1	<1	<1	<20	<4	<4	<4
GMW-60	07/29/08	BT for Parsons	2,000	---	240	<1	3.9	<1	<1	<1	<20	<4	<4	<4
GMW-60	10/15/08	BT for Parsons	1,400	---	220	<1	2.7	<1	<1	<1	<20	<4	<4	<4
GMW-60	02/12/09	BT for Parsons	1,600	---	200	<1	2.5	<1	<1	<1	<20	<4	<4	<4
GMW-60	04/20/09	BT for Parsons	3,500	---	800	<5	7.9	<5	<5	<5	<100	<20	<20	<20
GMW-60	07/20/09	Blaine Tech for AMEC	3,200	---	940	<5	11	<5	<5	<5	<100	<20	<20	<20
GMW-60	10/19/09	BT for Parsons	2,600	---	800	<5	8.8	<5	<5	<5	<100	<20	<20	<20
GMW-60	01/11/10	BT for Parsons	---	---	940	<5	12	<5	<5	<1	<100	<20	<20	<20
GMW-60	04/13/10	BT for Parsons	1,900	---	580	<0.50	8.7	0.26	<0.50	<0.50	<10	<2	<2	<2
GMW-60	10/06/10	BT for Parsons	560	---	770	---	---	---	<0.50	<0.50	<10	---	---	---
GMW-60	01/11/11	BT for Parsons	3,200	---	870	<0.50	12	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-60	04/15/11	BT for Parsons	2,100	---	590	<0.50	9.8	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-60	07/12/11	Parsons	2,200	---	560	<0.50	10	0.27 J	<0.50	<0.50	8.8 J	<2	<2	<2
GMW-60	10/11/11	Parsons	2,300	---	510	<0.50	9.1	0.38 J	<0.50	<0.50	<10	<2	<2	<2
GMW-60	01/10/12	Parsons	2,100	---	210	0.3 J	7.3	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-60	04/20/12	Parsons	1,200	---	13	<0.50	3.1	0.36 J	<0.50	<0.50	14	<2	<2	<2
GMW-60	07/10/12	Parsons	---	---	5.1	<0.50	0.70	0.24	<0.50	<0.50	69	<2	<2	<2
GMW-60	10/17/12	Parsons	630 b	---	1.5	<0.50	0.4 J	<0.50	<0.50	<0.50	280	<2	<2	<2
GMW-60	01/15/13	Parsons	610	460 b	4.3	<0.50	0.37 J	<0.50	<0.50	<0.50	620	<2	<2	<2
GMW-60	04/11/13	Parsons	1,000 b	3,200 b	61	<0.50	1.6	0.73 J	<0.50	<0.50	460	<2	<2	<2
GMW-60	10/09/13	Parsons	920 HD	2,300 HD	25	<0.50	0.70	0.59	<0.50	<0.50	800	<2	<2	<2
GMW-60	04/17/14	Parsons	650	2,700 HD	11	<1	0.3 J	<1	<1	<1	1,200	<4	<4	<4
GMW-60	10/30/14	SGI	470	1,500	8.6	<0.50	<0.50	<1.5	<0.50	<2.0	680	<2.0	<2.0	<2.0
GMW-60	10/30/14	SGI	500	1,800	7.1	<0.50	<0.50	<1.5	<0.50	<2.0	780	<2.0	<2.0	<2.0
GMW-60	04/28/15	SGI	330	2,000	3.1	<0.50	<0.50	<1.0	<0.50	<2.0	1,600	<2.0	<2.0	<2.0
GMW-60	10/26/15	SGI	<100	870	0.98	<0.50	<0.50	<1.5	<0.50	<2.0	43	<2.0	<2.0	<2.0
GMW-60	04/13/16	SGI	110	100	5.1	<0.50	0.69	2.6	<0.50	<1.0	<10	<2.0	<2.0	<2.0

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 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-60	10/07/16	SGI	<100	870	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-60	04/20/17	SGI	220	1,200	26	<0.50	2.4	<1.5	<0.50	<1.0	55	<2.0	<2.0	<2.0
GMW-60	10/9/2017	SGI	<100	430	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-61	07/21/04	BT for Parsons	19,000	-----	2,400	1,700	1,000	4,000	-----	<0.50	-----	-----	-----	-----
GMW-61	11/03/04	BT for Parsons	23,000	-----	2,500	2,200	1,200	5,000	<5	<5	<100	<20	<20	<20
GMW-61	03/02/05	BT for Parsons	20,000	-----	2,700	1,900	1,100	5,900	-----	<20	-----	-----	-----	-----
GMW-61	05/05/05	BT for Parsons	11,000	-----	2,000	310	840	2,500	<10	<10	<200	<40	<40	<40
GMW-61	08/04/05	BT for Parsons	11,000	-----	1,900	740	740	3,500	<10	<10	<200	<40	<40	<40
GMW-61	11/05/05	BT for Parsons	16,000	-----	2,600	480	1,100	4,900	<10	<10	<200	<40	<40	<40
GMW-61	03/08/06	BT for Parsons	11,000	-----	2,100	280	1,000	2,700	<10	<10	<200	<40	<40	<40
GMW-61	05/03/06	BT for Parsons	9,600	-----	1,900	89	810	2,030	<10	<10	<200	<40	<40	<40
GMW-61	07/28/06	BT for Parsons	7,200	-----	1,400	20	460	1,290	<10	<10	<200	<40	<40	<40
GMW-61	12/05/06	BT for Parsons	7,900	-----	1,500	19	330	2,050	<5	<5	<100	<20	<20	<20
GMW-61	03/23/07	BT for Parsons	7,500	-----	1,200	16	220	1,340	<5	<5	<100	<20	<20	<20
GMW-61	05/02/07	BT for Parsons	11,000	-----	1,600	27	290	2,090	<5	<5	<100	<20	<20	<20
GMW-61	08/31/07	BT for Parsons	9,200	-----	1,500	17	190	1,170	<0.50	<0.50	<10	<2	<2	<2
GMW-61	11/13/07	BT for Parsons	2,300	-----	580	6.3	99	360	<5	<5	<100	<20	<20	<20
GMW-61	02/07/08	BT for Parsons	2,600	-----	330	8.6	70	363	<2.5	<2.5	<50	<10	<10	<10
GMW-61	04/16/08	BT for Parsons	2,000	-----	480	5.0	64	399	<2.5	<2.5	<50	<10	<10	<10
GMW-61	07/29/08	BT for Parsons	1,500	-----	400	<2.5	28	129	<2.5	<2.5	<50	<10	<10	<10
GMW-61	10/15/08	BT for Parsons	1,300	-----	450	<2.5	34	150	<2.5	<2.5	<50	<10	<10	<10
GMW-61	02/12/09	BT for Parsons	1,100	-----	340	<2.5	13	57	<2.5	<2.5	<50	<10	<10	<10
GMW-61	04/20/09	BT for Parsons	1,100	-----	490	<2.5	<2.5	<2.5	<2.5	<2.5	<50	<10	<10	<10
GMW-61	07/20/09	Blaine Tech for AMEC	760	-----	350	<2.5	<2.5	<2.5	<2.5	<2.5	<50	<10	<10	<10
GMW-61	10/19/09	BT for Parsons	620	-----	320	<2.5	1.2 J	<2.5	<2.5	<2.5	<50	<10	<10	<10
GMW-61	01/11/10	BT for Parsons	-----	-----	190	<1	0.99 J	<1	<1	<1	<20	<4	<4	<4
GMW-61	04/15/10	BT for Parsons	740	-----	380	<0.50	1.7	<0.50	<0.50	<0.50	3.7 J	<2	<2	<2
GMW-61	10/06/10	BT for Parsons	1,200	-----	100	-----	-----	-----	<0.50	<0.50	<10	-----	-----	-----
GMW-61	01/10/11	BT for Parsons	800	-----	190	<0.50	1.8	0.48	<0.50	<0.50	<10	<2	<2	<2
GMW-61	04/14/11	BT for Parsons	790	-----	110	<0.50	1.2	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-61	07/12/11	Parsons	230	-----	6.4	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-61	10/11/11	Parsons	140	-----	<0.50	<0.70	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-61	01/10/12	Parsons	210	-----	0.15 J	1.1	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-61	04/19/12	Parsons	190	-----	9.1	0.63	0.2 J	0.33 J	<0.50	<0.50	27	<2	<2	<2
GMW-61	07/10/12	Parsons	-----	-----	110	0.29 J	0.87	0.28	<0.50	<0.50	14	<2	<2	<2
GMW-61	10/19/12	Parsons	1500 b	-----	290	0.87	2.5	0.63	<0.50	<0.50	<10	<2	<2	<2
GMW-61	01/15/13	Parsons	130	140 b	2.7	<0.50	<0.50	<0.50	<0.50	<0.50	69	<2	<2	<2
GMW-61	04/11/13	Parsons	<100	340 b	0.43 J	<0.50	<0.50	<0.50	<0.50	<0.50	60	<2	<2	<2
GMW-61	10/08/13	Parsons	130 HD	390 HD	9.4	<0.50	<0.50	<0.50	<0.50	<0.50	210	<2	<2	<2
GMW-61	04/17/14	Parsons	220 HD	190 HD	9.9	<0.50	0.18 J	0.31	<0.50	<0.50	55	<2	<2	<2
GMW-61	10/29/14	SGI	120	200	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	110	<2.0	<2.0	<2.0
GMW-61	04/28/15	SGI	130	260	12	<0.50	<0.50	<1.5	<0.50	<2.0	130	<2.0	<2.0	<2.0
GMW-61	04/14/16	SGI	<100	330	0.65	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-61	10/07/16	SGI	<100	390	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-61	04/20/17	SGI	140	1,200	18	<0.50	<0.50	5.6	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-61	10/09/17	SGI	<100	1,000	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-62	11/14/07	BT for Parsons	4,200	-----	1,400	85	160	92	<5	<5	<100	<20	<20	<20
GMW-62	02/07/08	BT for Parsons	4,100	-----	2,100	190	450	610	<5	<5	<100	<20	<20	<20
GMW-62	04/17/08	BT for Parsons	1,000	-----	430	15	50	24	<5	<5	<100	<20	<20	<20
GMW-62	07/29/08	BT for Parsons	2,400	-----	1,300	33	160	109	<2.5	<2.5	<50	<10	<10	<10
GMW-62	10/15/08	BT for Parsons	2,800	-----	1,700	19	220	161	<5	<5	<100	<20	<20	<20
GMW-62	02/12/09	BT for Parsons	3,600	-----	1,800	5.1	150	164	<5	<5	<100	<20	<20	<20

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-62	04/23/09	BT for Parsons	1,500	-----	370	<2.5	25	5.2	<2.5	<2.5	<50	<10	<10	<10
GMW-62	07/21/09	Blaine Tech for AMEC	1,800	-----	1,200	<2.5	67	36	<2.5	<2.5	<50	<10	<10	<10
GMW-62	10/21/09	BT for Parsons	2,200	-----	1,700	<2.5	43	13	<2.5	<2.5	<50	<10	<10	<10
GMW-62	01/12/10	BT for Parsons	-----	-----	3,900	<10	22	30	100	<1	<200	<40	<40	<40
GMW-62	04/14/10	BT for Parsons	2,400	-----	1,600	0.60	26	45	<0.50	<0.50	<10	<2	<2	<2
GMW-62	10/05/10	BT for Parsons	6,700	-----	1,200	-----	-----	-----	<0.50	<0.50	<10	-----	-----	-----
GMW-63	10/15/08	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-63	02/12/09	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-63	04/23/09	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-63	07/21/09	Blaine Tech for AMEC	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-63	10/22/09	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-63	01/12/10	BT for Parsons	-----	-----	0.39 J	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-63	04/14/10	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-63	10/05/10	BT for Parsons	-----	-----	<0.50	-----	-----	-----	<0.50	<0.50	<10	-----	-----	-----
GMW-63	01/10/11	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-63	04/12/11	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-63	07/11/11	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-63	10/12/11	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-63	01/09/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-63	04/17/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-63	07/09/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-63	10/17/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-63	01/14/13	Parsons	-----	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-63	04/09/13	Parsons	-----	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-63	10/07/13	Parsons	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-63	04/15/14	Parsons	<100	<95	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-63	12/17/14	SGL	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-63	04/20/15	SGL	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-63	10/21/15	SGL	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-63	04/11/16	SGL	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-63	10/03/16	SGL	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-63	04/17/17	SGL	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-63	10/02/17	SGL	<100	170	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-63	10/25/17	SGL	-----	440	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
GMW-64	10/15/08	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-64	02/12/09	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-64	04/23/09	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-64	07/21/09	Blaine Tech for AMEC	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-64	10/21/09	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-64	01/12/10	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-64	04/14/10	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-64	10/05/10	BT for Parsons	-----	-----	<0.50	-----	-----	-----	<0.50	<0.50	<10	-----	-----	-----
GMW-64	01/10/11	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-64	04/12/11	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-64	07/11/11	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-64	10/12/11	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-64	01/09/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-64	04/17/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-64	07/09/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-64	10/17/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-64	01/14/13	Parsons	-----	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-64	04/09/13	Parsons	-----	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2

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 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-64	10/07/13	Parsons	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-64	04/15/14	Parsons	<100	<95	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-64	12/17/14	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-64	04/20/15	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-64	10/21/15	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-64	04/11/16	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-64	10/03/16	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-64	04/17/17	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-64	10/02/17	SGI	<100	220	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-64	10/25/17	SGI	-----	620	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
GMW-65	10/22/09	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-65	01/12/10	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-65	04/14/10	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-65	10/05/10	BT for Parsons	-----	-----	0.32 J	-----	-----	-----	<0.50	<0.50	<10	-----	-----	-----
GMW-65	01/10/11	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-65	04/13/11	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-65	07/11/11	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-65	10/12/11	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-65	01/09/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-65	04/18/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-65	07/09/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-65	10/17/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-65	01/14/13	Parsons	-----	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-65	04/09/13	Parsons	-----	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-65	10/07/13	Parsons	<100	210 HD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-65	04/15/14	Parsons	<100	<95	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-65	12/17/14	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-65	04/20/15	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-65	10/21/15	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-65	04/11/16	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-65	10/03/16	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-65	04/17/17	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-65	10/02/17	SGI	<100	100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-65	10/25/17	SGI	-----	320	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
GMW-66	10/22/09	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-66	04/19/10	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-66	10/06/10	BT for Parsons	-----	-----	<0.50	-----	-----	-----	<0.50	<0.50	<10	-----	-----	-----
GMW-66	04/12/11	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-66	10/12/11	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-66	04/17/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-66	10/17/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-66	04/08/13	Parsons	-----	130 b	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-66	10/07/13	Parsons	<100	150 HD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-66	04/15/14	Parsons	<100	96 HD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-66	10/27/14	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-66R	04/13/16	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-66R	10/04/16	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-66R	04/18/17	SGI	<100	120	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-66R	10/04/17	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-67	07/21/15	SGI	550	<100	21	<0.50	34	74	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-67	10/21/15	SGI	900	140	71	<0.50	110	82	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GMW-67	10/21/15	SGI	970	120	66	<0.50	100	77	<0.50	<2.0	<10	<2.0	<2.0	<2.0

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-67	04/13/16	SGL	310	<100	22	<0.50	73	6.8	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-67	10/03/16	SGL	<100	<100	4.2	<0.50	0.96	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-67	04/17/17	SGL	<100	<100	2.5	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-67	10/02/17	SGL	<100	520	2.6	<0.50	0.70	0.51	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-68	07/22/15	SGL	27,000	100	2,400	56	990	5,200	<10	<40	<200	<40	<40	<40
GMW-68	10/21/15	SGL	17,000	810	2,200	46	800	3,700	<10	<40	<200	<40	<40	<40
GMW-68	04/11/16	SGL	15,000	810	2,300	17	1,200	4,700	<10	<20	<200	<40	<40	<40
GMW-69	07/21/15	SGL	10,000	<100	500	14	550	1,570	<5.0	<20	<100	<20	<20	<20
GMW-69	10/21/15	SGL	2,900	330	350	<5.0	400	380	<5.0	<20	<100	<20	<20	<20
GMW-69	04/11/16	SGL	2,400	350	230	<2.5	390	360	<2.5	<5.0	<50	<10	<10	<10
DUP-1 (GMW 69)	04/11/16	SGL	2,900	340	260	1.3	390	360	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GMW-69	10/03/16	SGL	1,600	210	240	<2.5	290	188	<2.5	<5.0	<50	<10	<10	<10
GMW-69	04/17/17	SGL	740	150	84	<1.0	140	16	<1.0	<2.0	<20	<4.0	<4.0	<4.0
GMW-69	10/02/17	SGL	2,100	380	220	<1.0	210	118	<1.0	<2.0	<20	<4.0	<4.0	<4.0
DUP-1 (GMW-69)	10/02/17	SGL	2,300	340	250	<2.5	250	118	<2.5	<5.0	<50	<10	<10	<10
GMW-69	10/25/17	SGL	-----	830	870	4.8	950	1,000	<2.5	<5.0	<50	<10	<10	<10
GMW-O-1	11/21/96	Terra Services	-----	-----	<0.50	<0.50	<0.50	<1.5	0.53	<5	-----	-----	-----	-----
GMW-O-1	07/09/97	Terra Services	<100	<500	<0.50	<0.50	<0.50	<1	0.85	<5	-----	-----	-----	-----
GMW-O-1	01/06/98	Terra Services	<100	<500	<0.50	<0.50	<0.50	<1.5	<0.50	<5	-----	-----	-----	-----
GMW-O-1	05/20/98	Terra Services	<300	-----	<0.50	<0.50	<0.50	<1	<0.50	<0.50	-----	-----	-----	-----
GMW-O-1	08/24/98	Geomatrix	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-1	11/04/98	Alton Geoscience	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-1	02/02/99	Alton Geoscience	<500	<500	<0.50	<0.50	<0.50	<1	<1	<0.50	-----	-----	-----	-----
GMW-O-1	08/10/99	Alton Geoscience	<500	<1,000	<0.50	<1	<1	<0.50	<1	<0.50	-----	-----	-----	-----
GMW-O-1	11/17/99	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-1	02/29/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-1	05/17/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-1	08/29/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	0.50	<0.50	-----	-----	-----	-----
GMW-O-1	11/28/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-1	02/05/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-1	05/10/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-1	09/19/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-1	11/06/01	Secor	<300	-----	11	<0.50	0.70	0.60	0.50	<0.50	-----	-----	-----	-----
GMW-O-1	01/30/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-1	04/09/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-1	07/30/02	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-1	10/24/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-1	01/28/03	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-1	04/08/03	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-1	07/30/03	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-1	10/08/03	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-1	01/29/04	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-1	04/20/04	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-1	07/20/04	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-1	11/04/04	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-1	02/03/05	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-1	05/04/05	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	1.1	<0.50	-----	-----	-----	-----
GMW-O-1	08/03/05	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-1	11/01/05	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-1	02/28/06	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-1	05/05/06	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-1	09/20/06	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-O-1	12/08/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-1	03/12/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-1	05/04/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-1	08/28/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-1	11/14/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-1	02/20/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-1	04/18/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-1	08/13/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-1	10/17/08	Stantec	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-1	02/23/09	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	----	----	----
GMW-O-1	04/21/09	Blaine Tech for AMEC	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-1	07/20/09	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-1	10/20/09	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-1	03/15/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-1	05/25/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-1	07/12/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-1	10/05/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-1	01/11/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-1	04/12/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-1	07/11/11	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-1	10/10/11	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-1	01/09/12	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-1	04/17/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-1	07/10/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-1	10/16/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-1	01/14/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-1	04/09/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-1	10/09/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-1	04/15/14	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-1	10/29/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-1	04/21/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-1	10/21/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-1	04/12/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-1	10/04/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-1	04/20/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-1	10/04/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-2	11/21/96	Terra Services	----	----	<0.50	<0.50	<0.50	<1.5	12	<5	----	----	----	----
GMW-O-2	07/09/97	Terra Services	<100	<500	<0.50	0.50	<0.50	<1	<0.50	<5	----	----	----	----
GMW-O-2	01/07/98	Terra Services	<100	<500	<0.50	<0.50	<0.50	<1.5	13	<5	----	----	----	----
GMW-O-2	05/20/98	Terra Services	<300	----	<0.50	<0.50	<0.50	<1	14	<0.50	----	----	----	----
GMW-O-2	11/11/98	Alton Geoscience	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-2	05/05/99	Alton Geoscience	<500	<500	<0.50	<0.50	<0.50	<0.50	<1	<0.50	----	----	----	----
GMW-O-2	11/16/99	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-2	05/17/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	1.7	<0.50	----	----	----	----
GMW-O-2	11/28/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	0.60	<0.50	----	----	----	----
GMW-O-2	05/10/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	11	<0.50	----	----	----	----
GMW-O-2	11/06/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	0.60	<0.50	----	----	----	----
GMW-O-2	04/09/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-2	07/30/02	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-2	10/24/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-2	01/15/03	Geomatrix	<300	----	----	----	----	----	----	----	----	----	----	----
GMW-O-2	01/28/03	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	4.1	<0.50	----	----	----	----

APPENDIX E
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 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-O-2	04/08/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	1.0	<0.50	----	----	----	----
GMW-O-2	07/30/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-2	10/08/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-2	01/29/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-2	04/20/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-2	07/20/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-2	11/04/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-2	02/03/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-2	05/04/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	5.0	<0.50	----	----	----	----
GMW-O-2	08/03/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-2	11/01/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-2	02/28/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-2	05/05/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-2	09/20/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-2	12/08/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-2	03/12/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-2	05/03/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-2	08/28/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-2	11/14/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-2	02/20/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-2	04/18/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-2	08/13/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-2	10/16/08	Stantec	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-2	02/23/09	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	----	----	----
GMW-O-2	04/22/09	Blaine Tech for AMEC	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-2	07/21/09	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-2	10/20/09	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-2	03/16/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-2	05/25/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-2	07/13/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-2	10/05/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-2	01/11/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-2	04/12/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-2	07/12/11	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-2	10/10/11	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-2	01/09/12	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-2	04/17/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-2	07/10/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-2	10/16/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-2	01/14/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-2	04/09/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-2	10/09/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-2	04/16/14	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-2	10/29/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-2	04/21/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-2	10/21/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-2	04/12/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-2	10/04/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-2	04/20/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-2	10/04/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-3	11/27/96	Terra Services	----	----	2,900	1,000	1,200	1,950	<10	260	----	----	----	----
GMW-O-3	07/14/97	Terra Services	14,000	1,300	1,500	410	700	1,200	<10	<100	----	----	----	----

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-O-3	01/09/98	Terra Services	3,200	720	930	55	390	599	38	<50	-----	-----	-----	-----
GMW-O-3	05/26/98	Terra Services	5,400	-----	850	20	170	140	<5	<5	-----	-----	-----	-----
GMW-O-3	08/26/98	Geomatrix	3,290	-----	329	31	140	300	<2.5	<2.5	-----	-----	-----	-----
GMW-O-3	11/17/98	Alton Geoscience	4,800	-----	1,500	<100	350	400	<100	<100	-----	-----	-----	-----
GMW-O-3	02/03/99	Alton Geoscience	3,800	<500	250	<2.5	34	17	<5	<2.5	-----	-----	-----	-----
GMW-O-3	05/07/99	Alton Geoscience	2,900	<500	170	1.2	3.4	5.3	<1	<0.50	-----	-----	-----	-----
GMW-O-3	08/10/99	Alton Geoscience	<500	<1,000	56	1.6	2.3	<1	1.2	<1	-----	-----	-----	-----
GMW-O-3	11/17/99	Secor	340	-----	15	0.50	1.9	1.9	<0.50	<0.50	-----	-----	-----	-----
GMW-O-3	02/29/00	Secor	<300	-----	12	<0.50	1.2	1.1	<0.50	<0.50	-----	-----	-----	-----
GMW-O-3	05/17/00	Secor	1,800	-----	290	32	33	180	<0.50	<0.50	-----	-----	-----	-----
GMW-O-3	08/29/00	Secor	580	-----	130	2.5	13	23	<0.50	<0.50	-----	-----	-----	-----
GMW-O-3	11/28/00	Secor	1,500	-----	350	1.3	43	93	<0.50	<0.50	-----	-----	-----	-----
GMW-O-3	02/05/01	Secor	1,800	-----	420	26	40	55	<10	<10	-----	-----	-----	-----
GMW-O-3	05/10/01	Secor	2,000	-----	380	4.5	32	42	<2.5	<2.5	-----	-----	-----	-----
GMW-O-3	09/19/01	Secor	840	-----	230	<2.5	17	11	<2.5	<2.5	-----	-----	-----	-----
GMW-O-3	11/07/01	IT Corporation	520	-----	120	<2.5	7.2	6.0	<2.5	<2.5	-----	-----	-----	-----
GMW-O-3	01/30/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-3	04/09/02	Secor	1,200	-----	260	2.6	13	9.8	<0.50	<0.50	-----	-----	-----	-----
GMW-O-3	07/30/02	IT Corporation	380	-----	150	1.6	5.1	4.6	<0.50	<0.50	-----	-----	-----	-----
GMW-O-3	10/24/02	Secor	310	-----	79	0.65	1.9	1.2	<0.50	<0.50	-----	-----	-----	-----
GMW-O-3	01/15/03	Geomatrix	<300	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
GMW-O-3	01/28/03	Secor	550	-----	140	3.0	9.1	14	<0.50	<0.50	-----	-----	-----	-----
GMW-O-3	04/08/03	Secor	660	-----	170	1.6	9.2	<1	<2	<1	-----	-----	-----	-----
GMW-O-3	07/30/03	Secor	830	-----	200	2.0	18	8.2	<3	<1.5	-----	-----	-----	-----
GMW-O-3	10/08/03	Secor	660	-----	96	0.74	9.6	1.4	<1	<0.50	-----	-----	-----	-----
GMW-O-3	01/29/04	Secor	850	-----	120	0.63	3.0	0.72	<1	<0.50	-----	-----	-----	-----
GMW-O-3	04/20/04	Secor	<50	-----	65	<0.50	<0.50	0.56	<0.50	<0.50	-----	-----	-----	-----
GMW-O-3	07/20/04	Secor	370	-----	29	<0.50	1.4	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-3	11/04/04	Secor	850	-----	71	<0.50	2.7	<0.50	<1	<0.50	-----	-----	-----	-----
GMW-O-3	02/03/05	Secor	210	-----	16	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-3	05/04/05	Secor	380	-----	32	0.67	2.1	4.6	<0.50	<0.50	-----	-----	-----	-----
GMW-O-3	08/03/05	Secor	1,000	-----	4.4	1.1	110	<1	<2	<1	-----	-----	-----	-----
GMW-O-3	11/01/05	Secor	1,300	-----	35	2.3	67	50	<1	<0.50	-----	-----	-----	-----
GMW-O-3	02/28/06	Secor	640	-----	26	<0.50	7.1	6.0	<0.50	<0.50	-----	-----	-----	-----
GMW-O-3	05/04/06	Secor	400	-----	19	<0.50	0.71	1.2	<0.50	<0.50	-----	-----	-----	-----
GMW-O-3	09/19/06	Secor	110	-----	0.71	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-3	12/08/06	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-3	03/13/07	Secor	51	-----	<0.50	<0.50	1.1	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-3	05/03/07	Secor	72	-----	<0.50	<0.50	0.64	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-3	08/28/07	Secor	65	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-3	11/14/07	Secor	170	-----	3.1	<0.50	9.7	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-3	02/07/08	Secor	96	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-3	04/15/08	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-3	08/14/08	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-3	10/16/08	Stantec	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-3	02/23/09	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	-----	-----	-----
GMW-O-3	04/21/09	Blaine Tech for AMEC	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-3	07/21/09	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-3	10/20/09	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-3	03/15/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-3	05/25/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-3	07/12/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-O-3	10/05/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-3	01/11/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-3	04/12/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-3	07/11/11	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-3	10/10/11	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-3	01/09/12	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-3	04/17/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-3	07/10/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-3	10/16/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-3	01/15/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-3	04/09/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-3	10/09/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-3	04/16/14	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-3	10/29/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-3	04/22/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-3	10/21/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-3	04/12/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-3	10/05/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-3	04/20/17	BT for CH2MHill	260	<50	1.3	<0.50	1.9	2.6	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-3	10/04/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-4	11/22/96	Terra Services	----	----	<0.50	<0.50	<0.50	<1.5	<0.50	<5	----	----	----	----
GMW-O-4	07/09/97	Terra Services	<100	<500	<0.50	1.9	<0.50	<1	<0.50	<5	----	----	----	----
GMW-O-4	01/02/98	Terra Services	<100	<500	<0.50	<0.50	<0.50	<1.5	<0.50	<5	----	----	----	----
GMW-O-4	05/21/98	Terra Services	----	----	<0.50	<0.50	<0.50	<1	<0.50	0.70	----	----	----	----
GMW-O-4	11/12/98	Alton Geoscience	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-4	05/06/99	Alton Geoscience	<500	<500	<0.50	<0.50	<0.50	<0.50	<1	<0.50	----	----	----	----
GMW-O-4	11/16/99	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-4	11/17/99	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-4	05/17/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-4	11/29/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-4	05/10/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-4	11/07/01	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-4	04/09/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-4	10/24/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-4	04/09/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-4	10/08/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-4	04/20/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-4	11/04/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-4	05/04/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-4	11/01/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-4	05/04/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-4	12/07/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-4	05/03/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-4	11/15/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-4	04/15/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-4	10/15/08	Stantec	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-4	04/21/09	Blaine Tech for AMEC	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-4	10/20/09	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-4	05/25/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-4	10/05/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-4	04/12/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-4	10/11/11	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-O-4	04/17/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-4	10/16/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-4	04/09/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-4	10/09/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-4	04/16/14	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-4	10/29/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-4	04/22/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-4	10/21/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-4	04/13/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-4	10/05/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-4	04/20/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-4	10/04/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-4 (MID)	11/22/96	Terra Services	-----	-----	<0.50	<0.50	<0.50	<1.5	<0.50	<5	-----	-----	-----	-----
GMW-O-4 (MID)	07/09/97	Terra Services	<100	<500	<0.50	0.99	<0.50	<0.10	<0.50	<5	-----	-----	-----	-----
GMW-O-4 (MID)	01/02/98	Terra Services	<100	<500	<0.50	<0.50	<0.50	<1.5	<0.50	<5	-----	-----	-----	-----
GMW-O-4 (MID)	05/21/98	Terra Services	<300	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
GMW-O-4 (MID)	11/04/98	Alton Geoscience	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-4 (MID)	05/06/99	Alton Geoscience	-----	-----	-----	-----	-----	-----	-----	<0.50	-----	-----	-----	-----
GMW-O-4 (MID)	05/06/99	Alton Geoscience	<500	<500	-----	-----	-----	-----	<1	-----	-----	-----	-----	-----
GMW-O-4 (MID)	05/17/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-4 (MID)	11/28/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-4 (MID)	05/10/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-4 (MID)	11/07/01	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-4 (MID)	04/09/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-4 (MID)	10/24/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-4 (MID)	04/09/03	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-4 (MID)	10/08/03	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-4 (MID)	04/20/04	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-4 (MID)	11/04/04	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-4 (MID)	05/04/05	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-4 (MID)	11/01/05	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-4 (MID)	05/04/06	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-4 (MID)	12/07/06	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-4 (MID)	05/03/07	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-4 (MID)	11/15/07	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-4 (MID)	04/15/08	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-4 (MID)	10/15/08	Stantec	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-4 (MID)	04/21/09	Blaine Tech for AMEC	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-4 (MID)	10/20/09	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-4 (MID)	05/25/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-4 (MID)	10/05/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-4 (MID)	04/12/11	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-4 (MID)	10/11/11	CH2M Hill	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-4 (MID)	04/17/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-4 (MID)	10/16/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-5	11/22/96	Terra Services	-----	-----	11	5.7	9.2	32	<0.50	<5	-----	-----	-----	-----
GMW-O-5	07/09/97	Terra Services	<100	<500	<0.50	1.9	<0.50	<1	<0.50	<5	-----	-----	-----	-----
GMW-O-5	01/07/98	Terra Services	<100	<500	<0.50	<0.50	<0.50	<1.5	<0.50	15	-----	-----	-----	-----
GMW-O-5	05/21/98	Terra Services	-----	-----	<0.50	<0.50	<0.50	<1	<0.50	<0.50	-----	-----	-----	-----
GMW-O-5	08/24/98	Geomatrix	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-5	11/04/98	Alton Geoscience	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
GMW-O-5	11/04/98	Alton Geoscience	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-O-5	02/03/99	Alton Geoscience	<500	<500	<0.50	<0.50	<0.50	<1	<1	<0.50	----	----	----	----
GMW-O-5	05/05/99	Alton Geoscience	<500	<500	<0.50	<0.50	<0.50	<0.50	<1	<0.50	----	----	----	----
GMW-O-5	08/10/99	Alton Geoscience	<500	<1,000	2.3	4.4	<1	2.9	<0.50	<1	----	----	----	----
GMW-O-5	11/16/99	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-5	02/29/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-5	05/17/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-5	08/29/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-5	11/28/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-5	02/05/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-5	05/10/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-5	09/19/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-5	11/07/01	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-5	01/30/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-5	04/09/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-5	10/24/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-5	01/15/03	Geomatrix	<300	----	----	----	----	----	----	----	----	----	----	----
GMW-O-5	04/09/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-5	10/09/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-5	04/21/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-5	11/04/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-5	05/04/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-5	11/01/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-5	05/05/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-5	12/07/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-5	05/03/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-5	11/15/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-5	04/18/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-5	10/15/08	Stantec	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-5	04/21/09	Blaine Tech for AMEC	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-5	10/20/09	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-5	05/25/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-5	10/04/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-5	04/12/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-5	10/11/11	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-5	04/18/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-5	10/16/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-5	04/09/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-5	10/09/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-5	04/16/14	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-5	10/29/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-5	04/22/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-5	10/21/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-5	04/13/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-5	10/04/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-5	04/20/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-5	10/04/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-6	11/22/96	Terra Services	----	----	<0.50	<0.50	<0.50	<1.5	<0.50	<5	----	----	----	----
GMW-O-6	07/09/97	Terra Services	<100	<500	<0.50	0.90	<0.50	<1	<0.50	<5	----	----	----	----
GMW-O-6	01/02/98	Terra Services	<100	<500	<0.50	<0.50	<0.50	<1	<0.50	<5	----	----	----	----
GMW-O-6	05/21/98	Terra Services	----	----	<0.50	<0.50	<0.50	<1	<0.50	<0.50	----	----	----	----
GMW-O-6	11/04/98	Alton Geoscience	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-6	05/05/99	Alton Geoscience	<500	<500	<0.50	<0.50	<0.50	<0.50	<1	<0.50	----	----	----	----

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-O-6	11/17/99	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-6	05/17/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-6	11/28/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	1.9	----	----	----	----
GMW-O-6	05/10/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-6	11/07/01	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-6	04/09/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-6	10/24/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-6	10/09/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-6	05/04/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-6	05/05/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-6	05/04/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-6	04/18/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-6	04/21/09	Blaine Tech for AMEC	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-6	05/26/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-6	04/12/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-6	04/17/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-7	05/07/99	Alton Geoscience	<500	<500	<0.50	<0.50	<0.50	<0.50	<1	<0.50	----	----	----	----
GMW-O-8	10/24/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	1.5	2.4	----	----	----	----
GMW-O-8	01/16/03	Geomatrix	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-8	04/08/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-8	10/08/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-8	04/20/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-8	11/04/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-8	05/04/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-8	11/01/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-8	05/04/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-8	12/08/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-8	05/04/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-8	11/14/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-8	04/18/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-8	10/16/08	Stantec	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-8	04/22/09	Blaine Tech for AMEC	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-8	10/21/09	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-8	05/25/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-8	10/05/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-8	04/12/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-8	10/11/11	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-8	04/18/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-8	10/16/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-9	11/22/96	Terra Services	----	----	<0.50	<0.50	<0.50	<1.5	46	<5	----	----	----	----
GMW-O-9	07/10/97	Terra Services	<100	<500	<0.50	3.6	<0.50	<1	<0.50	<5	----	----	----	----
GMW-O-9	01/07/98	Terra Services	<100	<500	<0.50	<0.50	<0.50	<1.5	<0.50	<5	----	----	----	----
GMW-O-9	05/21/98	Terra Services	----	----	<0.50	<0.50	<0.50	<0.60	12	<0.50	----	----	----	----
GMW-O-9	11/16/98	Alton Geoscience	<300	----	3.0	7.0	1.0	6.0	5.8	<0.50	----	----	----	----
GMW-O-9	05/05/99	Alton Geoscience	<500	<500	<0.50	<0.50	<0.50	<0.50	<1	<0.50	----	----	----	----
GMW-O-9	11/17/99	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	17	<0.50	----	----	----	----
GMW-O-9	05/17/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	72	<0.50	----	----	----	----
GMW-O-9	11/29/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	53	<0.50	----	----	----	----
GMW-O-9	05/10/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	87	<0.50	----	----	----	----
GMW-O-9	11/07/01	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	53	<0.50	----	----	----	----
GMW-O-9	04/09/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-9	10/24/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	35	<0.50	----	----	----	----

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-O-9	04/09/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	50	<0.50	----	----	----	----
GMW-O-9	10/09/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	35	<0.50	----	----	----	----
GMW-O-9	04/20/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	15	<0.50	----	----	----	----
GMW-O-9	11/04/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	9.9	<0.50	----	----	----	----
GMW-O-9	05/06/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	61	<0.50	----	----	----	----
GMW-O-9	11/02/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-9	05/05/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	1.8	<0.50	----	----	----	----
GMW-O-9	12/07/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	2.5	<0.50	----	----	----	----
GMW-O-9	05/04/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-9	11/14/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	5.9	<0.50	----	----	----	----
GMW-O-9	04/18/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-9	10/17/08	Stantec	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-9	04/22/09	Blaine Tech for AMEC	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-9	10/20/09	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-9	05/26/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-9	10/05/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-9	04/12/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-9	10/11/11	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-9	04/17/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-9	10/16/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-9	04/09/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-9	10/10/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-9	04/16/14	CHHL	<50	<50	1.2	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-9	10/29/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-9	04/22/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-9	10/22/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-9	04/13/16	BT for CH2MHill	<50	<50	59	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-9	10/05/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-9	04/20/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-9	10/04/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	3.3	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-10	11/26/96	Terra Services	----	----	450	18	37	22	81	1,300	----	----	----	----
GMW-O-10	07/14/97	Terra Services	17,000	900	4,200	2,800	650	1,600	<30	890	----	----	----	----
GMW-O-10	01/09/98	Terra Services	25,000	12,000	3,900	2,800	510	1,470	<10	1,200	----	----	----	----
GMW-O-10	05/27/98	Terra Services	<300	----	1.0	<0.50	<0.50	0.80	<0.50	1.0	----	----	----	----
GMW-O-10	11/16/98	Alton Geoscience	6,840	----	2,900	540	320	310	<13	2,000	----	----	----	----
GMW-O-10	05/07/99	Alton Geoscience	<500	<500	6.2	<0.50	0.61	<0.50	<1	0.64	----	----	----	----
GMW-O-10	11/16/99	Secor	32,000	----	8,300	5,700	860	2,640	<25	2,600	----	----	----	----
GMW-O-10	05/17/00	Secor	18,000	----	4,500	3,300	450	1,420	<25	1,300	----	----	----	----
GMW-O-10	11/29/00	Secor	18,000	----	4,200	2,900	430	1,260	<25	1,400	----	----	----	----
GMW-O-10	05/10/01	Secor	7,900	----	2,400	810	150	280	<10	950	----	----	----	----
GMW-O-10	11/07/01	IT Corporation	8,100	----	1,200	120	<10	540	<10	1,100	----	----	----	----
GMW-O-10	04/11/02	Secor	960	----	190	18	5.1	157	10	610	----	----	----	----
GMW-O-10	10/24/02	Secor	2,000	----	270	27	<5	60	<5	290	----	----	----	----
GMW-O-10	04/10/03	Secor	13,000	----	3,600	370	460	780	<50	520	----	----	----	----
GMW-O-10	08/01/03	Secor	5,800	----	2,600	220	320	460	20	580	----	----	----	----
GMW-O-10	10/08/03	Secor	4,900	----	1,500	240	160	275	24	460	----	----	----	----
GMW-O-10	04/21/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-10	11/04/04	Secor	8,900	----	3,900	85	400	409	<30	590	----	----	----	----
GMW-O-10	05/06/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-10	11/02/05	Secor	52	----	19	0.50	<0.50	<0.50	1.0	10	----	----	----	----
GMW-O-10	05/05/06	Secor	12,000	----	4,100	1,800	380	640	<50	160	----	----	----	----
GMW-O-10	12/07/06	Secor	8,900	----	4,000	470	320	310	<50	190	----	----	----	----

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-O-10	05/04/07	Secor	3,800	-----	1,600	10	<10	120	<20	160	-----	-----	-----	-----
GMW-O-10	11/14/07	Secor	12,000	-----	5,100	54	340	325	<50	190	-----	-----	-----	-----
GMW-O-10	04/18/08	Secor	1,300	-----	680	<5	14	11	<10	23	-----	-----	-----	-----
GMW-O-10	08/14/08	Secor	1,600	-----	820	5.3	31	42	<10	<5	-----	-----	-----	-----
GMW-O-10	10/21/08	Stantec	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.58	-----	-----	-----	-----
GMW-O-10	04/22/09	Blaine Tech for AMEC	180	-----	37	<0.50	<0.50	<0.50	<0.50	1.2	<10	<1	<1	<1
GMW-O-10	10/22/09	Blaine Tech	99	-----	6.9	<0.50	<0.50	<0.50	<0.50	0.77	<10	<1	<1	<1
GMW-O-10	05/27/10	Blaine Tech	370	-----	77	1.2	<0.50	<0.50	<1	0.87	<10	<1	<1	<1
GMW-O-10	10/07/10	Blaine Tech	380	-----	42	1.2	0.51	<0.50	<0.50	0.79	<10	<1	<1	<1
GMW-O-10	04/13/11	Blaine Tech	270	-----	39	1.0	<0.50	<0.50	<0.50	0.77	<10	<1	<1	<1
GMW-O-10	10/13/11	CH2M Hill	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-10	04/19/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-10	10/19/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-10	04/11/13	CHHL	110	<50	0.54	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-10	10/11/13	CHHL	75	64	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-10	04/17/14	CHHL	140	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-10	10/30/14	BT for CH2MHill	110	51	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-10	10/30/14	BT for CH2MHill	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-10	04/23/15	BT for CH2MHill	160	150	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-10	04/23/15	BT for CH2MHill	110	160	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-10	10/26/15	BT for CH2MHill	160	180 HD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-10	10/26/15	BT for CH2MHill	170	110 HD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-10	04/14/16	BT for CH2MHill	910	89	430	12	16	<2.5	<5	<2.5	<50	<5	<5	<5
DUP-5 (GMW O 10)	04/14/16	BT for CH2MHill	890	78	420	12	16	<2.5	<5	<2.5	<50	<5	<5	<5
GMW-O-10	10/04/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
DUP-2 (GMW-O-10)	10/04/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-10	04/21/17	BT for CH2MHill	<50	52	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-10	10/04/17	BT for CH2MHill	73	<50	28	<0.50	<0.50	<0.50	6.3	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-11	10/04/10	Blaine Tech	10,000	-----	4,200	220	89	170	<30	160	560	32	<30	<30
GMW-O-12	10/05/10	Blaine Tech	23,000	-----	12,000	<50	<50	<50	<100	71	<1,000	<100	<100	<100
GMW-O-12	04/14/11	Blaine Tech	16,000	-----	7,300	<25	<25	<25	<50	25	<500	<50	<50	<50
GMW-O-12	10/13/11	CH2M Hill	20,000	-----	11,000	<100	<100	<100	<200	<100	<2,000	<200	<200	<200
GMW-O-12	04/20/12	CH2M Hill	29,000	260,000	12,000	<50	<50	<50	<100	<50	<1,000	<100	<100	<100
GMW-O-12	10/19/12	CHHL	12,000	120,000	4,700	<25	<25	<25	<50	<25	<500	<50	<50	<50
GMW-O-12	04/12/13	CHHL	34,000	160,000	13,000	<100	<100	<100	<200	<100	<2,000	<200	<200	<200
GMW-O-12	10/11/13	CHHL	30,000	73,000	13,000	<63	<63	<63	<130	<63	<1,300	<130	<130	<130
GMW-O-14	11/27/96	Terra Services	88,000	74,000	4,500	3,200	520	2,600	440	<300	-----	-----	-----	-----
GMW-O-14	07/17/97	Terra Services	160,000	610,000	7,600	4,900	2,200	43,000	<500	<5,000	-----	-----	-----	-----
GMW-O-14	01/09/98	Terra Services	33,000	780,000	7,200	4,500	510	2,300	<30	<300	-----	-----	-----	-----
GMW-O-14	05/27/98	Terra Services	3,500	-----	330	<2.5	80	88	<2.5	<0.50	-----	-----	-----	-----
GMW-O-14	11/17/98	Alton Geoscience	3,850	-----	5,000	3,840	1,040	4,510	<100	<100	-----	-----	-----	-----
GMW-O-14	11/17/98	Alton Geoscience	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
GMW-O-14	05/07/99	Alton Geoscience	23,000	54,000	5,100	3,400	650	2,800	<50	<20	-----	-----	-----	-----
GMW-O-14	11/18/99	Secor	26,000	-----	5,900	4,100	780	2,500	<50	<50	-----	-----	-----	-----
GMW-O-14	05/17/00	Secor	10,000	-----	2,300	630	370	820	<50	<100	-----	-----	-----	-----
GMW-O-14	11/29/00	Secor	42,000	-----	8,800	5,000	1,200	4,400	<50	<50	-----	-----	-----	-----
GMW-O-14	05/10/01	Secor	5,200	-----	100	34	96	237	<1	<1	-----	-----	-----	-----
GMW-O-14	11/07/01	IT Corporation	15,000	-----	3,900	890	640	1,280	<1	<2	-----	-----	-----	-----
GMW-O-14	04/09/02	Secor	38,000	-----	7,400	2,700	990	3,200	<13	24	-----	-----	-----	-----
GMW-O-14	07/30/02	IT Corporation	11,000	-----	4,900	2,300	550	1,890	<13	14	-----	-----	-----	-----
GMW-O-14	10/24/02	Secor	26,000	-----	7,100	3,500	970	3,500	<25	<25	-----	-----	-----	-----
GMW-O-14	01/28/03	Secor	39,000	-----	12,000	8,400	1,500	5,600	<25	38	-----	-----	-----	-----

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g	TPH-d	Benzene	Toluene	Ethyl- benzene	Xylenes	1,2-DCA	MTBE	TBA	DIPE	ETBE	TAME
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
GMW-O-14	03/12/03	Geomatrix	1,500	----	760	72	66	115	<2.5	14	----	----	----	----
GMW-O-14	04/09/03	Secor	33,000	----	5,100	2,900	990	3,300	<40	<20	----	----	----	----
GMW-O-14	07/30/03	Secor	20,000	----	3,100	1,900	790	3,200	74	<15	----	----	----	----
GMW-O-14	10/09/03	Secor	43,000	----	8,700	4,200	1,300	5,300	180	<50	----	----	----	----
GMW-O-14	01/29/04	Secor	55,000	----	13,000	6,900	1,400	5,600	240	<50	----	----	----	----
GMW-O-14	04/20/04	Secor	54,000	----	11,000	5,700	1,500	6,100	170	<50	----	----	----	----
GMW-O-14	07/20/04	Secor	72,000	----	13,000	8,200	1,700	7,400	200	<50	----	----	----	----
GMW-O-14	11/04/04	Secor	41,000	----	9,000	7,000	1,300	5,500	<200	<100	----	----	----	----
GMW-O-14	02/03/05	Secor	34,000	----	8,600	2,300	950	3,100	69	34	----	----	----	----
GMW-O-14	05/04/05	Secor	420	----	11	1.6	18	19	6.5	<0.50	----	----	----	----
GMW-O-14	08/03/05	Secor	15,000	----	160	600	290	1,840	<10	<5	----	----	----	----
GMW-O-14	11/02/05	Secor	14,000	----	320	350	160	2,690	<40	<20	----	----	----	----
GMW-O-14	02/28/06	Secor	8,200	----	860	87	18	1,020	15	<5	----	----	----	----
GMW-O-14	05/05/06	Secor	6,700	----	1,500	77	<10	450	35	<10	----	----	----	----
GMW-O-14	09/20/06	Secor	6,900	----	1,400	250	39	640	30	<10	----	----	----	----
GMW-O-14	12/07/06	Secor	9,000	----	1,400	150	27	501	36	<10	----	----	----	----
GMW-O-14	03/12/07	Secor	4,700	----	1,000	180	26	400	23	<5	----	----	----	----
GMW-O-14	05/04/07	Secor	8,200	----	1,700	330	48	570	44	<10	----	----	----	----
GMW-O-14	08/28/07	Secor	12,000	----	75	110	200	1,000	<5	<2.5	----	----	----	----
GMW-O-14	11/15/07	Secor	16,000	----	320	300	520	2,470	<20	<10	----	----	----	----
GMW-O-14	02/20/08	Secor	35,000	----	7,900	1,900	1,200	3,400	<100	<50	----	----	----	----
GMW-O-14	04/15/08	Secor	26,000	----	4,900	1,800	840	2,800	59	<25	----	----	----	----
GMW-O-14	08/14/08	Secor	25,000	----	4,300	1,100	730	2,800	70	<25	----	----	----	----
GMW-O-14	10/16/08	Stantec	21,000	----	3,200	940	500	3,000	<30	<15	----	----	----	----
GMW-O-14	02/23/09	Blaine Tech	30,000	----	6,100	3,500	1,200	3,900	77	<25	<500	----	----	----
GMW-O-14	04/22/09	Blaine Tech for AMEC	36,000	----	9,300	2,300	1,300	3,500	120	<50	<1,000	170	<100	<100
GMW-O-14	07/22/09	Blaine Tech	32,000	----	7,800	1,900	1,500	4,100	86	<25	<500	130	<50	<50
GMW-O-14	10/23/09	Blaine Tech	40,000	----	14,000	1,900	1,500	3,500	<200	<100	<2,000	<200	<200	<200
GMW-O-14	03/16/10	Blaine Tech	57,000	----	14,000	6,200	1,700	4,700	<200	<100	<2,000	310	<200	<200
GMW-O-14	05/28/10	Blaine Tech	26,000	----	7,900	1,500	370	2,180	110	<25	<500	180	<50	<50
GMW-O-14	07/14/10	Blaine Tech	22,000	----	7,900	420	77	1,500	100	<50	<1,000	130	<100	<100
GMW-O-14	10/07/10	Blaine Tech	16,000	----	5,900	200	220	680	<100	<50	<1,000	<100	<100	<100
GMW-O-14	01/11/11	Blaine Tech	49,000	----	12,000	5,500	1,400	2,700	120	<50	<1,000	190	<100	<100
GMW-O-14	04/13/11	Blaine Tech	26,000	----	8,200	470	680	2,300	<100	<50	<1,000	160	<100	<100
GMW-O-14	07/12/11	CH2M Hill	12,000	----	3,800	50	<25	1,800	<50	<25	<500	<50	<50	<50
GMW-O-14	10/12/11	CH2M Hill	16,000	----	4,000	55	<25	2,500	<50	<25	<500	<50	<50	<50
GMW-O-14	01/09/12	CH2M Hill	38,000	----	9,000	2,200	1,200	4,300	<200	<100	<2,000	<200	<200	<200
GMW-O-14	04/20/12	CH2M Hill	47,000	2,500	11,000	1,100	1,500	5,000	<100	<50	<1,000	170	<100	<100
GMW-O-14	07/10/12	CHHL	48,000	390	12,000	3,500	1,200	3,700	<100	<50	<1,000	270	<100	<100
GMW-O-14	10/18/12	CHHL	15,000	2,700	2,600	1,100	520	1,800	<50	<25	<500	70	<50	<50
GMW-O-14	01/15/13	CHHL	7,700	8,300	1,200	72	420	1,300	<20	<10	<200	25	<20	<20
GMW-O-14	04/11/13	CHHL	27,000	3,700	6,900	200	1,800	2,300	61	<25	<500	180	<50	<50
GMW-O-14	10/11/13	CHHL	54,000	3,000	14,000	760	2,200	3,000	<130	64	<1,300	260	<130	<130
GMW-O-14	04/16/14	CHHL	32,000	1,900	9,700	130	1,500	1,500	<200	<100	<2,000	<200	<200	<200
GMW-O-14	10/31/14	BT for CH2MHill	19,000	1,300	6,600	50	730	350	<50	<25	<500	200	<50	<50
GMW-O-14	10/31/14	BT for CH2MHill	25,000	1,600	6,200	110	710	710	<50	<25	<500	200	<50	<50
GMW-O-14	04/23/15	BT for CH2MHill	15,000	1,100	6,900	59	530	92	<50	26	2,000	220	<50	<50
GMW-O-14	04/23/15	BT for CH2MHill	12,000	870	5,500	47	420	71	<50	<25	<500	180	<50	<50
GMW-O-14	10/26/15	BT for CH2MHill	24,000	890 HD	12,000	<100	570	<100	<200	<100	<2,000	220	<200	<200
GMW-O-14	10/26/15	BT for CH2MHill	25,000	820 HD	12,000	<100	560	<100	<200	<100	<2,000	220	<200	<200
GMW-O-14	04/15/16	BT for CH2MHill	3,200	930	1,300	<10	<10	<10	<20	13	<200	100	<20	<20
DUP-6 (GMW O 14)	04/15/16	BT for CH2MHill	3,400	720	1,400	<10	<10	<10	<20	13	<200	110	<20	<20

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Xylenes	1,2-DCA	MTBE	TBA	DIPE	ETBE	TAME
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
GMW-O-14	10/07/16	BT for CH2MHill	30,000	640	12,000	72	390	290	<100	<50	<1,000	220	<100	<100
DUP-7 (GMW-O-14)	10/07/16	BT for CH2MHill	32,000	530	12,000	85	470	330	<100	<50	<1,000	230	<100	<100
GMW-O-14	04/21/17	BT for CH2MHill	250	620	0.59	<0.50	0.82	2.4	3.7	3.5	15	30	<1.0	<1.0
DUP-7 (GMW-O-14)	04/21/17	BT for CH2MHill	330	680	1.2	<0.50	1.0	2.9	4.5	4.6	19	40	<1.0	1.9
GMW-O-14	10/06/17	BT for CH2MHill	13,000	2,300	5,700	140	190	150	<50	<25	<500	190	<50	<50
DUP-7 (GMW-O-14)	10/06/17	BT for CH2MHill	13,000	2,400	5,700	150	190	150	<50	<25	<500	190	<50	<50
GMW-O-15	10/16/08	Stantec	1,700	-----	550	3.0	37	34	<5	110	-----	-----	-----	-----
GMW-O-15	03/16/10	Blaine Tech	530	-----	10	1.1	0.64	2.7	<0.50	400	<10	<1	<1	<1
GMW-O-15	04/16/10	Blaine Tech	6,700	-----	1,700	54	120	176	<10	1,300	1,800	<10	<10	11
GMW-O-15	05/25/10	Blaine Tech	650	-----	82	16	8.4	44	<2	180	1,500	<2	<2	<2
GMW-O-15	07/13/10	Blaine Tech	580	-----	110	7.5	11	27	<1	300	5,100	<1	<1	1.5
GMW-O-15	08/12/10	Blaine Tech	710	-----	120	4.1	10	34	<1	260	5,300	<1	<1	1.5
GMW-O-15	09/20/10	Blaine Tech	620	-----	120	3.3	13	24	<1	230	6,000	<1	<1	1.4
GMW-O-15	10/05/10	Blaine Tech	14,000	-----	1,800	280	92	760	<20	3,200	3,000	<20	<20	35
GMW-O-15	12/22/10	Blaine Tech	28,000	-----	3,900	610	850	3,000	<40	1,900	1,300	<40	<40	<40
GMW-O-15	01/12/11	Blaine Tech	12,000	-----	1,300	49	280	700	<20	430	12,000	<20	<20	<20
GMW-O-15	02/24/11	Blaine Tech	12,000	-----	700	450	310	1,300	<10	970	4,100	<10	<10	20
GMW-O-15	03/23/11	Blaine Tech	2,400	-----	210	47	39	190	<2	310	3,600	<2	<2	5.2
GMW-O-15	04/29/11	Blaine Tech	1,200	-----	250	27	27	154	<2	350	3,900	<2	<2	2.4
GMW-O-15	05/13/11	Blaine Tech	1,300	-----	200	18	22	127	<2	350	6,600	<2	<2	3.6
GMW-O-15	06/22/11	Blaine Tech	1,800	-----	190	95	34	220	<1	310	6,800	<1	<1	1.8
GMW-O-15	07/12/11	CH2M Hill	1,000	-----	150	17	14	97	<2	220	6,400	<2	<2	<2
GMW-O-15	08/19/11	CH2M Hill	33,000	-----	820	2,200	610	4,400	<50	290	9,200	<50	<50	<50
GMW-O-15	09/22/11	CH2M Hill	3,400	-----	480	290	58	320	<5	640	6,800	<5	<5	10
GMW-O-15	10/13/11	CH2M Hill	3,900	-----	530	290	73	460	<10	220	3,200	<10	<10	<10
GMW-O-15	12/21/11	CH2M Hill	520	-----	110	1.5	5.7	22	<2	79	5,300	<2	<2	<2
GMW-O-15	01/10/12	CH2M Hill	470	-----	110	1.3	6.9	15	<1	86	4,300	<1	<1	1.2
GMW-O-15	02/23/12	CH2M HILL	4,800	-----	340	390	85	600	<5	110	4,000	<5	<5	17
GMW-O-15	03/28/12	CH2M HILL	1,300	120	230	68	13	110	<2	99	4,600	<2	<2	<2
GMW-O-15	04/27/12	CH2M Hill	2,100	1,300	180	67	16	160	<1	49	4,300	<1	<1	1.0
GMW-O-15	05/25/12	CH2M HILL	110,000	24,000	320	270	420	3,400	<100	190	<1,000	<100	<100	100
GMW-O-15	07/11/12	CHHL	17,000	13,000	6,700	63	120	270	<100	1,500	1,600	<100	<100	<100
GMW-O-15	08/29/12	CHHL	190	89	73	1.2	3.3	8.1	<0.50	22	5,300	<1	<1	<1
GMW-O-15	09/26/12	CHHL	220	<50	53	0.74	3.7	7.3	<0.50	17	2,900	<1	<1	<1
GMW-O-15	10/18/12	CHHL	210	140	50	<0.50	3.3	5.9	<1	13	2,600	<1	<1	<1
GMW-O-15	11/29/12	CHHL	380	75	140	1.3	3.0	6.4	<2	33	3,900	<2	<2	<2
GMW-O-15	12/26/12	CHHL	1,400	110	100	23	3.4	20	<0.50	22	3,900	<1	<1	<1
GMW-O-15	01/15/13	CHHL	1,200	<50	240	29	16	45	<3	52	3,100	<3	<3	<3
GMW-O-15	02/20/13	CHHL	230	<50	59	<0.50	2.5	3.2	<1	14	3,100	<1	<1	<1
GMW-O-15	04/12/13	CHHL	460	110	89	2.3	4.6	5.5	<1	36	3,600	<1	<1	<1
GMW-O-15	10/11/13	CHHL	56,000	88,000	7,600	2,300	750	4,100	<100	8,000	7,100	<100	<100	<100
GMW-O-15	10/27/15	BT for CH2MHill	120,000	490,000	12,000	16,000	2,200	12,000	<200	8,800	<2,000	<200	<200	210
GMW O 15	04/14/16	BT for CH2MHill	370,000	82,000	5,700	15,000	4,600	36,000	<200	2,800	3,400	<200	<200	<200
GMW-O-16	11/27/96	Terra Services	-----	-----	570	67	14	360	<5	120	-----	-----	-----	-----
GMW-O-16	07/17/97	Terra Services	<100	<500	<0.50	<0.50	<0.50	<1	<0.50	310	-----	-----	-----	-----
GMW-O-16	01/06/98	Terra Services	<100	<500	<0.50	<0.50	<0.50	<1.5	<0.50	<5	-----	-----	-----	-----
GMW-O-16	05/20/98	Terra Services	<300	-----	<0.50	<0.50	<0.50	<1	<0.50	76	-----	-----	-----	-----
GMW-O-16	11/13/98	Alton Geoscience	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.70	-----	-----	-----	-----
GMW-O-16	05/07/99	Alton Geoscience	<500	<500	0.66	<0.50	<0.50	0.72	<1	7.6	-----	-----	-----	-----
GMW-O-16	11/18/99	Secor	<416	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-16	05/17/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.80	-----	-----	-----	-----
GMW-O-16	11/30/00	Secor	<300	-----	0.80	<0.50	<0.50	<0.50	<0.50	0.60	-----	-----	-----	-----

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-O-16	05/10/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-16	04/10/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-16	10/22/02	Secor	<300	----	1.6	0.98	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-16	04/09/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-16	10/07/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-16	04/22/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-16	07/20/04	Secor	----	----	----	----	----	----	----	----	----	----	----	----
GMW-O-16	11/02/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-16	05/05/05	Secor	92	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-16	08/02/05	Secor	57	----	1.3	<0.50	<0.50	<0.50	<0.50	93	----	----	----	----
GMW-O-16	11/02/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	57	----	----	----	----
GMW-O-16	02/28/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	5.3	----	----	----	----
GMW-O-16	05/04/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	6.3	----	----	----	----
GMW-O-16	09/19/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	0.57	----	----	----	----
GMW-O-16	12/05/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-16	05/05/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-16	11/14/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-16	02/07/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	0.68	----	----	----	----
GMW-O-16	04/16/08	Secor	<50	----	<0.50	1.2	0.59	5.5	<0.50	0.63	----	----	----	----
GMW-O-16	10/14/08	Stantec	<50	----	<0.50	<0.50	<0.50	0.60	<0.50	0.65	----	----	----	----
GMW-O-16	04/23/09	Blaine Tech for AMEC	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	0.55	<10	<1	<1	<1
GMW-O-16	10/21/09	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-16	03/16/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-16	04/16/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-16	05/26/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	0.88	<10	<1	<1	<1
GMW-O-16	07/13/10	Blaine Tech	<50	----	0.73	<0.50	<0.50	<0.50	<0.50	1.9	<10	<1	<1	<1
GMW-O-16	08/12/10	Blaine Tech	<50	----	0.50	<0.50	<0.50	<0.50	<0.50	2.3	<10	<1	<1	<1
GMW-O-16	09/20/10	Blaine Tech	<50	----	0.69	<0.50	<0.50	<0.50	<0.50	3.1	<10	<1	<1	<1
GMW-O-16	10/06/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	<10	<1	<1	<1
GMW-O-16	11/16/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	4.0	<10	<1	<1	<1
GMW-O-16	12/22/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	2.0	<10	<1	<1	<1
GMW-O-16	01/11/11	Blaine Tech	<50	----	0.52	<0.50	<0.50	<0.50	<0.50	0.94	<10	<1	<1	<1
GMW-O-16	02/24/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	0.67	<10	<1	<1	<1
GMW-O-16	03/23/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	1.6	<10	<1	<1	<1
GMW-O-16	04/12/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	<10	<1	<1	<1
GMW-O-16	05/13/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	1.8	<10	<1	<1	<1
GMW-O-16	06/22/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	1.9	<10	<1	<1	<1
GMW-O-16	07/12/11	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	1.8	<10	<1	<1	<1
GMW-O-16	08/19/11	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	1.5	<10	<1	<1	<1
GMW-O-16	09/22/11	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	2.9	<10	<1	<1	<1
GMW-O-16	10/11/11	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	<10	<1	<1	<1
GMW-O-16	11/28/11	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	<10	<1	<1	<1
GMW-O-16	12/21/11	CH2M Hill	<50	----	<0.50	<0.50	<0.50	0.50	<0.50	1.8	<10	<1	<1	<1
GMW-O-16	01/09/12	CH2M Hill	<50	----	<0.50	<0.50	<0.50	1.4	<0.50	3.4	<10	<1	<1	<1
GMW-O-16	02/23/12	CH2M HILL	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	2.3	<10	<1	<1	<1
GMW-O-16	03/28/12	CH2M HILL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.0	<10	<1	<1	<1
GMW-O-16	04/18/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.79	<10	<1	<1	<1
GMW-O-16	05/25/12	CH2M HILL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-16	06/15/12	CH2M HILL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-16	07/10/12	CHHL	<50	<50	2.5	1.1	<0.50	0.70	<0.50	0.57	<10	<1	<1	<1
GMW-O-16	08/29/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-16	09/26/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Xylenes	1,2-DCA	MTBE	TBA	DIPE	ETBE	TAME
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
GMW-O-16	10/17/12	CHHL	<50	<50	<0.50	<0.50	<0.50	0.89	<0.50	0.70	<10	<1	<1	<1
GMW-O-16	11/29/12	CHHL	<50	83	<0.50	<0.50	<0.50	0.56	<0.50	<0.50	<10	<1	<1	<1
GMW-O-16	12/26/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.5	<10	<1	<1	<1
GMW-O-16	01/15/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.95	<10	<1	<1	<1
GMW-O-16	02/20/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	<10	<1	<1	<1
GMW-O-16	04/10/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-16	10/10/13	CHHL	170	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	24	<1	<1	<1
GMW-O-16	04/16/14	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-16	10/29/14	BT for CH2MHill	<50	<50	0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-16	04/22/15	BT for CH2MHill	89	<50	2.5	<0.50	<0.50	<0.50	<0.50	<0.50	22	<1.0	<1.0	<1.0
GMW-O-16	10/22/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW O 16	04/14/16	BT for CH2MHill	<50	310	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-16	10/05/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-16	04/18/17	BT for CH2MHill	66	<50	1.2	<0.50	<0.50	<0.50	<0.50	4.0	<10	<1.0	<1.0	<1.0
GMW-O-16	10/04/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-17	11/22/96	Terra Services	----	----	<0.50	<0.50	<0.50	<1.5	<0.50	<5	----	----	----	----
GMW-O-17	07/10/97	Terra Services	<100	<500	<0.50	0.50	<0.50	<1	<0.50	<5	----	----	----	----
GMW-O-17	01/07/98	Terra Services	<100	<500	<0.50	0.64	<0.50	<1.5	<0.50	<5	----	----	----	----
GMW-O-17	05/21/98	Terra Services	<300	----	<0.50	<0.50	<0.50	<1	<0.50	<0.50	----	----	----	----
GMW-O-17	11/04/98	Alton Geoscience	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-17	05/05/99	Alton Geoscience	<500	<500	0.64	<0.50	<0.50	<0.50	<1	0.58	----	----	----	----
GMW-O-17	11/16/99	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-17	05/17/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-17	11/29/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-17	05/10/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-17	11/07/01	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-17	04/09/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-17	10/24/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-17	10/09/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-17	05/04/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-17	05/05/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-17	05/03/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-17	04/18/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-O-17	04/22/09	Blaine Tech for AMEC	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-17	05/25/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-17	04/13/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-17	04/18/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-17	10/16/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-17	04/09/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	26	<1	<1	<1
GMW-O-17	07/02/13	CHHL	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-17	10/09/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-17	04/15/14	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-17	10/29/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-17	04/21/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-17	10/21/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW O 17	04/12/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-17	10/04/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-17	04/21/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-17	10/04/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-18	11/26/96	Terra Services	----	----	<10	<10	<10	<30	<10	10,000	----	----	----	----
GMW-O-18	07/11/97	Terra Services	<100	<500	<3	<3	<3	<3	<3	3,000	----	----	----	----
GMW-O-18	01/07/98	Terra Services	<100	<500	<5	<5	<5	<15	<5	3,200	----	----	----	----

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017

Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g	TPH-d	Benzene	Toluene	Ethyl- benzene	Xylenes	1,2-DCA	MTBE	TBA	DIPE	ETBE	TAME
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
GMW-O-18	05/21/98	Terra Services	2,000	-----	<100	<100	<100	<200	<100	5,600	-----	-----	-----	-----
GMW-O-18	11/17/98	Alton Geoscience	543	-----	<0.50	1.0	<0.50	2.6	<0.50	1,420	-----	-----	-----	-----
GMW-O-18	05/06/99	Alton Geoscience	2,700	<500	<5	<5	<5	<5	<13	15,000	-----	-----	-----	-----
GMW-O-18	11/18/99	Secor	2,900	-----	<13	<12.5	<12.5	<12.5	<13	6,700	-----	-----	-----	-----
GMW-O-18	05/19/00	Secor	3,500	-----	<25	<25	<25	<25	<25	10,000	-----	-----	-----	-----
GMW-O-18	11/02/05	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	1.4	-----	-----	-----	-----
GMW-O-18	05/09/06	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	2.1	-----	-----	-----	-----
GMW-O-18	12/07/06	Secor	<100	-----	<0.50	<0.50	<0.50	<0.50	<1	0.65	-----	-----	-----	-----
GMW-O-18	05/04/07	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.62	-----	-----	-----	-----
GMW-O-18	11/15/07	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	1.6	-----	-----	-----	-----
GMW-O-18	04/15/08	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-18	10/15/08	Stantec	<200	-----	<1	<1	<1	<1	<2	-----	-----	-----	-----	-----
GMW-O-18	04/23/09	Blaine Tech for AMEC	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	1.0	140	<1	<1	<1
GMW-O-18	10/21/09	Blaine Tech	2,400	-----	170	440	17	410	<5	490	480	<5	<5	<5
GMW-O-18	03/16/10	Blaine Tech	<50	-----	0.60	1.3	<0.50	1.8	<0.50	4.5	550	<1	<1	<1
GMW-O-18	04/16/10	Blaine Tech	1,300	-----	0.67	<0.50	3.1	13	<0.50	1.2	2,400	<1	<1	<1
GMW-O-18	05/25/10	Blaine Tech	110	-----	<0.50	<0.50	<0.50	<0.50	<1	2.9	6,500	<1	<1	<1
GMW-O-18	07/14/10	Blaine Tech	110	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.85	11,000	<1	<1	<1
GMW-O-18	08/12/10	Blaine Tech	220	-----	0.64	<0.50	<0.50	<0.50	<1	0.93	15,000	<1	<1	<1
GMW-O-18	09/20/10	Blaine Tech	290	-----	1.1	<0.50	<0.50	0.55	<1	1.2	23,000	<1	<1	<1
GMW-O-18	10/05/10	Blaine Tech	4,000	-----	1,200	420	23	91	<10	670	2,600	<10	<10	<10
GMW-O-18	11/16/10	Blaine Tech	2,000	-----	<0.50	<0.50	<0.50	<0.50	<1	0.53	21,000	<1	<1	<1
GMW-O-18	01/12/11	Blaine Tech	<3000	-----	<1	<1	<1	<1	<2	<1	29,000	<2	<2	<2
GMW-O-18	02/24/11	Blaine Tech	1,400	-----	60	31	19	85	<0.50	380	1,600	<1	<1	3.9
GMW-O-18	03/23/11	Blaine Tech	110	-----	6.0	1.4	1.1	6.3	<0.50	2.9	3,300	<1	<1	<1
GMW-O-18	04/29/11	Blaine Tech	<50	-----	3.7	<0.50	<0.50	1.7	<0.50	7.5	780	<1	<1	<1
GMW-O-18	05/13/11	Blaine Tech	<100	-----	<0.50	<0.50	<0.50	<0.50	<1	<0.50	<10	<1	<1	<1
GMW-O-18	06/22/11	Blaine Tech	7,500	-----	<0.50	<0.50	<0.50	440	<1	5.5	3,200	<1	<1	<1
GMW-O-18	08/19/11	CH2M Hill	2,600	-----	17	3.9	3.2	40	<2	85	61	<2	<2	<2
GMW-O-18	09/22/11	CH2M Hill	34,000	-----	700	110	690	5,300	<50	400	6,100	<50	<50	54
GMW-O-18	10/14/11	CH2M Hill	6,000	-----	190	13	36	100	<20	1,600	6,600	<20	<20	26
GMW-O-18	11/23/11	CH2M Hill	25,000	-----	65	<10	51	<10	<20	310	6,000	<20	<20	22
GMW-O-18	12/21/11	CH2M Hill	190	-----	<0.50	<0.50	<0.50	0.53	<0.50	70	1,600	<1	<1	<1
GMW-O-18	01/10/12	CH2M Hill	570	-----	100	<0.50	5.3	3.9	<1	110	4,800	<1	<1	2.2
GMW-O-18	02/23/12	CH2M HILL	180	-----	8.8	6.8	0.84	7.8	<0.50	5.9	9,200	<1	<1	<1
GMW-O-18	03/28/12	CH2M HILL	140	<50	<0.50	<0.50	<0.50	<0.50	<1	<0.50	10,000	<1	<1	<1
GMW-O-18	05/25/12	CH2M HILL	<100	<50	<0.50	<0.50	<0.50	<0.50	<1	<0.50	7,700	<1	<1	<1
GMW-O-18	06/15/12	CH2M HILL	180	50	<0.50	<0.50	<0.50	<0.50	<1	0.60	17,000	<1	<1	<1
GMW-O-18	07/11/12	CHHL	180	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	14,000	<1	<1	<1
GMW-O-18	08/30/12	CHHL	71	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	14,000	<1	<1	<1
GMW-O-18	09/26/12	CHHL	55	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	8,900	<1	<1	<1
GMW-O-18	10/30/12	CHHL	110	<50	<0.50	<0.50	<0.50	<0.50	<1	<0.50	11,000	<1	<1	<1
GMW-O-18	11/29/12	CHHL	110	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	10,000	<1	<1	<1
GMW-O-18	12/26/12	CHHL	76	240	22	2.1	0.82	2.4	<0.50	5.5	850	<1	<1	<1
GMW-O-18	01/15/13	CHHL	91	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	8,000	<1	<1	<1
GMW-O-18	04/12/13	CHHL	<100	58	<0.50	0.51	<0.50	0.53	<1	<0.50	4,000	<1	<1	<1
GMW-O-18	10/10/13	CHHL	120	<50	2.2	1.1	<0.50	6.0	<0.50	<0.50	6,000	<1	<1	<1
GMW-O-18	11/03/15	BT for CH2MHill	2,900	49,000	62	150	39	226	<3.0	100	1,800	<3.0	<3.0	<3.0
GMW O 18	04/14/16	BT for CH2MHill	11,000,000	5,900,000	53,000	620,000	310,000	2,300,000	<10,000	6,000	<100,000	<10,000	<10,000	<10,000
GMW-O-19	11/25/96	Terra Services	-----	-----	<0.50	<0.87	2.8	5.1	<0.50	<5	-----	-----	-----	-----
GMW-O-19	07/16/97	Terra Services	<100	<500	<0.50	<0.50	<0.50	<1	<0.50	<5	-----	-----	-----	-----
GMW-O-19	01/06/98	Terra Services	<100	<500	<0.50	<0.50	<0.50	<1.5	<0.50	<5	-----	-----	-----	-----

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-O-19	05/20/98	Terra Services	<300	-----	<0.50	<0.50	<0.50	<1	<0.50	2.0	-----	-----	-----	-----
GMW-O-19	11/12/98	Alton Geoscience	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-19	05/06/99	Alton Geoscience	<500	<500	<0.50	<0.50	<0.50	<0.50	<1	0.51	-----	-----	-----	-----
GMW-O-19	11/18/99	Secor	<416	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	-----	-----	-----	-----
GMW-O-19	05/17/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-19	09/19/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-19	11/07/01	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-19	01/30/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-19	04/09/03	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-19	08/01/03	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-19	10/07/03	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-19	04/22/04	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-19	07/20/04	Secor	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
GMW-O-19	11/02/04	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-19	05/05/05	Secor	510	-----	110	<0.50	17	25	<1	150	-----	-----	-----	-----
GMW-O-19	08/02/05	Secor	160	-----	2.1	<0.50	1.2	<0.50	<0.50	19	-----	-----	-----	-----
GMW-O-19	11/02/05	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-19	02/28/06	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-19	05/04/06	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-19	12/05/06	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-19	05/05/07	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-19	11/15/07	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-19	04/16/08	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-19	10/14/08	Stantec	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-O-19	04/23/09	Blaine Tech for AMEC	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	10/20/09	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	03/15/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	04/16/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	05/26/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	07/13/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	08/12/10	Blaine Tech	<50	-----	0.52	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	09/20/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	10/06/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	11/16/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	12/22/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	01/11/11	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	02/24/11	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	03/23/11	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	04/12/11	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	05/13/11	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	06/22/11	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	07/11/11	CH2M Hill	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	08/19/11	CH2M Hill	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	09/22/11	CH2M Hill	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	10/11/11	CH2M Hill	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	11/28/11	CH2M Hill	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	12/21/11	CH2M Hill	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	01/10/12	CH2M Hill	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	02/23/12	CH2M HILL	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	03/28/12	CH2M HILL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	04/17/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	05/25/12	CH2M HILL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (ug/L)	TPH-d (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Xylenes (ug/L)	1,2-DCA (ug/L)	MTBE (ug/L)	TBA (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)
GMW-O-19	06/15/12	CH2M HILL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	07/10/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	08/29/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	09/26/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	10/16/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	11/29/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	70	<1	<1	<1
GMW-O-19	12/26/12	CHHL	<50	<50	<0.50	<0.50	<0.50	0.52	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	01/15/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	02/20/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	04/09/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	10/09/13	CHHL	110	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	04/15/14	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	10/29/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-19	04/22/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-19	10/22/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW O 19	04/14/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-19	10/05/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-19	04/18/17	BT for CH2MHill	52	<50	2.2	2.8	11	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-19	10/04/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-20	10/05/10	Blaine Tech	46,000	-----	17,000	390	680	2,700	<200	<100	<2,000	<200	<200	<200
GMW-O-20	04/13/11	Blaine Tech	42,000	-----	12,000	170	580	400	<200	<100	<2,000	<200	<200	<200
GMW-O-20	10/13/11	CH2M Hill	34,000	-----	6,300	460	240	850	<100	<50	<1,000	<100	<100	<100
GMW-O-20	04/20/12	CH2M Hill	48,000	230,000	11,000	520	350	2,500	<100	<50	<1,000	<100	<100	<100
GMW-O-20	10/19/12	CHHL	36,000	340,000	6,100	1,000	360	2,700	<50	<25	<500	<50	<50	<50
GMW-O-20	10/07/16	BT for CH2MHill	35,000	95,000	2,700	930	230	4,200	<40	38	<400	<40	<40	<40
GMW-O-20	04/21/17	BT for CH2MHill	2,900	5,900	850	14	24	85	<10	24	<200	<10	<10	<10
GMW-O-20	10/06/17	BT for CH2MHill	6,500	21,000	460	16	36	290	<4.0	7.4	<40	10	<4.0	<4.0
GMW-O-21	10/07/03	Secor	47,000	-----	15,000	5,200	500	3,160	<100	5,200	-----	-----	-----	-----
GMW-O-21	10/08/10	Blaine Tech	66,000	-----	19,000	8,200	1,200	3,800	<200	<100	<2,000	<200	<200	<200
GMW-O-21	04/29/11	Blaine Tech	18,000	-----	7,400	2,400	190	1,940	<50	95	<500	86	<50	<50
GMW-O-21	10/14/11	CH2M Hill	31,000	-----	8,300	4,100	290	2,400	<100	51	<1,000	<100	<100	<100
GMW-O-21	04/19/12	CH2M Hill	32,000	1,200	11,000	4,400	230	3,000	<100	<50	<1,000	<100	<100	<100
GMW-O-21	10/19/12	CHHL	1,200	880	370	71	4.8	66	<2	3.2	96	8.7	<2	<2
GMW-O-21	10/07/16	BT for CH2MHill	18,000	2,000	2,900	21	280	1,600	<40	<20	<400	<40	<40	<40
GMW-O-21	04/21/17	BT for CH2MHill	3,100	1,100	55	5.7	11	180	<2	<1	<20	<2	<2	<2
GMW-O-21	10/06/17	BT for CH2MHill	9,700	750	4,300	<20	22	<20	<40	<20	<400	52	<40	<40
GMW-O-23	10/08/10	Blaine Tech	120,000	-----	22,000	21,000	1,800	8,100	<200	2,600	<2,000	<200	<200	<200
GMW-O-23	04/13/11	Blaine Tech	75,000	-----	15,000	13,000	850	5,800	<200	1,700	<2,000	<200	<200	<200
GMW-O-23	10/13/11	CH2M Hill	65,000	-----	16,000	11,000	540	3,800	<200	1,500	<2,000	<200	<200	<200
GMW-O-23	10/19/12	CHHL	29,000	31,000	7,000	5,000	130	1,900	<100	400	<1,000	<100	<100	<100
GMW-O-23	10/07/16	BT for CH2MHill	2,800	170,000	15	<4.0	9.3	110	<8.0	5.0	<80	<8.0	<8.0	<8.0
GMW-O-23	04/21/17	BT for CH2MHill	1,600	1,300	11	3.6	1.6	220	<2	4.0	<20	3.5	<2	<2
GMW-O-23	10/06/17	BT for CH2MHill	<50	1,300	0.78	<0.50	0.60	2.1	<0.50	0.99	24	4.9	<1.0	<1.0
GMW-O-24	10/16/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.99	<10	<1	<1	<1
GMW-O-24	04/09/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	4.2	<10	<1	<1	<1
GMW-O-24	10/23/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	<10	<1	<1	<1
GMW-O-24	04/15/14	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-24	10/29/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-24	10/29/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-24	04/23/15	BT for CH2MHill	<50	74	0.70	<0.50	<0.50	0.97	<0.50	0.50	20	<1.0	<1.0	<1.0
GMW-O-24	04/23/15	BT for CH2MHill	<50	<50	0.64	<0.50	<0.50	0.98	<0.50	<0.50	16	<1.0	<1.0	<1.0
GMW-O-24	06/30/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.76	<10	<1.0	<1.0	<1.0

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-O-24	10/21/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-24	10/21/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW O 24	04/12/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
DUP-1 (GMW O 24)	04/12/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-24	10/04/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
DUP-1 (GMW-O-24)	10/04/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-24	04/21/17	BT for CH2MHill	<50	<50	0.80	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
DUP-3 (GMW-O-24)	04/21/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-O-24	10/04/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-SF-7	11/25/96	Terra Services	-----	-----	<0.50	<0.50	<0.50	5.8	<0.50	<5	-----	-----	-----	-----
GMW-SF-7	07/11/97	Terra Services	<100	<500	<0.50	<0.50	<0.50	<1	<0.50	8.7	-----	-----	-----	-----
GMW-SF-7	01/02/98	Terra Services	<100	<500	<0.50	<0.50	<0.50	<1.5	<0.50	<5	-----	-----	-----	-----
GMW-SF-7	05/19/98	Terra Services	<300	-----	<0.50	<0.50	<0.50	<1	<0.50	<0.50	-----	-----	-----	-----
GMW-SF-7	11/11/98	Alton Geoscience	<300	-----	0.96	<0.50	0.50	1.3	<0.50	<0.50	-----	-----	-----	-----
GMW-SF-7	05/07/99	Alton Geoscience	<500	<500	1.0	4.1	<0.50	1.8	<1	1.3	-----	-----	-----	-----
GMW-SF-7	11/18/99	Secor	350	-----	<0.50	<0.50	<0.50	<0.50	<0.50	200	-----	-----	-----	-----
GMW-SF-7	05/17/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-SF-7	11/29/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-SF-7	05/08/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-SF-7	11/06/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-SF-7	02/01/02	Secor	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-SF-7	04/10/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	1.9	-----	-----	-----	-----
GMW-SF-7	10/22/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	2.5	-----	-----	-----	-----
GMW-SF-7	01/29/03	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	4.1	-----	-----	-----	-----
GMW-SF-7	04/09/03	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.73	-----	-----	-----	-----
GMW-SF-7	07/30/03	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-SF-7	10/06/03	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-SF-7	01/28/04	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-SF-7	04/20/04	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	32	-----	-----	-----	-----
GMW-SF-7	07/19/04	Secor	550	-----	<1	<1	<1	<1	<2	680	-----	-----	-----	-----
GMW-SF-7	11/02/04	Secor	220	-----	<0.50	<0.50	<0.50	<0.50	<0.50	340	-----	-----	-----	-----
GMW-SF-7	02/02/05	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-SF-7	05/04/05	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-SF-7	08/02/05	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-SF-7	11/01/05	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-SF-7	02/27/06	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-SF-7	05/02/06	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-SF-7	09/18/06	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-SF-7	12/05/06	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-SF-7	03/13/07	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-SF-7	05/05/07	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-SF-7	08/30/07	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-SF-7	11/13/07	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-SF-7	04/16/08	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-SF-7	10/14/08	Stantec	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GMW-SF-7	04/22/09	Blaine Tech for AMEC	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-7	10/21/09	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-7	05/26/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-7	10/06/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-7	04/12/11	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-7	10/11/11	CH2M Hill	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-7	04/17/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1

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 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Xylenes	1,2-DCA	MTBE	TBA	DIPE	ETBE	TAME
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
GMW-SF-7	10/16/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-7	04/10/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-7	10/09/13	CHHL	<50	<50	<0.50	<0.50	<0.50	1.1	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-7	04/15/14	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-7	10/29/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-SF-7	04/22/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	81	<1.0	<1.0	<1.0
GMW-SF-7	10/21/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW SF 7	04/13/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-SF-7	10/05/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-SF-7	04/18/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-SF-7	10/04/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-SF-8	11/22/96	Terra Services	<100	<500	4.5	<1	<1	<3	<1	920	----	----	----	----
GMW-SF-8	07/11/97	Terra Services	<100	<500	<0.50	<0.50	<0.50	<1	<0.50	140	----	----	----	----
GMW-SF-8	01/06/98	Terra Services	<100	<500	4.1	<0.50	<0.50	<1.5	<0.50	450	----	----	----	----
GMW-SF-8	05/22/98	Terra Services	<300	----	<0.50	<0.50	<0.50	<1	<1	0.90	----	----	----	----
GMW-SF-8	11/12/98	Alton Geoscience	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	40	----	----	----	----
GMW-SF-8	05/07/99	Alton Geoscience	<500	<500	<0.50	<0.50	<0.50	<0.50	<1	4.8	----	----	----	----
GMW-SF-8	11/18/99	Secor	660	----	<0.50	<0.50	<0.50	<0.50	<0.50	800	----	----	----	----
GMW-SF-8	05/17/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	42	----	----	----	----
GMW-SF-8	11/30/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	220	----	----	----	----
GMW-SF-8	05/08/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	20	----	----	----	----
GMW-SF-8	11/06/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	260	----	----	----	----
GMW-SF-8	04/10/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	3.8	----	----	----	----
GMW-SF-8	10/22/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	5.2	----	----	----	----
GMW-SF-8	01/29/03	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	1.5	----	----	----	----
GMW-SF-8	04/09/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	6.5	----	----	----	----
GMW-SF-8	07/30/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-SF-8	10/06/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-SF-8	01/27/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-SF-8	04/20/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-SF-8	07/19/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-SF-8	11/03/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-SF-8	02/02/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-SF-8	05/04/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-SF-8	08/01/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-SF-8	11/01/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-SF-8	02/27/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-SF-8	05/02/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-SF-8	09/18/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<1	<0.50	----	----	----	----
GMW-SF-8	12/05/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-SF-8	05/04/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-SF-8	11/14/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-SF-8	04/16/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-SF-8	10/14/08	Stantec	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GMW-SF-8	04/23/09	Blaine Tech for AMEC	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-8	10/21/09	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-8	05/26/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-8	10/06/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-8	04/12/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-8	10/11/11	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-8	04/17/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-8	10/16/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GMW-SF-8	04/10/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-8	10/09/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-8	04/15/14	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-8	10/29/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-SF-8	04/22/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-SF-8	10/22/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW SF 8	04/13/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-SF-8	10/05/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-SF-8	04/18/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-SF-8	10/04/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
GMW-SF-9	09/24/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	9.2	----	----	----	----
GMW-SF-9	10/10/03	Geomatrix	79	----	<0.50	<0.50	<0.50	<0.50	<0.50	14	----	----	----	----
GMW-SF-9	10/07/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-9	04/13/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-9	10/11/11	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	40	<1	<1	<1
GMW-SF-9	10/12/11	CH2M Hill	<100	----	1.5	<0.50	<0.50	<0.50	<1	<0.50	<10	<1	<1	<1
GMW-SF-9	04/19/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	110	<1	<1	<1
GMW-SF-9	10/17/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	270	<1	<1	<1
GMW-SF-10	09/24/03	Secor	90	----	<0.50	<0.50	<0.50	<0.50	<0.50	210	----	----	----	----
GMW-SF-10	10/10/03	Geomatrix	100	----	<0.50	<0.50	<0.50	<0.50	<0.50	120	----	----	----	----
GMW-SF-10	10/07/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-10	04/14/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-10	10/12/11	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-10	04/19/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-10	10/17/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GW-1	10/17/08	BT for Parsons	<100	----	<0.50	<0.50	<0.50	<0.50	0.84	2.3	<10	<2	<2	<2
GW-1	08/03/09	Blaine Tech for AMEC	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-1	04/29/15	SGI	<100	<100	<0.50	<0.50	<0.50	<1.0	4.7	<2.0	<10	<2.0	<2.0	<2.0
GW-1	10/21/15	SGI	<100	<100	2.3	<0.50	4.2	15.2	4.9	<2.0	<10	<2.0	<2.0	<2.0
GW-1	10/21/15	SGI	<100	<100	2.2	<0.50	4.0	14.8	4.7	<2.0	<10	<2.0	<2.0	<2.0
GW-1	10/05/16	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	9.1	<1.0	<10	<2.0	<2.0	<2.0
GW-1	04/19/17	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	1.8	<1.0	<10	<2.0	<2.0	<2.0
DUP-3 (GW-1)	04/19/17	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	2.0	<1.0	<10	<2.0	<2.0	<2.0
GW-2	01/12/10	Blaine Tech for DESC	<100	----	3.6	<0.50	<0.50	<0.50	23	1.8	8.8 J	2.6	<2	<2
GW-2	10/08/10	BT for Parsons	180	----	18	----	----	----	4.6	1.4	21	----	----	----
GW-2	04/19/12	Parsons	<100	----	<0.50	<0.50	<0.50	<0.50	4.0	0.60	<10	<2	<2	<2
GW-2	07/10/12	Parsons	---	----	2.4	<0.50	<0.50	0.24	6.2	0.69	10	0.79 J	<2	<2
GW-2	04/11/13	Parsons	<100	<100	<0.50	<0.50	<0.50	<0.50	11	1.2	<10	0.46 J	<2	<2
GW-2	10/07/13	Parsons	<100	<100	<0.50	<0.50	<0.50	<0.50	4.3	0.55	<10	<2	<2	<2
GW-2	04/15/14	Parsons	<100	<95	<0.50	<0.50	<0.50	<0.50	3.3	0.51	<10	<2	<2	<2
GW-2	11/03/14	SGI	1,800	230	31	4.0	65	346	2.5	<2.0	<10	<2.0	<2.0	<2.0
GW-2	04/21/15	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	2.4	<2.0	<10	<2.0	<2.0	<2.0
GW-2	10/22/15	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	1.1	<2.0	<10	<2.0	<2.0	<2.0
GW 2	04/12/16	SGI	<100	<100	1.0	<0.50	1.9	6.1	1.2	<1.0	<10	<2.0	<2.0	<2.0
GW-2	10/05/16	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	1.6	<1.0	<10	<2.0	<2.0	<2.0
GW-2	04/19/17	SGI	<100	170	<0.50	<0.50	<0.50	<1.5	0.50	<1.0	<10	<2.0	<2.0	<2.0
GW-2	10/05/17	SGI	<100	160	<0.50	<0.50	<0.50	<1.5	1.9	<1.0	<10	<2.0	<2.0	<2.0
GW-3	04/11/03	GTI	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
GW-3	10/11/03	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	2.9	----	----	----	----
GW-3	04/22/04	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	<10	<2	<2	<2
GW-3	11/04/04	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-3	05/10/05	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GW-3	11/08/05	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-3	05/03/06	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-3	12/06/06	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-3	05/03/07	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-3	11/14/07	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-3	04/17/08	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-3	10/16/08	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-3	04/24/09	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	17	<2	<2	<2
GW-3	10/22/09	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-3	04/15/10	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	18	<2	<2	<2
GW-3	04/11/13	Parsons	-----	120	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	9.6 J	<2	<2	<2
GW-3	10/07/13	Parsons	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-3	04/15/14	Parsons	<100	<95	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-3	10/27/14	SGL	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GW-3	04/21/15	SGL	<100	100	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GW-3	10/23/15	SGL	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GW-3	10/23/15	SGL	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GW 3	04/12/16	SGL	<100	<100	1.0	<0.50	2.2	6.9	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GW-3	10/05/16	SGL	<100	100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
DUP-4 (GW-3)	10/05/16	SGL	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GW-3	04/19/17	SGL	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GW-3	10/02/17	SGL	<100	290	2.4	<0.50	6.0	2.0	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GW-3	10/25/17	SGL	-----	240	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GW-4	04/24/15	SGL	<100	270	<0.50	<0.50	<0.50	<1.0	<0.50	2.6	<10	<2.0	<2.0	<2.0
GW-4	04/24/15	SGL	<100	310	<0.50	<0.50	<0.50	<1.0	<0.50	2.9	<10	<2.0	<2.0	<2.0
GW-4	10/22/15	SGL	<100	4,100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GW-4	10/10/16	SGL	<100	120	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GW-6	11/06/98	GTI	339	-----	9.3	1.1	8.4	6.6	<0.50	<0.50	-----	-----	-----	-----
GW-6	05/27/99	GTI	<300	-----	62	<0.50	12	<0.50	<0.50	<0.50	-----	-----	-----	-----
GW-6	11/18/99	IT Corporation	690	-----	90	<1	80	<0.50	<0.50	<0.50	-----	-----	-----	-----
GW-6	05/17/00	IT Corporation	<300	-----	1.7	<0.50	2.5	<0.50	<0.50	19	-----	-----	-----	-----
GW-6	12/01/00	IT Corporation	<300	-----	3.7	<0.50	1.6	<0.50	<0.50	21	-----	-----	-----	-----
GW-6	05/10/01	IT Corporation	<300	-----	0.70	<0.50	<0.50	<0.50	<0.50	23	-----	-----	-----	-----
GW-6	11/08/01	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	21	-----	-----	-----	-----
GW-6	10/24/02	GTI	<300	-----	<0.50	<1	<1	<1	<0.50	9.6	-----	-----	-----	-----
GW-6	04/11/03	GTI	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
GW-6	10/10/03	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.71	-----	-----	-----	-----
GW-6	04/22/04	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-6	11/04/04	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-6	05/10/05	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-6	11/08/05	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-6	05/05/06	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-6	05/02/07	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-6	04/17/08	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-6	10/15/08	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-6	04/21/09	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	1.5	<10	<2	<2	<2
GW-6	10/22/09	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	1.8	<10	<2	<2	<2
GW-6	04/13/10	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.76	<10	<2	<2	<2
GW-6	10/05/10	BT for Parsons	-----	-----	<0.50	-----	-----	-----	<0.50	1.1	4.7 J	-----	-----	-----
GW-6	10/12/11	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.51	<10	<2	<2	<2
GW-6	04/18/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.54	<10	<2	<2	<2
GW-6	10/19/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.67	<10	<2	<2	<2

APPENDIX E
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 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GW-6	04/10/13	Parsons	-----	130 b	<0.50	<0.50	<0.50	<0.50	<0.50	0.68	<10	<2	<2	<2
GW-6	10/08/13	Parsons	<100	180 HD	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	12	<2	<2	<2
GW-6	04/15/14	Parsons	<100	<95	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-6	10/27/14	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GW-6	04/21/15	SGI	<100	250	<0.50	<0.50	<0.50	<1.5	<0.50	3.1	25	<2.0	<2.0	<2.0
GW-6	10/05/16	SGI	<100	140	<0.50	<0.50	<0.50	<1.5	<0.50	1.4	<10	<2.0	<2.0	<2.0
GW-6	04/19/17	SGI	<100	110	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GW-6	10/05/17	SGI	<100	230	<0.50	<0.50	<0.50	<1.5	<0.50	1.9	<10	<2.0	<2.0	<2.0
DUP-5 (GW-6)	10/05/17	SGI	<100	240	<0.50	<0.50	<0.50	<1.5	<0.50	1.7	<10	<2.0	<2.0	<2.0
GW-7	04/12/02	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	1.8	-----	-----	-----	-----
GW-7	04/22/15	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GW-7	04/22/15	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GW-7	10/11/16	SGI	<100	120	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GW-7	04/19/17	SGI	<100	270	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GW-8	10/09/13	Parsons	<100	190 HD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-8	04/18/14	Parsons	<100	100 HD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-8	10/28/14	SGI	<100	180	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GW-8	04/24/15	SGI	<100	170	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GW-8	10/22/15	SGI	<100	110	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GW-8	10/07/16	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GW-8	04/18/17	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GW-8	10/03/17	SGI	<100	150	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GW-13(1*)	11/15/07	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	0.94	3.5	20	<2	<2	<2
GW-13(6*)	05/03/07	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	0.83	5.3	31	<2	<2	<2
GW-13(6*)	04/17/08	BT for Parsons	230	-----	<0.50	<0.50	<0.50	<0.50	0.99	4.4	28	<2	<2	<2
GW-13(6*)	04/24/09	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	14	11	<10	2.1	<2	<2
GW-13(6*)	01/12/10	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	21	4.8	5.2 J	3.7	<2	<2
GW-13(6*)	04/13/10	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	7.4	12	16	1.5 J	<2	<2
GW-13(6*)	10/08/10	BT for Parsons	<100	-----	<0.50	-----	-----	-----	5.0	11	24	-----	-----	-----
GW-13(6*)	04/22/11	BT for Parsons	---	-----	<0.50	<0.50	<0.50	<0.50	3.7	6.8	16	0.72 J	<2	<2
GW-13(6*)	04/18/12	Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	6.9	3.0	<10	1.2 J	<2	<2
GW-13(6*)	07/09/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	0.60	0.78	<10	<2	<2	<2
GW-13(6*)	04/10/13	Parsons	<100	<100	<0.50	<0.50	<0.50	<0.50	9.1	1.7	19	2 J	<2	<2
GW-13(6*)	10/09/13	Parsons	<100	<100	<0.50	<0.50	<0.50	<0.50	2.4	0.92	<10	<2	<2	<2
GW-13(6*)	04/16/14	Parsons	<100	<100	<0.50	<0.50	<0.50	<0.50	9.2	1.4	<10	1.8 J	<2	<2
GW-13(6*)	11/03/14	SGI	1,500	170	9.4	2.4	53	279	7.6	<2.0	<10	<2.0	<2.0	<2.0
GW-13(6*)	04/21/15	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	8.5	<2.0	<10	<2.0	<2.0	<2.0
GW-13(6*)	04/21/15	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	8.5	<2.0	<10	<2.0	<2.0	<2.0
GW-13(6*)	10/22/15	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	6.2	<2.0	<10	<2.0	<2.0	<2.0
GW 13(6*)	04/12/16	SGI	<100	<100	0.57	<0.50	1.6	5.4	6.6	<1.0	<10	<2.0	<2.0	<2.0
GW 13(6*)	10/05/16	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	8.1	<1.0	<10	<2.0	<2.0	<2.0
GW-13(6*)	04/19/17	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	1.7	<1.0	<10	<2.0	<2.0	<2.0
GW-13(6*)	10/05/17	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	1.4	<1.0	<10	<2.0	<2.0	<2.0
GW-14(1*)	11/15/07	BT for Parsons	-----	-----	35	<0.50	14	3.9	<0.50	18	20	<2	<2	<2
GW-14(1*)	04/18/08	BT for Parsons	900	-----	78	<0.50	<0.50	2.3	<0.50	18	13	<2	<2	<2.0
GW-14(1*)	10/22/09	BT for Parsons	110	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-14(1*)	01/13/10	BT for Parsons	950	-----	62	0.35 J	1.0	1.4	<0.50	17	18	<2	<2	<2
GW-14(6*)	05/03/07	BT for Parsons	-----	-----	200	5.2	220	900	-----	39	-----	-----	-----	-----
GW-14(6*)	10/16/08	BT for Parsons	820	-----	40	<0.50	2.1	1.0	<0.50	22	16	<2	<2	<2
GW-14(6*)	04/24/09	BT for Parsons	690	-----	66	<0.50	0.99	0.64	<0.50	13	14	<2	<2	<2
GW-14(6*)	04/15/11	BT for Parsons	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
GW-14(6*)	04/22/11	BT for Parsons	-----	-----	76	<0.50	9.4	9.0	<0.50	17	7.8 J	<2	<2	0.87 J

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Xylenes	1,2-DCA	MTBE	TBA	DIPE	ETBE	TAME
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
GW-14(6")	04/20/12	Parsons	1800 b	-----	19	<0.50	14	6.5	<0.50	8.5	<10	<2	<2	<2
GW-14(6")	07/10/12	Parsons	-----	-----	18	<0.50	16	11	<0.50	8.2	5.1 J	<2	<2	<2
GW-14(6")	04/12/13	Parsons	1800 b	4,800	30	<0.50	8.2	1.34 J	<0.50	13	10	<2	<2	0.82 J
GW-14(6")	10/09/13	Parsons	1,600 HD	3,400 HD	48	<0.50	7.3	1.2	<0.50	15	<10	<2	<2	<2
GW-14(6")	04/17/14	Parsons	2,200 HD	7,700 HD	32	<0.50	8.4	1.2	<0.50	11	64	<2	<2	<2
GW-14(6")	10/31/14	SGI	1,700	3,200	160	<0.50	1.1	0.62	<0.50	20	20	<2.0	<2.0	<2.0
GW-15(6")	05/03/07	BT for Parsons	8,500	---	1,100	1,000	130	570	<0.50	<0.50	<10	<2	<2	<2
GW-15(6")	11/03/14	SGI	32,000	11,000	2,700	78	1,100	5,100	<10	<40	<200	<40	<40	<40
GW-15(6")	04/21/15	SGI	7,700	2,100	250	<10	150	850	<10	<40	<200	<40	<40	<40
GW-15(6")	10/26/15	SGI	7,500	38,000	350	<2.5	120	655	<2.5	<10	<50	<10	<10	<10
GW-15(6")	10/26/15	SGI	7,100	9,700	370	<2.5	120	638	<2.5	<10	<50	<10	<10	<10
GW-15(6")	10/11/16	SGI	8,700	24,000	730	<2.5	<2.5	<7.5	<2.5	<5.0	<50	<10	<10	<10
GW-15(6")	10/09/17	SGI	990	610	550	<5.0	<5.0	10	<5.0	<10	<100	<20	<20	<20
GW-16(6")	10/23/09	BT for Parsons	<100	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-16(6")	01/13/10	BT for Parsons	<100	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6.4 J	<2	<2	<2
GW-16(6")	04/19/10	BT for Parsons	-----	---	<0.50	<0.50	2.6	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-16(6")	10/08/10	BT for Parsons	<100	---	1.7	-----	-----	-----	<0.50	<0.50	5.5 J	-----	-----	-----
GW-16(6")	04/12/11	BT for Parsons	<100	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	76	<2	<2	<2
GW-16(6")	10/09/13	Parsons	<100	1,300 HD	1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-16(6")	04/17/14	Parsons	<100	<98	4.7	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-16(6")	11/03/14	SGI	2,500	250	58	6.0	88	470	<2.0	<10	<10	<2.0	<2.0	<2.0
GW-16(6")	11/03/14	SGI	2,300	290	56	5.6	85	449	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GW-16(6")	04/21/15	SGI	<100	<100	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GW-16(6")	10/21/15	SGI	100	<100	7.1	<0.50	7.4	25.8	<0.50	<2.0	<10	<2.0	<2.0	<2.0
GW 16(6")	04/13/16	SGI	<100	<100	<0.50	<0.50	<0.50	2.3	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GW 16(6")	10/04/16	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GW-16(6")	04/18/17	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GW-16(6")	10/03/17	SGI	<100	<100	2.2	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
GWR-1	11/26/96	Terra Services	-----	-----	1,500	21	150	102	<5	2,700	-----	-----	-----	-----
GWR-1	07/16/97	Terra Services	1,300	920	220	<5	360	29	<5	1,800	-----	-----	-----	-----
GWR-1	01/09/98	Terra Services	210	<500	2.9	<0.50	40	240	<0.50	330	-----	-----	-----	-----
GWR-1	05/27/98	Terra Services	4,100	-----	960	90	90	240	<0.50	630	-----	-----	-----	-----
GWR-1	11/17/98	Alton Geoscience	3,830	-----	1,200	74	99	387	<25	1,070	-----	-----	-----	-----
GWR-1	05/07/99	Alton Geoscience	4,200	530	1,600	22	96	290	<13	910	-----	-----	-----	-----
GWR-1	11/18/99	Secor	1,300	-----	220	<10	14	14	<10	690	-----	-----	-----	-----
GWR-1	05/16/00	Secor	880	-----	160	<10	16	16	6.1	550	-----	-----	-----	-----
GWR-1	11/30/00	Secor	3,200	-----	1,600	8.6	87	33	<0.50	360	-----	-----	-----	-----
GWR-1	05/08/01	Secor	4,400	-----	1,800	170	160	235	<10	370	-----	-----	-----	-----
GWR-1	11/06/01	Secor	2,300	-----	240	13	31	56	<0.50	2,400	-----	-----	-----	-----
GWR-1	04/09/02	Secor	2,500	-----	580	<10	18	57	<10	4,000	-----	-----	-----	-----
GWR-1	10/23/02	Secor	1,900	-----	270	<10	<10	<10	<10	2,500	-----	-----	-----	-----
GWR-1	10/07/03	Secor	1,400	-----	150	1.7	7.5	20	110	1,300	-----	-----	-----	-----
GWR-1	05/06/05	Secor	16,000	-----	260	610	460	2,060	<5	11	-----	-----	-----	-----
GWR-1	08/01/05	Secor	8,300	-----	1,700	490	370	1,110	<20	25	-----	-----	-----	-----
GWR-1	05/04/06	Secor	3,700	-----	980	23	120	343	<10	19	-----	-----	-----	-----
GWR-1	09/18/06	Secor	960	-----	220	4.4	19	64	<2	5.4	-----	-----	-----	-----
GWR-1	05/02/07	Secor	750	-----	170	1.3	12	<1	<2	4.1	-----	-----	-----	-----
GWR-1	04/17/08	Secor	3,600	-----	1,700	17	87	60	<30	21	-----	-----	-----	-----
GWR-1	04/20/09	Blaine Tech for AMEC	5,100	-----	3,000	<15	48	<15	<30	31	<300	30	<30	<30
GWR-1	05/27/10	Blaine Tech	2,100	-----	800	9.5	16	34	<10	23	<100	27	<10	<10
GWR-1	04/13/11	Blaine Tech	1,300	-----	490	43	31	54	<5	4.1	160	5.2	<5	<5
GWR-1	04/20/12	CH2M Hill	450	230	84	<1	4.8	<1	<2	3.4	<20	4.9	<2	<2

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
GWR-1	10/18/12	CHHL	440	240	140	2.2	<1.5	1.5	<3	8.6	68	15	<3	<3
GWR-1	04/11/13	CHHL	<500	330	<2.5	<2.5	<2.5	<2.5	<5	9.1	68	13	<5	<5
GWR-1	10/11/13	CHHL	<200	220	<1	<1	<1	<1	<2	6.7	120	12	<2	<2
GWR-1	04/17/14	CHHL	130	90	<0.50	<0.50	<0.50	<0.50	<0.50	6.6	180	10	<1	<1
GWR-1	10/30/14	BT for CH2MHill	<100	1,000 HD	<0.50	<0.50	<0.50	<0.50	<0.50	8.9	54	5.3	<1.0	<1.0
GWR-1R	04/18/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.72	93	4.7	<1.0	<1.0
DUP-1 (GWR-1R)	04/18/17	BT for CH2MHill	<50	55J	<0.50	<0.50	<0.50	<0.50	0.59	<0.50	82	3.7	<1.0	<1.0
GWR-1R	10/05/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	0.96	<0.50	76	5.2	<1.0	<1.0
DUP-2 (GWR-1R)	10/05/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	1.0	<0.50	100	5.6	<1.0	<1.0
GWR-3	10/08/10	Blaine Tech	21,000	-----	10,000	<100	<100	<100	<200	400	<2,000	<200	<200	<200
GWR-3	04/13/11	Blaine Tech	25,000	-----	11,000	<50	<50	<50	<100	300	<1,000	<100	<100	<100
GWR-3	10/13/11	CH2M Hill	<20,000	-----	9,100	<100	<100	<100	<200	280	<2,000	<200	<200	<200
HL-2	11/27/96	Terra Services	-----	-----	2,600	100	560	390	170	3,000	-----	-----	-----	-----
HL-2	07/16/97	Terra Services	1,400	530	200	1.2	150	13	74	810	-----	-----	-----	-----
HL-2	01/09/98	Terra Services	150	-----	<0.50	0.79	3.5	<1.5	40	570	-----	-----	-----	-----
HL-2	01/12/98	Terra Services	-----	<500	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
HL-2	05/27/98	Terra Services	500	-----	72	9.0	6.0	42	60	308	-----	-----	-----	-----
HL-2	11/17/98	Alton Geoscience	<300	-----	0.95	<0.50	0.60	0.60	0.94	14	-----	-----	-----	-----
HL-2	05/07/99	Alton Geoscience	<500	<500	1.8	5.1	<0.50	1.8	<1	4.8	-----	-----	-----	-----
HL-2	11/19/99	Secor	<300	-----	2.0	<0.50	<0.50	<0.50	2.6	36	-----	-----	-----	-----
HL-2	05/16/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	1.4	14	-----	-----	-----	-----
HL-2	11/29/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	3.2	-----	-----	-----	-----
HL-2	05/08/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	7.3	-----	-----	-----	-----
HL-2	11/06/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.80	-----	-----	-----	-----
HL-2	04/09/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
HL-2	04/08/03	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.85	-----	-----	-----	-----
HL-2	07/08/03	Geomatrix	-----	-----	<0.50	<1	<1	<1	<0.50	<1	-----	-----	-----	-----
HL-2	10/07/03	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.96	-----	-----	-----	-----
HL-2	04/21/04	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	7.9	-----	-----	-----	-----
HL-2	07/08/04	Geomatrix	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.67	-----	-----	-----	-----
HL-2	05/06/05	Secor	280	-----	78	<0.50	<0.50	1.2	15	130	-----	-----	-----	-----
HL-2	11/03/05	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<1	1.8	-----	-----	-----	-----
HL-2	05/09/06	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	1.7	-----	-----	-----	-----
HL-2	12/06/06	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
HL-2	05/02/07	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
HL-2	11/13/07	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
HL-2	04/17/08	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.56	-----	-----	-----	-----
HL-2	10/17/08	Stantec	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
HL-2	04/20/09	Blaine Tech for AMEC	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
HL-2	10/21/09	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
HL-2	05/26/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
HL-2	10/06/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
HL-2	04/12/11	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.57	<10	<1	<1	<1
HL-2	10/11/11	CH2M Hill	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
HL-2	04/17/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
HL-2	10/16/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
HL-2	04/10/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
HL-2	10/09/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
HL-2	04/15/14	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
HL-2	10/29/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.58	<10	<1.0	<1.0	<1.0
HL-2	04/22/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	0.61	<0.50	0.88	<10	<1.0	<1.0	<1.0
HL-2	10/21/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
HL 2	04/13/16	BT for CH2MHill	<50	63	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
HL-2	10/05/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
DUP-2 (HL-2)	10/05/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
HL-2	04/18/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
HL-2	10/05/17	BT for CH2MHill	<50	270	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
HL-3	05/10/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	1.4	110	----	----	----	----
HL-3	11/06/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	1.6	93	----	----	----	----
HL-3	04/10/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	1.1	77	----	----	----	----
HL-3	10/23/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	85	----	----	----	----
HL-3	10/07/03	Secor	80	----	<0.50	<0.50	<0.50	<0.50	<0.50	67	----	----	----	----
HL-3	05/06/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
HL-3	05/03/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
HL-3	05/02/07	Secor	81	----	<0.50	<0.50	<0.50	<0.50	<0.50	38	----	----	----	----
HL-3	04/17/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	4.7	----	----	----	----
HL-3	04/20/09	Blaine Tech for AMEC	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	<10	<1	<1	<1
HL-3	05/27/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
HL-3	04/12/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
HL-3	04/18/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
HL-3	04/10/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
HL-3	10/10/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
HL-3	04/16/14	CHHL	<50	130	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
HL-3	10/30/14	BT for CH2MHill	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
HL-3	04/22/15	BT for CH2MHill	<50	70	<0.50	<0.50	<0.50	<0.50	<0.50	1.4	<10	<1.0	<1.0	<1.0
HL-3	10/23/15	BT for CH2MHill	60 HD	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
HL 3	04/13/16	BT for CH2MHill	<50	100	<0.50	<0.50	0.80	3.0	<0.50	<0.50	<10	<1.0	<1.0	<1.0
HL-3	10/06/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
HL-3	04/18/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
HL-3	10/05/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
HL-4	11/25/96	Terra Services	----	----	<10	3.2	350	8.5	<3	1,200	----	----	----	----
HL-4	07/16/97	Terra Services	270	<500	76	<1	<1	17	33	1,500	----	----	----	----
HL-4	01/08/98	Terra Services	590	660	170	13	7.1	5.0	90	2,300	----	----	----	----
HL-4	05/27/98	Terra Services	1,100	----	156	26	15	120	28	440	----	----	----	----
HL-4	11/17/98	Alton Geoscience	2,030	----	700	76	20	108	<0.50	904	----	----	----	----
HL-4	05/07/99	Alton Geoscience	2,800	<500	1,100	31	130	84	<6	1,500	----	----	----	----
HL-4	11/18/99	Secor	2,500	----	720	<10	<10	118	<10	520	----	----	----	----
HL-4	05/16/00	Secor	1,200	----	300	<10	<10	29	51	740	----	----	----	----
HL-4	11/29/00	Secor	1,900	----	26	<10	<10	<10	89	2,800	----	----	----	----
HL-4	05/08/01	Secor	1,700	----	39	<0.50	0.50	1.7	27	3,300	----	----	----	----
HL-4	11/06/01	Secor	950	----	97	<0.50	<0.50	0.90	<0.50	930	----	----	----	----
HL-4	04/09/02	Secor	1,600	----	940	<5	<5	35	<5	200	----	----	----	----
HL-4	10/23/02	Secor	<300	----	8.5	<5	<5	<5	<5	1,100	----	----	----	----
HL-4	04/08/03	Secor	1,500	----	2.8	<2.5	<2.5	<2.5	36	2,200	----	----	----	----
HL-4	10/07/03	Secor	690	----	140	<1	<1	<1	<2	480	----	----	----	----
HL-4	04/21/04	Secor	340	----	39	<0.50	<0.50	<0.50	<1	370	----	----	----	----
HL-4	11/03/04	Secor	200	----	54	<0.50	<0.50	<0.50	<0.50	13	----	----	----	----
HL-5	07/14/97	Terra Services	950	3,200	----	----	----	----	----	----	----	----	----	----
HP-1	08/07/97	GTI	----	----	<5	<5	<5	<10	<5	<5	----	----	----	----
HP-2	08/07/97	GTI	----	----	<5	<5	<5	<10	<5	<5	----	----	----	----
HP-3	08/07/97	GTI	----	----	<5	<5	<5	<10	<5	<5	----	----	----	----
HP-6	08/08/97	GTI	----	----	<5	<5	<5	<10	<5	<5	----	----	----	----
HP-8	08/08/97	GTI	----	----	11,000	12,000	1,200	7,300	<500	<500	----	----	----	----
MW-6	11/22/96	Terra Services	----	----	<0.50	<0.50	<0.50	<1.5	130	70	----	----	----	----

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-6	07/16/97	Terra Services	<100	<500	<0.50	<0.50	<0.50	<1	32	62	-----	-----	-----	-----
MW-6	01/05/98	Terra Services	<100	<500	<0.50	<0.50	<0.50	<1.5	11	39	-----	-----	-----	-----
MW-6	05/26/98	Terra Services	<300	-----	<2.5	<2.5	<2.5	<5	118	107	-----	-----	-----	-----
MW-6	11/17/98	Alton Geoscience	<300	-----	4.8	12	1.5	9.9	9.2	13	-----	-----	-----	-----
MW-6	05/07/99	Alton Geoscience	<500	<500	<0.50	1.5	<0.50	<0.50	83	120	-----	-----	-----	-----
MW-6	11/16/99	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	20	18	-----	-----	-----	-----
MW-6	05/19/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	14	12	-----	-----	-----	-----
MW-6	11/28/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	12	3.0	-----	-----	-----	-----
MW-6	05/09/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	9.8	11	-----	-----	-----	-----
MW-6	11/07/01	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	11	6.2	-----	-----	-----	-----
MW-6	04/11/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	7.6	6.0	-----	-----	-----	-----
MW-6	10/24/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	9.4	4.6	-----	-----	-----	-----
MW-6	04/10/03	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	7.4	3.2	-----	-----	-----	-----
MW-6	10/08/03	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	9.1	2.5	-----	-----	-----	-----
MW-6	04/21/04	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	4.9	2.8	-----	-----	-----	-----
MW-6	11/05/04	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	4.0	4.0	-----	-----	-----	-----
MW-6	05/05/05	Secor	89	-----	<0.50	<0.50	<0.50	<0.50	16	61	-----	-----	-----	-----
MW-6	11/03/05	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	9.9	30	-----	-----	-----	-----
MW-6	05/03/06	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	6.8	2.5	-----	-----	-----	-----
MW-6	12/07/06	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	7.1	2.7	-----	-----	-----	-----
MW-6	05/05/07	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	4.0	2.5	-----	-----	-----	-----
MW-6	11/14/07	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	3.4	2.3	-----	-----	-----	-----
MW-6	04/17/08	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	2.2	2.7	-----	-----	-----	-----
MW-6	10/17/08	Stantec	<50	-----	<0.50	<0.50	<0.50	<0.50	2.5	4.0	-----	-----	-----	-----
MW-6	04/22/09	Blaine Tech for AMEC	<50	-----	<0.50	<0.50	<0.50	<0.50	1.6	0.69	<10	<1	<1	<1
MW-6	10/21/09	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	1.5	1.0	<10	<1	<1	<1
MW-6	05/27/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	1.5	1.9	<10	<1	<1	<1
MW-6	10/06/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	2.7	2.0	<10	<1	<1	<1
MW-6	04/12/11	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	1.7	2.3	<10	<1	<1	<1
MW-6	10/11/11	CH2M Hill	<50	-----	<0.50	<0.50	<0.50	<0.50	1.2	1.0	<10	<1	<1	<1
MW-6	04/19/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	0.86	<0.50	<10	<1	<1	<1
MW-6	10/17/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
MW-6	04/10/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	0.70	<0.50	<10	<1	<1	<1
MW-6	10/10/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	0.82	0.51	<10	<1	<1	<1
MW-6	04/16/14	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	0.58	0.55	<10	<1	<1	<1
MW-6	10/29/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	0.51	0.67	<10	<1.0	<1.0	<1.0
MW-6	04/22/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.0	<10	<1.0	<1.0	<1.0
MW-6	10/23/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	0.99	1.9	5.7	<10	1.1	<1.0	<1.0
MW-6	04/14/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	0.72	1.2	<10	<1.0	<1.0	<1.0
MW-6	10/05/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	0.96	1.2	<10	<1.0	<1.0	<1.0
MW-6	04/19/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	0.99	2.2	<10	<1.0	<1.0	<1.0
MW-6	10/03/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	14	2.0	<10	1.3	<1.0	<1.0
MW-7	11/25/96	Terra Services	-----	-----	3.5	<1	16	<3	6.8	1,000	-----	-----	-----	-----
MW-7	07/14/97	Terra Services	540	<500	88	<3	<3	<3	<3	790	-----	-----	-----	-----
MW-7	01/08/98	Terra Services	150	<500	9.0	<0.50	<0.50	<1.5	4.1	400	-----	-----	-----	-----
MW-7	05/26/98	Terra Services	400	-----	<5	<5	<5	7.0	10	380	-----	-----	-----	-----
MW-7	11/17/98	Alton Geoscience	<300	-----	5.4	7.0	<5	<5	<5	351	-----	-----	-----	-----
MW-7	05/07/99	Alton Geoscience	<500	<500	0.79	2.2	<0.50	0.71	6.8	540	-----	-----	-----	-----
MW-7	11/16/99	Secor	540	-----	8.5	<0.50	<0.50	<0.50	4.7	670	-----	-----	-----	-----
MW-7	05/17/00	Secor	590	-----	<5	<5	<5	<5	14	900	-----	-----	-----	-----
MW-7	11/30/00	Secor	590	-----	4.1	<0.50	<0.50	<0.50	5.4	640	-----	-----	-----	-----
MW-7	05/09/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	3.1	36	-----	-----	-----	-----

APPENDIX E
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 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-7	11/06/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	2.4	8.2	----	----	----	----
MW-7	04/10/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	1.6	71	----	----	----	----
MW-7	10/23/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	2.0	5.0	----	----	----	----
MW-7	04/10/03	Secor	57	----	<0.50	<0.50	<0.50	<0.50	1.6	1.3	----	----	----	----
MW-7	10/07/03	Secor	67	----	<0.50	<0.50	<0.50	<0.50	1.5	1.2	----	----	----	----
MW-7	04/21/04	Secor	62	----	<0.50	<0.50	<0.50	<0.50	0.68	1.4	----	----	----	----
MW-7	11/03/04	Secor	58	----	<0.50	<0.50	<0.50	<0.50	<0.50	0.85	----	----	----	----
MW-7	05/06/05	Secor	58	----	<0.50	<0.50	<0.50	<0.50	<0.50	0.82	----	----	----	----
MW-7	11/03/05	Secor	<100	----	<0.50	<0.50	<0.50	<0.50	<1	<0.50	----	----	----	----
MW-7	05/03/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-7	12/06/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	0.65	1.5	----	----	----	----
MW-7	05/02/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	0.64	0.83	----	----	----	----
MW-7	11/13/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	0.57	0.83	----	----	----	----
MW-7	04/17/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	0.80	----	----	----	----
MW-7	10/17/08	Stantec	<50	----	<0.50	<0.50	<0.50	<0.50	1.8	0.94	----	----	----	----
MW-7	04/20/09	Blaine Tech for AMEC	<50	----	<0.50	<0.50	<0.50	<0.50	2.1	0.60	<10	2.9	<1	<1
MW-7	10/21/09	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	2.8	0.56	<10	2.0	<1	<1
MW-7	05/26/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	0.87	<0.50	<10	5.5	<1	<1
MW-7	10/07/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	1.0	0.64	260	9.3	<1	<1
MW-7	04/12/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	1.4	<0.50	98	6.0	<1	<1
MW-7	10/11/11	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	0.99	<0.50	25	1.5	<1	<1
MW-7	04/18/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	1.4	<0.50	<10	<1	<1	<1
MW-7	10/17/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	1.0	<0.50	<10	<1	<1	<1
MW-7	04/10/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	1.3	<0.50	<10	<1	<1	<1
MW-7	10/10/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	1.1	<0.50	<10	<1	<1	<1
MW-7	04/16/14	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	1.2	<0.50	<10	<1	<1	<1
MW-7	10/29/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	0.82	<0.50	<10	<1.0	<1.0	<1.0
MW-7	04/22/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
MW-7	10/23/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	1.0	<0.50	<10	<1.0	<1.0	<1.0
MW-7	04/14/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	0.78	<0.50	<10	<1.0	<1.0	<1.0
MW-7	10/05/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	1.1	<0.50	<10	<1.0	<1.0	<1.0
MW-7	04/19/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	0.77	<0.50	<10	<1.0	<1.0	<1.0
MW-7	10/03/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
MW-8	11/26/96	Terra Services	----	----	4,400	<30	<30	<80	<30	26,000	----	----	----	----
MW-8	07/17/97	Terra Services	<100	520	<10	<10	<10	<20	<10	11,000	----	----	----	----
MW-8	01/02/98	Terra Services	<100	<500	<0.50	<0.50	<0.50	<1.5	<0.50	14	----	----	----	----
MW-8	05/20/98	Terra Services	400	----	<2.5	<2.5	<2.5	<5	<2.5	554	----	----	----	----
MW-8	11/17/98	Alton Geoscience	<300	----	2.4	6.0	0.80	4.6	<0.50	56	----	----	----	----
MW-8	05/07/99	Alton Geoscience	<500	<500	<0.50	<0.50	<0.50	<0.50	<1	52	----	----	----	----
MW-8	11/18/99	Secor	<416	----	<0.50	<0.50	<0.50	<0.50	<0.50	7.2	----	----	----	----
MW-8	05/17/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	3.0	----	----	----	----
MW-8	11/29/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	15	----	----	----	----
MW-8	02/06/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	380	----	----	----	----
MW-8	05/08/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	430	----	----	----	----
MW-8	09/19/01	Secor	790	----	<0.50	<0.50	<0.50	<0.50	<0.50	1,000	----	----	----	----
MW-8	01/30/02	Secor	1,700	----	<10	<10	<10	<10	<10	1,900	----	----	----	----
MW-8	04/10/02	Secor	1,500	----	11	<10	<10	<10	<10	2,200	----	----	----	----
MW-8	10/22/02	Secor	<300	----	150	<10	12	<10	<10	750	----	----	----	----
MW-8	01/29/03	Secor	<300	----	<1	<1	<1	<1	<1	190	----	----	----	----
MW-8	04/09/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	28	----	----	----	----
MW-8	07/30/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	13	----	----	----	----
MW-8	10/06/03	Secor	79	----	<0.50	<0.50	<0.50	<0.50	<0.50	4.7	----	----	----	----

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-8	01/28/04	Secor	100	----	<0.50	<0.50	<0.50	<0.50	<0.50	4.0	----	----	----	----
MW-8	04/20/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	0.61	----	----	----	----
MW-8	07/19/04	Secor	80	----	<0.50	<0.50	<0.50	<0.50	<0.50	0.95	----	----	----	----
MW-8	11/02/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-8	02/02/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	1.8	----	----	----	----
MW-8	05/04/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	----	----	----	----
MW-8	08/02/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	2.4	----	----	----	----
MW-8	11/01/05	Secor	110	----	<0.50	<0.50	<0.50	4.2	<0.50	0.60	----	----	----	----
MW-8	02/27/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	0.65	----	----	----	----
MW-8	05/02/06	Secor	<100	----	<0.50	<0.50	<0.50	<0.50	<1	1.1	----	----	----	----
MW-8	09/19/06	Secor	<100	----	<0.50	<0.50	<0.50	<0.50	<1	1.6	----	----	----	----
MW-8	12/06/06	Secor	<100	----	<0.50	<0.50	<0.50	<0.50	<1	0.61	----	----	----	----
MW-8	03/13/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-8	05/04/07	Secor	<200	----	<1	<1	<1	<1	<2	<1	----	----	----	----
MW-8	08/29/07	Secor	<200	----	<1	<1	<1	<1	<2	<1	----	----	----	----
MW-8	11/13/07	Secor	<100	----	<0.50	<0.50	<0.50	<0.50	<1	1.9	----	----	----	----
MW-8	02/07/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	1.7	----	----	----	----
MW-8	04/18/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	3.3	----	----	----	----
MW-8	10/14/08	Stantec	<100	----	<0.50	<0.50	<0.50	<0.50	<1	0.59	----	----	----	----
MW-8	04/23/09	Blaine Tech for AMEC	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	1.0	2,000	<1	<1	<1
MW-8	10/21/09	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	0.69	570	<1	<1	<1
MW-8	05/27/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	0.62	<10	<1	<1	<1
MW-8	10/07/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	0.53	<1,600	<1	<1	<1
MW-8	04/13/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1,100	<1	<1	<1
MW-8	10/11/11	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	970	<1	<1	<1
MW-8	04/19/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	71	<1	<1	<1
MW-8	10/17/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	220	<1	<1	<1
MW-8	04/10/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
MW-8	10/10/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
MW-8	04/16/14	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
MW-8	10/30/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.9	<10	<1.0	<1.0	<1.0
MW-8	04/23/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.3	<10	<1.0	<1.0	<1.0
MW-8	10/23/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.51	<10	<1.0	<1.0	<1.0
MW-8	04/14/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
MW-8	10/05/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.85	<10	<1.0	<1.0	<1.0
MW-8	04/18/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
MW-8	10/04/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
MW-9	11/26/96	Terra Services	----	----	18	<0.50	69	1.6	<0.50	<5	----	----	----	----
MW-9	07/17/97	Terra Services	1,400	2,900	40	<1	140	22	<1	<10	----	----	----	----
MW-9	01/08/98	Terra Services	1,100	570	19	0.74	55	2.4	<0.50	<5	----	----	----	----
MW-9	05/26/98	Terra Services	4,700	----	69	<0.30	51	97	<2.5	10	----	----	----	----
MW-9	11/18/99	Secor	1,800	----	24	<0.50	2.7	2.0	<0.50	<0.50	----	----	----	----
MW-9	05/19/00	Secor	1,300	----	12	<0.50	0.80	0.50	<0.50	1.8	----	----	----	----
MW-9	11/05/04	Secor	2,500	----	27	<0.50	0.84	0.52	<1	52	----	----	----	----
MW-9	05/06/05	Secor	780	----	2.3	<1	25	<1	<2	110	----	----	----	----
MW-9	11/01/05	Secor	1,700	----	9.3	<1	4.7	5.3	<2	120	----	----	----	----
MW-9	05/04/06	Secor	1,000	----	13	<0.50	2.2	1.4	<1	140	----	----	----	----
MW-9	12/08/06	Secor	1,400	----	16	<0.50	<0.50	<0.50	<0.50	160	----	----	----	----
MW-9	05/04/07	Secor	1,700	----	9.2	<0.50	0.50	<0.50	<1	130	----	----	----	----
MW-9	04/18/08	Secor	2,500	----	51	<1	1.7	1.9	<2	16	----	----	----	----
MW-9	10/14/08	Stantec	1,600	----	27	<1	<1	<1	<2	26	----	----	----	----
MW-9	04/23/09	Blaine Tech for AMEC	1,600	----	33	<2.5	<2.5	<2.5	<5	6.2	130	<5	<5	<5

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-9	05/27/10	Blaine Tech	1,600	----	24	<5	<5	<5	<10	<5	<100	<10	<10	<10
MW-9	10/07/10	Blaine Tech	2,400	----	23	<2	<2	<2	<4	3.3	50	<4	<4	<4
MW-9	04/14/11	Blaine Tech	1,400	----	18	<5	<5	<5	<10	<5	<100	<10	<10	<10
MW-9	10/12/11	CH2M Hill	1,200	----	17	<2.5	<2.5	<2.5	<5	<2.5	<50	<5	<5	<5
MW-9	04/20/12	CH2M Hill	2,200	4,500	20	<5	<5	<5	<10	<5	<100	<10	<10	<10
MW-9	10/17/12	CHHL	1,200	2,500	9.1	<2.5	<2.5	<2.5	<5	3.7	<50	<5	<5	<5
MW-9	04/11/13	CHHL	870	4,400	4.8	<2.5	<2.5	<2.5	<5	4.5	<50	<5	<5	<5
MW-9	10/10/13	CHHL	1,200	2,100	4.2	<1	<1	<1	<2	11	45	<2	<2	<2
MW-9	04/17/14	CHHL	1,100	2,500	<2.5	<2.5	<2.5	<2.5	<5	13	150	<5	<5	<5
MW-9	10/30/14	BT for CH2MHill	<500	2,600	<2.5	<2.5	<2.5	<2.5	<5.0	6.7	51	<5.0	<5.0	<5.0
MW-9	04/23/15	BT for CH2MHill	660	2,900	5.0	3.6	2.6	24	<5.0	6.4	83	<5.0	<5.0	<5.0
MW-9	10/26/15	BT for CH2MHill	420	1,600	<0.50	<0.50	<0.50	<0.50	<1.0	5.8	40	<1.0	<1.0	<1.0
MW-9	04/14/16	BT for CH2MHill	260	1,100	1.7	<0.50	<0.50	<0.50	<0.50	1.8	30	<1.0	<1.0	<1.0
MW-9	10/05/16	BT for CH2MHill	85	280	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	22	<1.0	<1.0	<1.0
MW-9	04/19/17	BT for CH2MHill	99	600 J	<0.50	<0.50	<0.50	<0.50	<0.50	1.4	20	<1.0	<1.0	<1.0
DUP-4 (MW-9)	04/19/17	BT for CH2MHill	96	590	<0.50	<0.50	<0.50	<0.50	<0.50	1.4	19	<1.0	<1.0	<1.0
MW-9	10/05/17	BT for CH2MHill	<100	340	<0.50	<0.50	<0.50	<0.50	<1.0	2.6	22	<1.0	<1.0	<1.0
DUP-4 (MW-9)	10/05/17	BT for CH2MHill	<100	360	<0.50	<0.50	<0.50	<0.50	<1.0	2.6	18	<1.0	<1.0	<1.0
MW-10	11/21/96	GSI	<38	<500	<0.50	<0.50	5.1	2.3	<0.50	-----	-----	-----	-----	-----
MW-10	07/09/97	GTI	<50	170	<0.50	<1	2.0	<2	-----	-----	-----	-----	-----	-----
MW-10	01/06/98	GTI	<500	<100	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
MW-10	05/20/98	BBC	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
MW-10	11/04/98	GTI	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
MW-10	05/27/99	GTI	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
MW-10	11/18/99	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
MW-10	05/16/00	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
MW-10	11/29/00	IT Corporation	<300	-----	<0.30	<0.30	<0.30	2.4	-----	<5	-----	-----	-----	-----
MW-10	05/09/01	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	<5	-----	-----	-----	-----
MW-10	11/07/01	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	<5	-----	-----	-----	-----
MW-10	04/10/02	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	<5	-----	-----	-----	-----
MW-10	04/14/16	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
MW-11	12/01/00	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	<5	-----	-----	-----	-----
MW-11	05/10/01	IT Corporation	<300	-----	1.0	<0.30	0.61	<0.60	-----	13	-----	-----	-----	-----
MW-11	11/07/01	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	<5	-----	-----	-----	-----
MW-11	04/10/02	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	19	-----	-----	-----	-----
MW-11	04/14/03	GTI	-----	-----	84	1.5	59	51	-----	<3	-----	-----	-----	-----
MW-11	10/10/03	BT for Parsons	-----	-----	<0.30	<0.30	0.42	0.95	-----	12	-----	-----	-----	-----
MW-11	04/22/04	BT for Parsons	-----	-----	<0.30	<0.30	<0.30	<0.30	-----	6.4	-----	-----	-----	-----
MW-11	11/06/04	BT for Parsons	-----	-----	2.3	<0.30	0.64	5.9	-----	8.1	-----	-----	-----	-----
MW-11	05/07/05	BT for Parsons	-----	-----	0.34	0.61	<0.30	0.60	-----	13	-----	-----	-----	-----
MW-11	11/08/05	BT for Parsons	-----	-----	0.33	<0.30	<0.30	0.69	-----	37	-----	-----	-----	-----
MW-11	05/05/06	BT for Parsons	-----	-----	1.6	3.4	3.4	6.9	-----	11	-----	-----	-----	-----
MW-11	12/08/06	BT for Parsons	-----	-----	3.1	<0.50	<0.50	<1	-----	20	-----	-----	-----	-----
MW-11	05/03/07	BT for Parsons	-----	-----	4.3	<0.50	0.86	1.1	-----	43	-----	-----	-----	-----
MW-11	11/14/07	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<1	-----	18	-----	-----	-----	-----
MW-11	04/18/08	BT for Parsons	-----	-----	<0.50	<0.50	1.0	1.5	-----	<5	-----	-----	-----	-----
MW-11	10/17/08	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	12	<10	<2	<2	<2
MW-11	04/24/09	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	8.7	<10	<2	<2	<2
MW-11	10/22/09	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	3.9	<10	<2	<2	<2
MW-11	04/14/10	BT for Parsons	-----	-----	<0.50	<0.50	0.58	<0.50	-----	3.8	<10	<2	<2	<2
MW-11	04/19/12	Parsons	220	-----	<0.50	<0.50	<0.50	0.31 J	<0.50	<0.50	<10	<2	<2	<2
MW-11	07/10/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-12	05/22/98	Terra Services	<300	----	<0.50	<0.50	<0.50	<1	<0.10	<0.50	----	----	----	----
MW-12	11/11/98	Alton Geoscience	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-12	05/07/99	Alton Geoscience	<500	<500	1.2	4.8	<0.50	2.1	<1	<0.50	----	----	----	----
MW-12	11/16/99	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-12	05/19/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-12	11/30/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-12	05/09/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-12	11/07/01	IT Corporation	<300	----	1.3	1.1	<0.50	0.70	<0.50	<0.50	----	----	----	----
MW-12	04/11/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-12	10/24/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-12	04/10/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-12	10/08/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-12	04/22/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-12	11/05/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-12	05/05/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-12	11/03/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-12	05/03/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-12	12/07/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-12	05/05/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-12	11/14/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-12	04/17/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-12	10/21/08	Stantec	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-12	04/22/09	Blaine Tech for AMEC	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
MW-12	10/21/09	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
MW-12	05/26/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
MW-12	10/06/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
MW-12	04/12/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
MW-12	10/11/11	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
MW-12	04/18/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
MW-12	10/18/12	CHHL	<50	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
MW-12	04/10/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
MW-12	10/09/13	CHHL	<50	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
MW-12	04/16/14	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
MW-12	10/29/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
MW-12	04/22/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
MW-12	11/06/15	BT for CH2MHill	<50	61	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
MW 12	04/13/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
MW-12	10/05/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
MW-12	04/18/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
MW-12	10/04/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
MW-13	11/22/96	GSI	1,100	<500	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<10	<1.0	<1.0	<1.0
MW-13	07/09/97	GTI	<50	<50	<0.50	<1	<1	<2	----	----	----	----	----	----
MW-13	01/06/98	GTI	<500	<100	<0.30	<0.30	<0.30	<0.60	----	----	----	----	----	----
MW-13	05/20/98	BBC	<300	----	<0.30	<0.30	<0.30	<0.60	----	----	----	----	----	----
MW-13	11/05/98	GTI	<300	----	<0.30	<0.30	<0.30	<0.60	----	----	----	----	----	----
MW-13	05/26/99	GTI	<300	----	<0.30	<0.30	<0.30	<0.60	----	----	----	----	----	----
MW-13	11/18/99	IT Corporation	<300	----	<0.30	<0.30	<0.30	<0.60	----	----	----	----	----	----
MW-13	05/17/00	IT Corporation	<300	----	<0.30	1.2	<0.30	0.91	----	----	----	----	----	----
MW-13	11/29/00	IT Corporation	<300	----	<0.30	<0.30	<0.30	0.89	----	<5	----	----	----	----
MW-13	03/30/01	IT Corporation	----	----	----	----	----	----	----	----	----	----	----	----
MW-13	05/09/01	IT Corporation	<300	----	<0.30	<0.30	<0.30	<0.60	----	<5	----	----	----	----
MW-13	11/07/01	IT Corporation	<300	----	<0.30	<0.30	<0.30	<0.60	----	14	----	----	----	----

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g	TPH-d	Benzene	Toluene	Ethyl- benzene	Xylenes	1,2-DCA	MTBE	TBA	DIPE	ETBE	TAME
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-13	04/10/02	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-13	10/23/02	GTI	<300	----	<0.50	<1	<1	<1	<0.50	<1	----	----	----	----
MW-13	04/09/03	GTI	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-13	10/08/03	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-13	04/21/04	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-13	11/03/04	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-13	05/05/05	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-13	11/05/05	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-13	05/03/06	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-13	12/05/06	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-13	05/02/07	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-13	11/13/07	BT for Parsons	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-13	04/16/08	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-13	10/15/08	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-13	04/20/09	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-13	10/22/09	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-13	04/19/10	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-13	10/06/10	BT for Parsons	----	----	<0.50	----	----	----	<0.50	<0.50	<10	----	----	----
MW-13	04/12/11	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-13	10/12/11	Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-13	04/17/12	Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-13	10/16/12	Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-13	04/09/13	Parsons	----	140 b	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-13	10/08/13	Parsons	<100	330 HD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-13	04/15/14	Parsons	<100	97 HD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	12	<2	<2	<2
MW-13	10/28/14	SGI	<100	100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
MW-13	04/28/15	SGI	<100	<100	0.63	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
MW-13	10/22/15	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
MW 13	04/12/16	SGI	<100	<100	0.95	<0.50	2.0	6.2	<0.50	<1.0	<10	<2.0	<2.0	<2.0
MW-13	10/04/16	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
MW-13	04/18/17	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
MW-13	10/03/17	SGI	<100	270	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
MW-14	11/21/96	GSI	<500	<500	<0.50	<0.50	<0.50	<1.5	<0.50	99	----	----	----	----
MW-14	07/09/97	GTI	<50	200	<5	<5	<5	<5	<5	<5	----	----	----	----
MW-14	01/06/98	GTI	<500	<100	107	<0.50	4.0	10	2.0	15	----	----	----	----
MW-14	05/20/98	BBC	400	----	24	<0.50	7.0	14	<0.50	12	----	----	----	----
MW-14	08/26/98	Geomatrix	<300	----	<0.50	<0.50	0.70	2.1	<0.50	109	----	----	----	----
MW-14	11/04/98	GTI	<300	----	<0.50	2.8	4.8	25	<0.50	49	----	----	----	----
MW-14	02/03/99	Alton Geoscience	<500	<500	<0.50	<0.50	<0.50	<1	<1	86	----	----	----	----
MW-14	05/07/99	Alton Geoscience	<500	<500	<0.50	<0.50	<0.50	0.53	<1	450	----	----	----	----
MW-14	05/26/99	GTI	<300	----	<0.50	<0.50	0.70	1.1	<0.50	230	----	----	----	----
MW-14	08/10/99	Alton Geoscience	<500	<1,000	<0.50	<1	<1	<1	2.9	110	----	----	----	----
MW-14	11/18/99	IT Corporation	<300	----	<2.5	<5	<5	<5	12	26	----	----	----	----
MW-14	02/29/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	36	15	----	----	----	----
MW-14	05/16/00	IT Corporation	<300	----	<0.50	<0.50	<0.50	1.4	42	7.7	----	----	----	----
MW-14	08/29/00	Secor	<300	----	<0.50	<0.50	<0.50	0.60	38	9.6	----	----	----	----
MW-14	11/29/00	IT Corporation	<300	----	<0.50	<0.50	0.50	0.90	15	18	----	----	----	----
MW-14	02/06/01	Secor	<300	----	<0.50	<0.50	<0.50	0.50	11	13	----	----	----	----
MW-14	05/09/01	IT Corporation	<300	----	<0.50	<0.50	1.8	7.4	32	8.2	----	----	----	----
MW-14	09/19/01	Secor	<300	----	<0.50	<0.50	<0.50	1.1	23	15	----	----	----	----
MW-14	11/07/01	IT Corporation	<300	----	<0.50	<0.50	0.80	2.3	29	10	----	----	----	----
MW-14	01/30/02	Secor	<300	----	<0.50	<0.50	<0.50	1.5	8.1	25	----	----	----	----

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Xylenes	1,2-DCA	MTBE	TBA	DIPE	ETBE	TAME
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-14	04/10/02	IT Corporation	<300	-----	<0.50	<0.50	2.7	6.4	4.1	24	-----	-----	-----	-----
MW-14	07/30/02	IT Corporation	<300	-----	<0.50	<0.50	0.98	2.4	3.9	25	-----	-----	-----	-----
MW-14	10/23/02	GTI	<300	-----	<0.50	<1	<1	<1	4.3	22	-----	-----	-----	-----
MW-14	01/28/03	Secor	<300	-----	<0.50	<0.50	<0.50	0.67	5.9	17	-----	-----	-----	-----
MW-14	04/11/03	GTI	-----	-----	<0.50	<0.50	<0.50	<0.50	1.8	17	-----	-----	-----	-----
MW-14	10/10/03	BT for Parsons	-----	-----	<0.50	<0.50	1.2	4.0	7.4	19	-----	-----	-----	-----
MW-14	04/22/04	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	0.89	4.7	19	<10	<2	<2	<2
MW-14	07/21/04	BT for Parsons	250	-----	<0.50	<0.50	0.61	1.4	-----	22	-----	-----	-----	-----
MW-14	11/04/04	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	5.6	19	<10	<2	<2	<2
MW-14	03/02/05	BT for Parsons	-----	-----	<0.50	<1	<1	<1	-----	14	-----	-----	-----	-----
MW-14	05/07/05	BT for Parsons	-----	-----	1.3	<0.50	<0.50	<0.50	<0.50	9.3	22	<2	<2	<2
MW-14	11/08/05	BT for Parsons	-----	-----	6.5	<0.50	1.3	3.6	1.0	3.6	32	<2	<2	<2
MW-14	05/03/06	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	0.78	4.2	31	<2	<2	<2
MW-14	07/28/06	BT for Parsons	290	-----	<0.50	<0.50	<0.50	<0.50	0.83	4.2	31	<2	<2	<2
MW-14	12/06/06	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	0.98	3.3	20	<2	<2	<2
MW-14	03/23/07	BT for Parsons	670	-----	<0.50	<0.50	<0.50	<0.50	0.94	3.5	29	<2	<2	<2
MW-14	05/03/07	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	0.94	3.6	<10	<2	<2	<2
MW-14	08/31/07	BT for Parsons	480	-----	<0.50	<0.50	<0.50	<0.50	<0.50	3.6	27	<2	<2	<2
MW-14	11/15/07	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	0.97	4.0	20	<2	<2	<2
MW-14	02/07/08	BT for Parsons	180	-----	<0.50	<0.50	<0.50	<0.50	0.86	5.2	28	<2	<2	<2
MW-14	04/17/08	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	1.2	4.6	32	<2	<2	<2
MW-14	10/16/08	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	2.3	10	<2	<2	<2
MW-14	02/12/09	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	1.1	1.6	<10	<2	<2	<2
MW-14	04/22/09	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	16	1.9	<10	<2	<2	<2
MW-14	07/20/09	Blaine Tech for AMEC	-----	-----	<0.50	<0.50	<0.50	<0.50	13	1.5	<10	2.4	<2	<2
MW-14	10/22/09	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	16	2.5	<10	3.0	<2	<2
MW-14	01/12/10	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	13	2.7	4.2 J	3.2	<2	<2
MW-14	04/13/10	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	0.4 J	4.3	<10	<2	<2	<2
MW-14	10/04/10	BT for Parsons	-----	-----	<0.50	-----	-----	-----	0.99	3.4	<10	-----	-----	-----
MW-14	01/10/11	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.66	<10	<2	<2	<2
MW-14	04/13/11	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	3.0	<10	<2	<2	<2
MW-14	07/11/11	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.48 J	11	<2	<2	<2
MW-14	10/12/11	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	2.1	2.7	<10	0.83 J	<2	<2
MW-14	01/09/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	3.3	3.6	<10	0.83 J	<2	<2
MW-14	04/18/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	6.6	0.78	<10	1.2 J	<2	<2
MW-14	07/09/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	4.0	0.72	<10	1.1 J	<2	<2
MW-14	10/18/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	7.0	1.9	<10	1.3 J	<2	<2
MW-14	01/14/13	Parsons	-----	<100	<0.50	<0.50	<0.50	<0.50	10	0.93	<10	1.7 J	<2	<2
MW-14	04/10/13	Parsons	-----	120 b	<0.50	<0.50	<0.50	<0.50	12	1.4	<10	2.4	<2	<2
MW-14	04/29/15	SGI	<100	120	<0.50	<0.50	<0.50	<1.5	5.4	<2.0	<10	<2.0	<2.0	<2.0
MW-14	10/23/15	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	7.5	<2.0	<10	<2.0	<2.0	<2.0
MW-14	10/04/16	SGI	<100	<100	1.3	<0.50	<0.50	<1.5	6.3	<1.0	<10	<2.0	<2.0	<2.0
MW-14	04/19/17	SGI	<100	160	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
MW-15	11/26/96	Terra Services	-----	-----	1.4	0.66	1.0	0.62	<0.50	27	-----	-----	-----	-----
MW-15	07/14/97	Terra Services	1,000	3,500	1.5	1.1	<0.50	<1	<0.50	<5	-----	-----	-----	-----
MW-15	01/07/98	Terra Services	<500	1,500	0.62	0.73	<0.50	<1.5	<0.50	<5	-----	-----	-----	-----
MW-15	05/22/98	Terra Services	<300	-----	<0.50	<0.50	<0.50	0.70	<1	<0.50	-----	-----	-----	-----
MW-15	11/13/98	Alton Geoscience	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
MW-15	05/07/99	Alton Geoscience	<500	<500	<0.50	<0.50	<0.50	<0.50	<1	<0.50	-----	-----	-----	-----
MW-15	11/17/99	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
MW-15	05/16/00	Secor	340	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
MW-15	11/30/00	Secor	2,100	-----	<0.50	0.80	<0.50	1.1	<0.50	<0.50	-----	-----	-----	-----

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Xylenes	1,2-DCA	MTBE	TBA	DIPE	ETBE	TAME
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-15	05/09/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-15	11/06/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	0.60	----	----	----	----
MW-15	04/10/02	Secor	59,000	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-15	07/30/02	IT Corporation	780	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-15	12/08/06	Secor	420	----	<0.50	<0.50	<0.50	1.0	<0.50	0.60	----	----	----	----
MW-15	05/04/07	Secor	<500	----	<2.5	<2.5	<2.5	<2.5	<5	<2.5	----	----	----	----
MW-15	10/05/10	Blaine Tech	1,100	----	<1	<1	<1	<1	<2	<1	<20	<2	<2	<2
MW-15	04/14/11	Blaine Tech	1,900	----	<1	<1	<1	<1	<2	<1	<20	<2	<2	<2
MW-15	10/12/11	CH2M Hill	590	----	<1	<1	<1	<1	<2	<1	<20	<2	<2	<2
MW-15	04/27/12	CH2M Hill	1,100	40,000	<1	<1	<1	<1	<2	<1	<20	<2	<2	<2
MW-15	10/19/12	CHHL	940	34,000	<1	<1	<1	<1	<2	<1	<20	<2	<2	<2
MW-15	04/12/13	CHHL	890	240,000	<1	<1	<1	<1	<2	<1	<20	<2	<2	<2
MW-15	10/11/13	CHHL	2,000	140,000	<1	<1	<1	<1	<2	<1	<20	<2	<2	<2
MW-15	10/31/14	BT for CH2MHill	590	8,300	<2.5	<2.5	<2.5	<2.5	<5.0	<2.5	<50	<5.0	<5.0	<5.0
MW-15R	04/19/17	BT for CH2MHill	<100	210	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	15	<1.0	<1.0	<1.0
MW-15R	10/05/17	BT for CH2MHill	<50	79	<0.50	<0.50	<0.50	<0.50	<0.50	0.56	<10	<1.0	<1.0	<1.0
MW-16	11/27/96	GSI	50	<500	<0.50	<0.50	<0.50	1.5	140	71	----	----	----	----
MW-16	07/10/97	GTI	<50	<50	<5	<5	<5	<5	<5	<5	----	----	----	----
MW-16	01/06/98	GTI	<500	<100	<0.50	<0.50	<0.50	<1	<0.50	<0.50	----	----	----	----
MW-16	05/21/98	BBC	<300	----	<0.50	0.70	<0.50	0.60	<0.50	<0.50	----	----	----	----
MW-16	11/05/98	GTI	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-16	05/27/99	GTI	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-16	11/18/99	IT Corporation	<300	----	<0.50	<1	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-16	05/17/00	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-16	11/30/00	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-16	05/09/01	IT Corporation	<300	----	2.6	<0.50	<0.50	0.60	<0.50	<0.50	----	----	----	----
MW-16	11/07/01	IT Corporation	<300	----	1.2	<0.50	<0.50	<0.50	<0.50	31	----	----	----	----
MW-16	02/01/02	Secor	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	220	----	----	----	----
MW-16	04/11/02	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	260	----	----	----	----
MW-16	10/23/02	GTI	<300	----	<0.50	<1	<1	<1	<0.50	14	----	----	----	----
MW-16	01/29/03	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	6.8	----	----	----	----
MW-16	04/09/03	GTI	----	----	<0.50	<0.50	<0.50	<0.50	<1	16	----	----	----	----
MW-16	08/01/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	110	----	----	----	----
MW-16	10/11/03	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	100	----	----	----	----
MW-16	01/28/04	Secor	51	----	<0.50	<0.50	<0.50	<0.50	<0.50	89	----	----	----	----
MW-16	04/21/04	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	83	110	<2	<2	<2
MW-16	07/20/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	22	----	----	----	----
MW-16	11/04/04	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	3.3	120	<2	<2	<2
MW-16	02/02/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-16	05/06/05	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-16	08/02/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-16	11/08/05	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-16	05/04/06	BT for Parsons	----	----	0.87	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-16	09/19/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-16	12/08/06	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-16	05/03/07	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-16	11/16/07	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-16	04/17/08	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-16	10/16/08	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-16	04/23/09	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-16	10/23/09	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-16	04/16/10	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2

APPENDIX E
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 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g	TPH-d	Benzene	Toluene	Ethyl- benzene	Xylenes	1,2-DCA	MTBE	TBA	DIPE	ETBE	TAME
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-16	10/07/10	BT for Parsons	-----	-----	<0.50	-----	-----	-----	<0.50	<0.50	<10	-----	-----	-----
MW-16	04/12/11	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-16	10/12/11	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-16	04/17/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-16	10/16/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-16	04/09/13	Parsons	-----	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-16	10/27/14	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
MW-16	04/24/15	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
MW-16	10/20/15	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
MW 16	04/12/16	SGI	<100	<100	1.3	<0.50	2.5	8.1	0.51	<1.0	<10	<2.0	<2.0	<2.0
MW-16	10/07/16	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
MW-16	04/18/17	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
MW-16	10/04/17	SGI	<100	100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
MW-17	11/27/96	GSI	45	<500	<0.50	<0.50	<0.50	<1	<0.50	-----	-----	-----	-----	-----
MW-17	07/09/97	GTI	<50	<50	<5	<5	<5	<5	<5	<5	-----	-----	-----	-----
MW-17	01/06/98	GTI	<500	<100	<0.50	<0.50	<0.50	<1	<0.50	<0.50	-----	-----	-----	-----
MW-17	05/20/98	BBC	<300	-----	<0.50	<0.50	<0.50	<1	<0.50	<0.50	-----	-----	-----	-----
MW-17	11/04/98	GTI	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
MW-17	05/26/99	GTI	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
MW-17	11/18/99	IT Corporation	<300	-----	<0.50	<1	<0.50	<0.50	<0.50	0.50	-----	-----	-----	-----
MW-17	05/17/00	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
MW-17	11/29/00	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
MW-17	05/09/01	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
MW-17	11/07/01	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
MW-17	04/10/02	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
MW-17	10/23/02	GTI	<300	-----	<0.50	<1	<1	<1	<0.50	<1	-----	-----	-----	-----
MW-17	04/10/03	GTI	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
MW-17	10/08/03	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
MW-17	04/21/04	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-17	11/03/04	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-17	05/05/05	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-17	11/05/05	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-17	05/03/06	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-17	12/05/06	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-17	05/02/07	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-17	11/13/07	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-17	04/16/08	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-17	10/15/08	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-17	04/20/09	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-17	10/23/09	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-17	04/16/10	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-17	10/06/10	BT for Parsons	-----	-----	<0.50	-----	-----	-----	<0.50	<0.50	<10	-----	-----	-----
MW-17	04/12/11	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-17	10/13/11	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-17	04/17/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-17	10/16/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-17	04/09/13	Parsons	-----	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-17	10/08/13	Parsons	<100	110 HD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-17	04/16/14	Parsons	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-17	10/27/14	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
MW-17	04/24/15	SGI	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
MW-17	10/20/15	SGI	130	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW 17	04/13/16	SGL	<100	<100	<0.50	<0.50	0.67	2.4	<0.50	<1.0	<10	<2.0	<2.0	<2.0
DUP-5 (MW 17)	04/13/16	SGL	<100	<100	<0.50	<0.50	0.74	2.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
MW-17	10/04/16	SGL	<100	<100	<0.50	<0.50	0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
DUP-1 (MW-17)	10/04/16	SGL	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
MW-17	04/18/17	SGL	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
MW-17	10/03/17	SGL	<100	110	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
MW-18 (MID)	07/16/97	Terra Services	<100	<500	----	----	----	----	----	----	----	----	----	----
MW-18 (MID)	01/05/98	Terra Services	420	<500	----	----	----	----	----	----	----	----	----	----
MW-18 (MID)	10/08/03	Secor	530	----	1.2	<1	<1	<1	16	640	----	----	----	----
MW-18 (MID)	10/07/10	Blaine Tech	1,100	----	290	<1.5	<1.5	<1.5	<3	12	150	11	<3	<3
MW-18 (MID)	04/13/11	Blaine Tech	4,100	----	1,900	<10	<10	11	<20	13	<200	21	<20	<20
MW-18 (MID)	10/12/11	CH2M Hill	1,200	----	460	<2.5	<2.5	3.2	<5	4.6	82	9.3	<5	<5
MW-18 (MID)	04/20/12	CH2M Hill	<200	330	<1	<1	<1	<1	<2	2.4	21	4.2	<2	<2
MW-18 (MID)	10/18/12	CHHL	96	170	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	49	3.6	<1	<1
MW-18 (MID)	10/31/14	BT for CH2MHill	<200	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	87	5.1	<2.0	<2.0
MW-18 (MID)	04/22/15	BT for CH2MHill	<50	140	<0.50	<0.50	<0.50	<0.50	1.2	<0.50	59	3.7	<1.0	<1.0
MW-18 (MID)	10/27/15	BT for CH2MHill	<50	130 HD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	3.1	<1.0	<1.0
MW 18 (MID)	04/13/16	BT for CH2MHill	390	440	65	1.4	4.0	2.0	<1	4.7	74	1.5	<1.0	<1.0
MW-18 (MID)	10/06/16	BT for CH2MHill	200	490	6.1	<0.50	<0.50	1.5	<0.50	2.7	55	1.3	<1.0	<1.0
MW-18 (MID)	04/20/17	BT for CH2MHill	<100	200	<0.50	<0.50	<0.50	<0.50	<1	1.3	32	1.6	<1.0	<1.0
MW-18 (MID)	10/05/17	BT for CH2MHill	<50	120	<0.50	<0.50	<0.50	<0.50	<0.50	0.94	13	1.7	<1.0	<1.0
MW-19 (MID)	11/26/96	Terra Services	----	----	48	<0.50	17	1.8	7.7	600	----	----	----	----
MW-19 (MID)	07/16/97	Terra Services	<100	<500	<0.50	<0.50	<0.50	<1	9.1	810	----	----	----	----
MW-19 (MID)	01/05/98	Terra Services	<100	<500	<5	<5	<5	<15	<5	1,400	----	----	----	----
MW-19 (MID)	05/27/98	Terra Services	500	----	<5	<0.50	<5	<10	14	590	----	----	----	----
MW-19 (MID)	08/26/98	Geomatrix	514	----	<2.5	<2.5	<2.5	<2.5	11	779	----	----	----	----
MW-19 (MID)	11/17/98	Alton Geoscience	491	----	<5	<5	<5	<5	11	850	----	----	----	----
MW-19 (MID)	02/03/99	Alton Geoscience	<10,000	<500	<10	<10	<10	<20	<20	1,300	----	----	----	----
MW-19 (MID)	05/06/99	Alton Geoscience	540	<500	42	<1	<1	<1	<2.5	1,500	----	----	----	----
MW-19 (MID)	08/10/99	Alton Geoscience	600	<1,000	<0.50	<1	<1	<1	6.8	980	----	----	----	----
MW-19 (MID)	11/17/99	Secor	1,100	----	26	<5	<5	<5	<5	1,100	----	----	----	----
MW-19 (MID)	02/29/00	Secor	2,000	----	530	<5	<5	<5	<5	1,100	----	----	----	----
MW-19 (MID)	05/17/00	Secor	5,200	----	1,900	<25	<25	<25	<25	2,600	----	----	----	----
MW-19 (MID)	08/29/00	Secor	2,700	----	560	<10	<10	<10	<10	3,200	----	----	----	----
MW-19 (MID)	11/30/00	Secor	2,100	----	520	3.6	0.90	6.1	<0.50	1,200	----	----	----	----
MW-19 (MID)	02/06/01	Secor	780	----	66	<10	<10	<10	<10	720	----	----	----	----
MW-19 (MID)	05/09/01	Secor	360	----	4.4	<2.5	<2.5	<2.5	6.5	490	----	----	----	----
MW-19 (MID)	09/19/01	Secor	<300	----	<2.5	<2.5	<2.5	<2.5	8.2	200	----	----	----	----
MW-19 (MID)	11/06/01	Secor	<300	----	<1	<1	<1	<1	6.5	180	----	----	----	----
MW-19 (MID)	01/30/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	5.1	33	----	----	----	----
MW-19 (MID)	04/10/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	4.3	11	----	----	----	----
MW-19 (MID)	10/23/02	Secor	<300	----	1.1	<0.50	<0.50	<0.50	3.5	7.4	----	----	----	----
MW-19 (MID)	04/10/03	Secor	92	----	<0.50	<0.50	<0.50	<0.50	2.5	4.3	----	----	----	----
MW-19 (MID)	10/07/03	Secor	84	----	<0.50	<0.50	<0.50	<0.50	2.3	1.0	----	----	----	----
MW-19 (MID)	04/21/04	Secor	99	----	<0.50	<0.50	<0.50	<0.50	2.6	<0.50	----	----	----	----
MW-19 (MID)	11/03/04	Secor	<100	----	<0.50	<0.50	<0.50	<0.50	2.0	0.81	----	----	----	----
MW-19 (MID)	05/06/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-19 (MID)	11/03/05	Secor	68	----	<0.50	<0.50	<0.50	<0.50	4.2	1.2	----	----	----	----
MW-19 (MID)	05/03/06	Secor	76	----	<0.50	<0.50	<0.50	<0.50	13	2.2	----	----	----	----
MW-19 (MID)	12/06/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	1.3	<0.50	----	----	----	----
MW-19 (MID)	05/02/07	Secor	61	----	<0.50	<0.50	<0.50	<0.50	2.2	1.1	----	----	----	----
MW-19 (MID)	11/13/07	Secor	57	----	<0.50	<0.50	<0.50	<0.50	2.9	0.86	----	----	----	----

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-19 (MID)	04/17/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	3.0	1.2	-----	-----	-----	-----
MW-19 (MID)	10/17/08	Stantec	<50	----	<0.50	<0.50	<0.50	<0.50	3.2	1.3	-----	-----	-----	-----
MW-19 (MID)	04/20/09	Blaine Tech for AMEC	<50	----	<0.50	<0.50	<0.50	<0.50	3.8	0.81	66	9.8	<1	<1
MW-19 (MID)	10/21/09	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	5.0	0.79	130	16	<1	<1
MW-19 (MID)	05/26/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	3.1	<0.50	<10	12	<1	<1
MW-19 (MID)	10/06/10	Blaine Tech	62	----	<0.50	<0.50	<0.50	<0.50	3.5	0.91	130	19	<1	<1
MW-19 (MID)	04/12/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	3.2	0.81	67	14	<1	<1
MW-19 (MID)	10/11/11	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	3.2	0.67	110	11	<1	<1
MW-19 (MID)	04/18/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	4.7	1.0	290	22	<1	<1
MW-19 (MID)	10/17/12	CHHL	<50	77	<0.50	<0.50	<0.50	<0.50	5.3	1.1	360	28	<1	<1
MW-19 (MID)	04/11/13	CHHL	55	<50	<0.50	<0.50	<0.50	<0.50	9.2	2.0	330	31	<1	<1
MW-19 (MID)	10/10/13	CHHL	54	<50	<0.50	<0.50	<0.50	<0.50	7.4	2.0	350	25	<1	<1
MW-19 (MID)	04/17/14	CHHL	74	<50	<0.50	<0.50	<0.50	<0.50	9.1	2.0	440	25	<1	<1
MW-19 (MID)	10/30/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	3.5	0.74	87	9.2	<1.0	<1.0
MW-19 (MID)	04/22/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	3.7	1.1	130	13	<1.0	<1.0
MW-19 (MID)	10/23/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	2.9	<0.50	36	6.2	<1.0	<1.0
MW-19 (MID)	04/13/16	BT for CH2MHill	<50	54	<0.50	<0.50	<0.50	<0.50	4.8	1.0	420	23	<1.0	<1.0
MW-19 (MID)	10/05/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	3.8	0.68	220	19	<1.0	<1.0
MW-19 (MID)	04/19/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	2.1	<0.50	88	11	<1.0	<1.0
MW-19 (MID)	10/03/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	2.5	<0.50	22	4.2	<1.0	<1.0
MW-20 (MID)	11/22/96	Terra Services	----	----	<0.50	<0.50	<0.50	1.5	66	36	-----	-----	-----	-----
MW-20 (MID)	07/11/97	Terra Services	<100	<500	<0.50	<0.50	<0.50	<1	33	13	-----	-----	-----	-----
MW-20 (MID)	01/05/98	Terra Services	<100	<500	<0.50	<0.50	<0.50	<1.5	17	9.2	-----	-----	-----	-----
MW-20 (MID)	05/27/98	Terra Services	<300	----	<0.50	<0.50	<0.50	<1	35	22	-----	-----	-----	-----
MW-20 (MID)	11/16/98	Alton Geoscience	<300	----	14	41	4.8	30	31	33	-----	-----	-----	-----
MW-20 (MID)	05/07/99	Alton Geoscience	<500	<500	5.6	22	1.7	9.8	22	13	-----	-----	-----	-----
MW-20 (MID)	11/16/99	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	21	19	-----	-----	-----	-----
MW-20 (MID)	05/19/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	22	11	-----	-----	-----	-----
MW-20 (MID)	11/28/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	17	8.1	-----	-----	-----	-----
MW-20 (MID)	05/09/01	Secor	<300	----	<50	<50	<50	<50	2,200	1,300	-----	-----	-----	-----
MW-20 (MID)	09/19/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	23	11	-----	-----	-----	-----
MW-20 (MID)	11/07/01	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	23	14	-----	-----	-----	-----
MW-20 (MID)	04/11/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	17	12	-----	-----	-----	-----
MW-20 (MID)	10/24/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	20	20	-----	-----	-----	-----
MW-20 (MID)	04/10/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	17	11	-----	-----	-----	-----
MW-20 (MID)	10/08/03	Secor	<100	----	<0.50	<0.50	<0.50	<0.50	29	19	-----	-----	-----	-----
MW-20 (MID)	04/21/04	Secor	56	----	<0.50	<0.50	<0.50	<0.50	27	18	-----	-----	-----	-----
MW-20 (MID)	11/05/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	23	15	-----	-----	-----	-----
MW-20 (MID)	05/05/05	Secor	97	----	<0.50	<0.50	<0.50	<0.50	33	57	-----	-----	-----	-----
MW-20 (MID)	11/03/05	Secor	58	----	<0.50	<0.50	<0.50	<0.50	25	46	-----	-----	-----	-----
MW-20 (MID)	05/03/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	21	32	-----	-----	-----	-----
MW-20 (MID)	12/07/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	21	25	-----	-----	-----	-----
MW-20 (MID)	05/05/07	Secor	59	----	<0.50	<0.50	<0.50	<0.50	20	25	-----	-----	-----	-----
MW-20 (MID)	11/14/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	20	23	-----	-----	-----	-----
MW-20 (MID)	04/17/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	15	21	-----	-----	-----	-----
MW-20 (MID)	10/17/08	Stantec	<50	----	<0.50	<0.50	<0.50	<0.50	17	18	-----	-----	-----	-----
MW-20 (MID)	04/22/09	Blaine Tech for AMEC	<50	----	<0.50	<0.50	<0.50	<0.50	17	16	28	11	<1	<1
MW-20 (MID)	10/21/09	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	16	18	32	14	<1	<1
MW-20 (MID)	05/27/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	18	16	<10	12	<1	<1
MW-20 (MID)	10/06/10	Blaine Tech	51	----	<0.50	<0.50	<0.50	<0.50	15	19	40	13	<1	<1
MW-20 (MID)	04/12/11	Blaine Tech	51	----	<0.50	<0.50	<0.50	<0.50	17	18	<10	17	<1	<1
MW-20 (MID)	10/11/11	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	13	17	38	11	<1	<1

APPENDIX E
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 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-20 (MID)	04/19/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	15	12	26	9.9	<1	<1
MW-20 (MID)	10/17/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	6.8	7.6	12	6.8	<1	<1
MW-20 (MID)	04/10/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	14	9.8	<10	6.7	<1	<1
MW-20 (MID)	10/10/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	16	14	29	11	<1	<1
MW-20 (MID)	04/16/14	CHHL	55	<50	<0.50	<0.50	<0.50	<0.50	13	9.6	22	7.4	<1	<1
MW-20 (MID)	10/30/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	10	8.7	18	6.6	<1.0	<1.0
MW-20 (MID)	04/22/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	6.2	11	19	8.2	<1.0	<1.0
MW-20 (MID)	10/23/15	BT for CH2MHill	91 HD	<50	<0.50	0.50	<0.50	0.70	0.65	4.7	<10	3.2	<1.0	<1.0
MW 20 (MID)	04/13/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	10	8.9	25	6.3	<1.0	<1.0
MW-20 (MID)	10/05/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	13	7.1	22	7.2	<1.0	<1.0
MW-20 (MID)	04/19/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	9.0	8.1	21	6.0	<1.0	<1.0
MW-20 (MID)	10/03/17	BT for CH2MHill	<50	<100	<0.50	<0.50	<0.50	<0.50	8.6	6.8	16	5.1	<1.0	<1.0
MW-21 (MID)	05/07/99	Alton Geoscience	<500	590	<1	<1	<1	<1	75	39	-----	-----	-----	-----
MW-21 (MID)	11/29/00	Secor	<300	-----	3.6	<0.50	<0.50	<0.50	16	62	-----	-----	-----	-----
MW-21 (MID)	05/09/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	9.8	50	-----	-----	-----	-----
MW-21 (MID)	11/06/01	Secor	<300	-----	0.50	<0.50	<0.50	<0.50	12	69	-----	-----	-----	-----
MW-21 (MID)	04/10/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	8.6	71	-----	-----	-----	-----
MW-21 (MID)	10/23/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	7.4	61	-----	-----	-----	-----
MW-21 (MID)	10/07/03	Secor	87	-----	<0.50	<0.50	<0.50	<0.50	5.6	55	-----	-----	-----	-----
MW-21 (MID)	05/06/05	Secor	62	-----	<0.50	<0.50	<0.50	<0.50	2.8	25	-----	-----	-----	-----
MW-21 (MID)	05/03/06	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	1.5	13	-----	-----	-----	-----
MW-21 (MID)	05/02/07	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	0.73	3.3	-----	-----	-----	-----
MW-21 (MID)	04/17/08	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	0.88	6.4	-----	-----	-----	-----
MW-21 (MID)	04/20/09	Blaine Tech for AMEC	<100	-----	<0.50	<0.50	<0.50	<0.50	2.3	1.9	25	2.3	<1	<1
MW-21 (MID)	05/26/10	Blaine Tech	<100	-----	<0.50	<0.50	<0.50	<0.50	2.9	1.5	<10	3.2	<1	<1
MW-21 (MID)	04/12/11	Blaine Tech	72	-----	<0.50	<0.50	<0.50	<0.50	3.8	2.4	32	3.0	<1	<1
MW-21 (MID)	04/18/12	CH2M Hill	<100	140	<0.50	<0.50	<0.50	<0.50	2.2	<0.50	17	<1	<1	<1
MW-21 (MID)	04/10/13	CHHL	<200	61	<1	<1	<1	<1	2.4	<1	22	3.3	<2	<2
MW-21 (MID)	10/10/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	2.8	0.81	35	3.0	<1	<1
MW-21 (MID)	04/16/14	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	4.2	0.51	<10	<1	<1	<1
MW-21 (MID)	10/30/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	3.6	0.69	<10	<1.0	<1.0	<1.0
MW-21 (MID)	04/22/15	BT for CH2MHill	<50	56	<0.50	<0.50	<0.50	<0.50	3.4	0.68	<10	<1.0	<1.0	<1.0
MW-21 (MID)	10/23/15	BT for CH2MHill	120 HD	57	<0.50	<0.50	<0.50	<0.50	3.4	1.1	<10	<1.0	<1.0	<1.0
MW 21 (MID)	04/13/16	BT for CH2MHill	<50	87	<0.50	<0.50	<0.50	<0.50	3.5	0.79	<10	<1.0	<1.0	<1.0
MW-21 (MID)	10/05/16	BT for CH2MHill	57	82	<0.50	<0.50	<0.50	<0.50	3.2	1.2	<10	<1.0	<1.0	<1.0
MW-21 (MID)	04/19/17	BT for CH2MHill	<100	120	<0.50	<0.50	<0.50	<0.50	2.2	1.0	12	<1.0	<1.0	<1.0
DUP-2 [MW-21 (MID)]	04/19/17	BT for CH2MHill	<100	140	<0.50	<0.50	<0.50	<0.50	2.2	0.99	11	<1.0	<1.0	<1.0
MW-21 (MID)	10/03/17	BT for CH2MHill	<50	67	<0.50	<0.50	<0.50	<0.50	3.1	1.4	10	<1.0	<1.0	<1.0
DUP-1 [MW-21 (MID)]	10/03/17	BT for CH2MHill	<50	71	<0.50	<0.50	<0.50	<0.50	3.0	1.2	<10	<1.0	<1.0	<1.0
MW-22 (MID)	11/21/96	GSI	46	<500	<0.50	<0.50	<0.50	<1.5	4.7	<5	-----	-----	-----	-----
MW-22 (MID)	07/10/97	GTI	<50	650	<5	<5	<5	<5	15	<5	-----	-----	-----	-----
MW-22 (MID)	01/06/98	GTI	-----	400	<5	<5	<5	<1	<5	<5	-----	-----	-----	-----
MW-22 (MID)	05/21/98	BBC	<300	-----	<0.50	<0.50	<0.50	<1	0.90	<0.50	-----	-----	-----	-----
MW-22 (MID)	08/26/98	Geomatrix	<300	-----	<0.50	<0.50	<0.50	<0.50	2.1	<0.50	-----	-----	-----	-----
MW-22 (MID)	11/04/98	GTI	<300	-----	<0.50	<0.50	<0.50	<0.50	1.6	<0.50	-----	-----	-----	-----
MW-22 (MID)	02/02/99	Alton Geoscience	<500	<500	1.1	2.1	0.56	2.1	3.2	0.60	-----	-----	-----	-----
MW-22 (MID)	05/07/99	Alton Geoscience	-----	<500	8.0	3.4	1.7	7.5	<1	6.9	-----	-----	-----	-----
MW-22 (MID)	05/26/99	GTI	<300	-----	<0.50	<0.50	<0.50	<0.50	3.7	4.7	-----	-----	-----	-----
MW-22 (MID)	08/10/99	Alton Geoscience	<500	<1,000	3.1	6.2	<1	4.9	8.9	<1	-----	-----	-----	-----
MW-22 (MID)	11/18/99	IT Corporation	<300	-----	<0.50	<1	<0.50	<0.50	19	0.80	-----	-----	-----	-----
MW-22 (MID)	02/29/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	29	3.3	-----	-----	-----	-----
MW-22 (MID)	05/16/00	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	16	2.4	-----	-----	-----	-----

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-22 (MID)	08/29/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	45	14	----	----	----	----
MW-22 (MID)	11/28/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	88	13	----	----	----	----
MW-22 (MID)	11/29/00	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	88	13	----	----	----	----
MW-22 (MID)	02/06/01	Secor	<300	----	<1	<1	<1	<1	120	14	----	----	----	----
MW-22 (MID)	05/09/01	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	110	12	----	----	----	----
MW-22 (MID)	05/09/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	83	11	----	----	----	----
MW-22 (MID)	09/19/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	30	4.5	----	----	----	----
MW-22 (MID)	11/07/01	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	36	6.5	----	----	----	----
MW-22 (MID)	01/30/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	30	19	----	----	----	----
MW-22 (MID)	04/12/02	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	22	11	----	----	----	----
MW-22 (MID)	07/30/02	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	24	8.7	----	----	----	----
MW-22 (MID)	10/24/02	GTI	<300	----	<0.50	<1	<1	<1	18	5.4	----	----	----	----
MW-22 (MID)	01/28/03	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	18	4.8	----	----	----	----
MW-22 (MID)	04/11/03	GTI	----	----	<0.50	<0.50	<0.50	<0.50	9.1	2.4	----	----	----	----
MW-22 (MID)	10/11/03	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	12	2.8	----	----	----	----
MW-22 (MID)	04/22/04	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	19	4.8	21	3.2	<2	<2
MW-22 (MID)	07/21/04	BT for Parsons	180	----	<0.50	<0.50	<0.50	<0.50	----	11	----	----	----	----
MW-22 (MID)	11/04/04	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	31	11	17	2.8	<2	<2
MW-22 (MID)	03/02/05	BT for Parsons	----	----	<0.50	<1	<1	<1	----	15	----	----	----	----
MW-22 (MID)	05/07/05	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	1.8	30	<10	<2	<2	<2
MW-22 (MID)	11/08/05	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	2.1	30	13	<2	<2	<2
MW-22 (MID)	05/05/06	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	6.1	14	<10	<2	<2	<2
MW-22 (MID)	12/05/06	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	5.3	16	13	<2	<2	<2
MW-22 (MID)	05/02/07	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	4.4	14	17	<2	<2	<2
MW-22 (MID)	11/14/07	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	10	15	19	2.1	<2	<2
MW-22 (MID)	04/17/08	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	8.3	11	18	<2	<2	<2
MW-22 (MID)	10/16/08	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	9.7	16	16	2.1	<2	<2
MW-22 (MID)	02/12/09	BT for Parsons	<100	----	<0.50	<0.50	<0.50	<0.50	15	18	22	3.1	<2	<2
MW-22 (MID)	04/22/09	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	11	23	22	<2	<2	<2
MW-22 (MID)	07/20/09	Blaine Tech for AMEC	----	----	<0.50	<0.50	<0.50	<0.50	11	19	34	2.9	<2	<2
MW-22 (MID)	10/23/09	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	13	16	27	<2	<2	<2
MW-22 (MID)	01/13/10	BT for Parsons	<100	----	<0.50	<0.50	<0.50	<0.50	9.7	13	24	2.1	<2	<2
MW-22 (MID)	04/13/10	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	11	8.7	23	1.8 J	<2	<2
MW-22 (MID)	10/04/10	BT for Parsons	----	----	<0.50	----	----	----	10	13	<10	----	----	----
MW-22 (MID)	01/10/11	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	4.8	6.2	10	0.82 J	<2	<2
MW-22 (MID)	04/14/11	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	6.5	10	<10	0.76 J	<2	<2
MW-22 (MID)	07/11/11	Parsons	----	----	<0.50	<0.50	<0.50	<0.50	5.5	7.8	13	0.48 J	<2	<2
MW-22 (MID)	10/13/11	Parsons	----	----	0.39 J	0.38 J	<0.50	<0.50	4.6	6.3	7.2 J	0.37 J	<2	<2
MW-22 (MID)	01/09/12	Parsons	----	----	<0.50	<0.50	<0.50	<0.50	4.4	6.6	12	0.45 J	<2	<2
MW-22 (MID)	04/18/12	Parsons	----	----	<0.50	<0.50	<0.50	<0.50	7.1	10	21	0.69 J	<2	<2
MW-22 (MID)	07/09/12	Parsons	----	----	<0.50	<0.50	<0.50	<0.50	4.4	5.8	<10	0.43 J	<2	<2
MW-22 (MID)	10/18/12	Parsons	----	----	<0.50	<0.50	<0.50	<0.50	6.4	12	<10	0.85 J	<2	<2
MW-22 (MID)	01/14/13	Parsons	----	<100	<0.50	<0.50	<0.50	<0.50	4.4	5.3	<10	0.42 J	<2	<2
MW-22 (MID)	04/10/13	Parsons	----	250 b	<0.50	<0.50	<0.50	<0.50	7.0	11	14	1.1 J	<2	<2
MW-22 (MID)	10/07/13	Parsons	<100	240 HD	<0.50	<0.50	<0.50	<0.50	3.7	4.6	<10	<2	<2	<2
MW-22 (MID)	04/16/14	Parsons	<100	100 HD	<0.50	<0.50	<0.50	<0.50	5.0	6.8	<10	0.64 J	<2	<2
MW-22 (MID)	10/28/14	SGL	<100	210	<0.50	<0.50	<0.50	<1.5	8.8	9.1	<10	<2.0	<2.0	<2.0
MW-22 (MID)	04/24/15	SGL	<100	240	<0.50	<0.50	<0.50	<1.5	10	8.9	19	2.6	<2.0	<2.0
MW-22 (MID)	10/23/15	SGL	<100	160	<0.50	<0.50	<0.50	<1.5	8.7	6.5	18	2.7	<2.0	<2.0
MW-22 (MID)	10/23/15	SGL	<100	140	<0.50	<0.50	<0.50	<1.5	6.4	5.2	12	2.4	<2.0	<2.0
MW-22 (MID)	04/13/16	SGL	<100	170	<0.50	<0.50	0.87	2.7	6.8	5.0	<10	<2.0	<2.0	<2.0
MW-22 (MID)	10/05/16	SGL	<100	170	1.5	<0.50	<0.50	<1.5	7.1	4.4	<10	<2.0	<2.0	<2.0

APPENDIX E
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 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (ug/L)	TPH-d (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Xylenes (ug/L)	1,2-DCA (ug/L)	MTBE (ug/L)	TBA (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)
MW-22 (MID)	04/19/17	SGL	<100	110	<0.50	<0.50	<0.50	<1.5	2.9	2.1	<10	<2.0	<2.0	<2.0
MW-22 (MID)	10/05/17	SGL	<100	100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
MW-23 (MID)	11/21/96	GSI	1,400	<500	62	<0.50	18	3.5	0.60	----	----	----	----	----
MW-23 (MID)	07/09/97	GTI	----	----	160	<1	21	26	----	----	----	----	----	----
MW-23 (MID)	07/09/97	GTI	140	970	----	----	----	----	----	----	----	----	----	----
MW-23 (MID)	01/06/98	GTI	----	<100	<0.30	----	<0.30	----	----	----	----	----	----	----
MW-23 (MID)	05/20/98	BBC	<300	----	----	----	----	----	----	----	----	----	----	----
MW-23 (MID)	11/04/98	GTI	<300	----	<0.30	<0.30	<0.30	<0.60	----	----	----	----	----	----
MW-23 (MID)	05/27/99	GTI	<300	----	<0.30	<0.30	<0.30	<0.60	----	----	----	----	----	----
MW-23 (MID)	11/18/99	IT Corporation	<300	----	<0.30	<0.30	<0.30	<0.60	----	----	----	----	----	----
MW-23 (MID)	05/16/00	IT Corporation	<300	----	<0.30	<0.30	<0.30	<0.60	----	----	----	----	----	----
MW-23 (MID)	11/29/00	IT Corporation	<300	----	<0.30	<0.30	<0.30	<0.60	----	<5	----	----	----	----
MW-23 (MID)	05/10/01	IT Corporation	<300	----	<0.30	<0.30	<0.30	<0.60	----	<5	----	----	----	----
MW-23 (MID)	11/07/01	IT Corporation	<300	----	<0.30	<0.30	<0.30	<0.60	----	<5	----	----	----	----
MW-23 (MID)	04/10/02	IT Corporation	<300	----	<0.30	<0.30	<0.30	<0.60	----	<5	----	----	----	----
MW-23 (MID)	10/23/02	GTI	<300	----	<0.30	<0.30	<0.30	<0.30	----	<5	----	----	----	----
MW-23 (MID)	04/10/03	GTI	----	----	<1	<1	<1	<2	<3	<3	----	----	----	----
MW-23 (MID)	10/08/03	BT for Parsons	----	----	<0.30	<0.30	<0.30	<0.30	----	<5	----	----	----	----
MW-23 (MID)	04/22/04	BT for Parsons	----	----	<0.30	<0.30	<0.30	<0.30	----	<5	----	----	----	----
MW-23 (MID)	11/04/04	BT for Parsons	----	----	<0.30	<0.30	<0.30	<0.30	----	<5	----	----	----	----
MW-23 (MID)	05/10/05	BT for Parsons	----	----	0.40	0.79	0.41	<0.30	----	<5	----	----	----	----
MW-23 (MID)	05/03/06	BT for Parsons	----	----	<0.30	<0.30	<0.30	0.32	----	<5	----	----	----	----
MW-23 (MID)	12/06/06	BT for Parsons	----	----	<0.50	<0.50	<0.50	<1	----	<5	----	----	----	----
MW-23 (MID)	05/02/07	BT for Parsons	----	----	<0.50	<0.50	<0.50	<1	----	<5	----	----	----	----
MW-23 (MID)	11/14/07	BT for Parsons	----	----	<0.50	<0.50	<0.50	<1	----	<5	----	----	----	----
MW-23 (MID)	04/16/08	BT for Parsons	----	----	<0.50	<0.50	<0.50	<1	----	<5	----	----	----	----
MW-23 (MID)	10/15/08	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-23 (MID)	04/21/09	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	----	<0.50	----	----	----	----
MW-23 (MID)	10/23/09	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-23 (MID)	04/13/10	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	----	<0.50	4.8 J	<2	<2	<2
MW-23 (MID)	10/04/10	BT for Parsons	----	----	<0.50	----	----	----	<0.50	0.73	<10	----	----	----
MW-23 (MID)	04/14/11	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	2.9	<10	<2	<2	<2
MW-23 (MID)	10/13/11	Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	10	14	<2	<2	<2
MW-23 (MID)	04/19/12	Parsons	----	----	<0.50	<0.50	<0.50	0.32 J	<0.50	9.9	19	<2	<2	<2
MW-23 (MID)	10/19/12	Parsons	----	----	<0.50	<0.50	0.25 J	0.43	<0.50	4.3	<10	<2	<2	<2
MW-23 (MID)	04/11/13	Parsons	----	4,800	<0.50	<0.50	<0.50	0.85 J	<0.50	2.9	13	<2	<2	<2
MW-24	11/21/96	GSI	92	<500	<0.50	<0.50	<0.50	<1.5	<0.50	----	----	----	----	----
MW-24	07/09/97	GTI	100	1,400	11	<5	<5	<5	<5	<5	----	----	----	----
MW-24	01/06/98	GTI	700	<100	93	<0.50	4.0	<1	<0.50	<0.50	----	----	----	----
MW-24	05/20/98	BBC	<300	----	<0.30	<0.50	<0.50	<1	<0.50	<0.50	----	----	----	----
MW-24	11/04/98	GTI	<300	----	11	2.7	2.1	18	<0.50	<0.50	----	----	----	----
MW-24	05/26/99	GTI	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-24	11/18/99	IT Corporation	<300	----	<0.50	<1	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-24	05/16/00	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-24	11/29/00	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-24	05/09/01	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-24	11/07/01	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-24	04/10/02	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-24	10/23/02	GTI	<300	----	<0.50	<1	<1	<1	<0.50	<1	----	----	----	----
MW-24	04/11/03	GTI	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-24	10/08/03	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
MW-24	04/22/04	BT for Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-24	11/04/04	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-24	05/07/05	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-24	11/08/05	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-24	05/03/06	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-24	12/06/06	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-24	05/03/07	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-24	11/14/07	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-24	04/17/08	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-24	10/16/08	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-24	04/21/09	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-24	10/23/09	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-24	04/13/10	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-24	10/04/10	BT for Parsons	-----	-----	<0.50	-----	-----	-----	<0.50	0.51	<10	-----	-----	-----
MW-24	04/13/11	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-24	10/13/11	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-24	04/18/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	2.6	6.3 J	<2	<2	<2
MW-24	10/16/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	1.7	<10	<2	<2	<2
MW-24	04/09/13	Parsons	-----	150 b	<0.50	<0.50	<0.50	<0.50	<0.50	0.87	<10	<2	<2	<2
MW-24	10/08/13	Parsons	<100	230 HD	<0.50	<0.50	<0.50	<0.50	<0.50	1.0	<10	<2	<2	<2
MW-24	04/16/14	Parsons	<100	110 HD	<0.50	<0.50	<0.50	<0.50	<0.50	0.87	<10	<2	<2	<2
MW-24	10/28/14	SGL	<100	240	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
MW-24	10/28/14	SGL	<100	240	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
MW-24	04/24/15	SGL	<100	200	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
MW-24	10/22/15	SGL	<100	100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
MW-24	10/22/15	SGL	<100	100	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
MW 24	04/13/16	SGL	<100	<100	<0.50	<0.50	1.2	3.9	<0.50	<1.0	<10	<2.0	<2.0	<2.0
MW-24	04/18/17	SGL	<100	<100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
MW-24	10/02/17	SGL	<100	210	1.0	<0.50	4.7	1.7	<0.50	<1.0	<10	<2.0	<2.0	<2.0
MW-24	10/25/17	SGL	-----	410	<0.50	<0.50	<0.50	<1.5	<0.50	1.0	<10	<2.0	<2.0	<2.0
MW-25	11/21/96	GSI	<50	<500	<0.50	<0.50	<0.50	<1.5	17	<5	-----	-----	-----	-----
MW-25	07/09/97	GTI	<50	660	<5	<5	<5	<5	17	<5	-----	-----	-----	-----
MW-25	01/06/98	GTI	<500	<100	<0.50	<0.50	<0.50	<1	15	<0.50	-----	-----	-----	-----
MW-25	05/21/98	BBC	<300	-----	<0.30	<0.50	<0.50	<1	8.6	<0.50	-----	-----	-----	-----
MW-25	11/04/98	GTI	<300	-----	<0.50	<0.50	<0.50	<0.50	11	<0.50	-----	-----	-----	-----
MW-25	05/06/99	Alton Geoscience	<500	<500	1.9	1.2	0.68	3.3	14	1.3	-----	-----	-----	-----
MW-25	05/26/99	GTI	<300	-----	<0.50	<0.50	<0.50	<0.50	10	<0.50	-----	-----	-----	-----
MW-25	11/18/99	IT Corporation	<300	-----	<0.50	<1	<0.50	<0.50	27	0.70	-----	-----	-----	-----
MW-25	05/16/00	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	50	4.7	-----	-----	-----	-----
MW-25	11/28/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	62	11	-----	-----	-----	-----
MW-25	11/29/00	IT Corporation	<300	-----	<0.50	0.60	<0.50	0.80	73	14	-----	-----	-----	-----
MW-25	05/09/01	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	45	7.1	-----	-----	-----	-----
MW-25	05/09/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	36	6.2	-----	-----	-----	-----
MW-25	11/07/01	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	39	9.3	-----	-----	-----	-----
MW-25	04/12/02	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	23	9.4	-----	-----	-----	-----
MW-25	10/24/02	GTI	<300	-----	<0.50	<1	<1	<1	15	5.1	-----	-----	-----	-----
MW-25	04/11/03	GTI	-----	-----	<0.50	<0.50	<0.50	<0.50	30.6	8.61	-----	-----	-----	-----
MW-25	10/11/03	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	13	3.4	-----	-----	-----	-----
MW-25	04/22/04	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	13	3.5	<10	2.4	<2	<2
MW-25	11/04/04	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	17	3.4	<10	2.9	<2	<2
MW-25	05/07/05	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	2.8	5	<10	<2	<2	<2
MW-25	11/08/05	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	0.95	1.9	<10	<2	<2	<2
MW-25	05/05/06	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	4.3	10	<10	<2	<2	<2

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-25	12/05/06	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	3	3.5	<10	<2	<2	<2
MW-25	05/03/07	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	2.8	2.3	<10	<2	<2	<2
MW-25	11/14/07	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	1.6	1.3	<10	<2	<2	<2
MW-25	04/17/08	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	4.5	4.3	<10	<2	<2	<2
MW-25	10/16/08	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	8.9	6.1	<10	2.3	<2	<2
MW-25	04/22/09	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	8.3	2.9	<10	<2	<2	<2
MW-25	10/23/09	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	4.1	0.83	<10	<2	<2	<2
MW-25	04/13/10	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	10	2.7	<10	2.5	<2	<2
MW-25	10/04/10	BT for Parsons	-----	-----	<0.50	-----	-----	-----	2	0.35 J	<10	-----	-----	-----
MW-25	04/12/11	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	7.1	1.4	<10	0.71 J	<2	<2
MW-25	10/13/11	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	1.4	0.31 J	<10	<2	<2	<2
MW-25	04/17/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	1.3	<0.50	<10	<2	<2	<2
MW-25	10/16/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	3.4	0.67	<10	<2	<2	<2
MW-25	04/09/13	Parsons	-----	<100	<0.50	<0.50	<0.50	<0.50	3.6	0.49 J	<10	<2	<2	<2
MW-26	11/21/96	GSI	6,700	<500	460	400	200	340	-----	-----	-----	-----	-----	-----
MW-26	07/10/97	GTI	<50	270	<5	<5	<5	<5	<5	340	-----	-----	-----	-----
MW-26	01/06/98	GTI	<500	<100	<2.5	<2.5	<2.5	<5	<2.5	407	-----	-----	-----	-----
MW-26	05/21/98	BBC	<300	-----	<0.30	<0.50	<0.50	<1	<0.50	<0.50	-----	-----	-----	-----
MW-26	11/04/98	GTI	<300	-----	<0.50	1.3	<0.50	1.1	<0.50	146	-----	-----	-----	-----
MW-26	05/26/99	GTI	8,260	-----	3,000	170	400	1,000	<0.50	380	-----	-----	-----	-----
MW-26	11/18/99	IT Corporation	<300	-----	<0.50	<1	<0.50	<0.50	<0.50	3.4	-----	-----	-----	-----
MW-26	05/16/00	IT Corporation	8,400	-----	2,300	<5	410	1,480	<5	76	-----	-----	-----	-----
MW-26	11/29/00	IT Corporation	1,800	-----	440	15	69	240	<10	69	-----	-----	-----	-----
MW-26	05/10/01	IT Corporation	<300	-----	2.1	<0.50	<0.50	<0.50	<0.50	1.9	-----	-----	-----	-----
MW-26	11/07/01	IT Corporation	1,700	-----	370	79	37	171	<0.50	35	-----	-----	-----	-----
MW-26	04/11/02	IT Corporation	4,000	-----	1,200	<5	230	528	<5	65	-----	-----	-----	-----
MW-26	10/24/02	GTI	2,100	-----	970	<5	<5	262	<2.5	74	-----	-----	-----	-----
MW-26	04/11/03	GTI	-----	-----	858	<0.50	243	78.6	<0.50	108	-----	-----	-----	-----
MW-26	10/11/03	BT for Parsons	-----	-----	4.6	<0.50	5.7	0.54	<0.50	29	-----	-----	-----	-----
MW-26	04/22/04	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	140	18	<2	<2	<2
MW-26	11/04/04	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	110	23	<2	<2	<2
MW-26	05/07/05	BT for Parsons	-----	-----	<0.50	<0.50	3.1	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-26	11/08/05	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-26	05/05/06	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-26	12/06/06	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	1.9	<10	<2	<2	<2
MW-26	05/03/07	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	2	<10	<2	<2	<2
MW-26	11/14/07	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	4.4	<10	<2	<2	<2
MW-26	04/17/08	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.99	<10	<2	<2	<2
MW-26	10/16/08	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	5	<10	<2	<2	<2
MW-26	04/22/09	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-26	10/23/09	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	2	<10	<2	<2	<2
MW-26	04/13/10	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.66	<10	<2	<2	<2
MW-26	10/04/10	BT for Parsons	-----	-----	1.6	-----	-----	-----	<0.50	0.68	<10	-----	-----	-----
MW-26	04/13/11	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	2.3	<10	<2	<2	<2
MW-26	10/13/11	Parsons	-----	-----	1.4	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-26	04/17/12	Parsons	-----	-----	1.1	<0.50	0.32 J	0.57 J	<0.50	3.7	9.7 J	<2	<2	<2
MW-26	10/16/12	Parsons	-----	-----	3.9	0.5	2.2	0.69	<0.50	1.4	5.6 J	<2	<2	<2
MW-26	04/09/13	Parsons	-----	990 b	2.0	0.36 J	1.5	0.36 J	<0.50	0.74	<10	<2	<2	<2
MW-26	10/08/13	Parsons	610	730 HD	9.9	0.33 J	0.95	0.74	<0.50	0.97	5.9 J	<2	<2	<2
MW-26	04/16/14	Parsons	1,200 HD	990 HD	1.7	0.47 J	1.1	0.84	<0.50	<0.50	14	<2	<2	<2
MW-26	10/30/14	SGI	1,400	670	<0.50	<0.50	0.54	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
MW-26	04/29/15	SGI	430	500	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0

APPENDIX E
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 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-26	10/23/15	SGI	280	230	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
MW 26	04/13/16	SGI	200	200	0.80	<0.50	1.6	4.9	<0.50	<1.0	<10	<2.0	<2.0	<2.0
DUP-4 (MW 26)	04/13/16	SGI	240	190	0.71	<0.50	1.4	4.8	<0.50	1.2	<10	<2.0	<2.0	<2.0
MW-26	10/05/16	SGI	170	270	2.2	<0.50	<0.50	<1.5	<0.50	1.0	<10	<2.0	<2.0	<2.0
MW-26	04/19/17	SGI	<100	100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
MW-26	10/04/17	SGI	210	370	1.0	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
DUP-4 (MW-26)	10/04/17	SGI	230	330	0.91	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
MW-27	11/22/96	GSI	<50	<500	180	12	25	50	<0.50	-----	-----	-----	-----	-----
MW-27	07/10/97	GTI	420	400	1,400	28	53	253	<5	79	-----	-----	-----	-----
MW-27	01/06/98	GTI	1,500	<100	940	<5	70	20	20	90	-----	-----	-----	-----
MW-27	05/21/98	BBC	<300	-----	<0.30	<0.50	<0.50	<1	<0.50	<0.50	-----	-----	-----	-----
MW-27	11/04/98	GTI	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
MW-27	05/26/99	GTI	<300	-----	<0.50	<0.50	0.71	1.3	<0.50	1.1	-----	-----	-----	-----
MW-27	11/18/99	IT Corporation	7,200	-----	1,700	8.6	100	1,110	<0.50	170	-----	-----	-----	-----
MW-27	05/16/00	IT Corporation	<300	-----	1.7	<0.50	<0.50	<0.50	<0.50	5.0	-----	-----	-----	-----
MW-27	11/29/00	IT Corporation	<300	-----	0.90	0.70	0.70	1.0	0.60	17	-----	-----	-----	-----
MW-27	05/10/01	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
MW-27	11/07/01	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
MW-27	04/11/02	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.90	-----	-----	-----	-----
MW-27	10/24/02	GTI	<300	-----	<0.50	<1	<1	<1	<0.50	9.7	-----	-----	-----	-----
MW-27	04/11/03	GTI	-----	-----	<0.50	<0.50	2.8	<0.50	<0.50	17	-----	-----	-----	-----
MW-27	10/11/03	BT for Parsons	-----	-----	6.2	<0.50	0.79	<0.50	<0.50	8.9	-----	-----	-----	-----
MW-27	04/22/04	BT for Parsons	-----	-----	130	<0.50	16	<0.50	<0.50	65	20	<2	<2	<2
MW-27	11/06/04	BT for Parsons	-----	-----	1.6	<0.50	17	<0.50	<0.50	65	21	<2	<2	<2
MW-27	05/07/05	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-27	11/08/05	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.59	<10	<2	<2	<2
MW-27	05/05/06	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-27	12/06/06	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	2.3	<10	<2	<2	<2
MW-27	05/03/07	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	1.5	<10	<2	<2	<2
MW-27	11/14/07	BT for Parsons	-----	-----	1.3	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-27	04/18/08	BT for Parsons	-----	-----	2.9	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-27	10/17/08	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-27	04/22/09	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-27	10/26/09	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.54	<10	<2	<2	<2
MW-27	04/13/10	BT for Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	7.5 J	<2	<2	<2
MW-27	10/04/10	BT for Parsons	-----	-----	<0.50	-----	-----	-----	<0.50	<0.50	<10	-----	-----	-----
MW-27	04/12/11	BT for Parsons	-----	-----	<0.50	<0.50	0.35 J	3.2	<0.50	<0.50	<10	<2	<2	<2
MW-27	10/13/11	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-27	04/17/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-27	10/16/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	5.0	12	<2	<2	<2
MW-27	04/09/13	Parsons	-----	310 b	<0.50	<0.50	<0.50	<0.50	<0.50	3.8	23	<2	<2	<2
MW-27	10/08/13	Parsons	<100	130 HD	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	5.7 J	<2	<2	<2
MW-27	10/29/14	SGI	<100	140	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
MW-27	04/22/15	SGI	<100	160	<0.50	<0.50	<0.50	<1.5	<0.50	3.4	<10	<2.0	<2.0	<2.0
MW-27	10/23/15	SGI	<100	130	<0.50	<0.50	<0.50	<1.5	<0.50	3.7	<10	<2.0	<2.0	<2.0
MW 27	04/13/16	SGI	<100	160	1.2	<0.50	1.7	5.5	<0.50	3.3	<10	<2.0	<2.0	<2.0
MW-27	10/05/16	SGI	<100	220	<0.50	<0.50	<0.50	<1.5	<0.50	3.1	<10	<2.0	<2.0	<2.0
DUP-3 (MW-27)	10/05/16	SGI	<100	250	<0.50	<0.50	<0.50	<1.5	<0.50	3.2	<10	<2.0	<2.0	<2.0
MW-27	04/19/17	SGI	<100	130	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
MW-27	10/04/17	SGI	<100	260	<0.50	<0.50	<0.50	<1.5	<0.50	3.1	<10	<2.0	<2.0	<2.0
MW-28	11/27/96	GSI	1,500	<500	<2.5	<2.5	<2.5	<5	<2.5	-----	-----	-----	-----	-----
MW-28	07/10/97	GTI	220	2,200	<5	<5	<5	<5	<5	<5	-----	-----	-----	-----

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-28	01/07/98	GTI	<500	<100	<0.50	<0.50	<0.50	<1	<0.50	<0.50	-----	-----	-----	-----
MW-28	05/21/98	BBC	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
MW-28	11/05/98	GTI	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
MW-28	05/26/99	GTI	<300	-----	0.33	<0.30	<0.30	0.70	-----	-----	-----	-----	-----	-----
MW-28	11/18/99	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
MW-28	05/17/00	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	-----	-----	-----	-----	-----
MW-28	12/01/00	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	<5	-----	-----	-----	-----
MW-28	05/10/01	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	<5	-----	-----	-----	-----
MW-28	11/08/01	IT Corporation	300	-----	<0.30	<0.30	<0.30	<0.60	-----	<5	-----	-----	-----	-----
MW-28	04/12/02	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	<5	-----	-----	-----	-----
MW-28	04/22/15	SGI	<100	420	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
MW-28	04/20/17	SGI	<100	170	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
MW-29	05/21/98	BBC	84,700	-----	313	46	314	366	-----	-----	-----	-----	-----	-----
MW-29	11/05/98	GTI	28,600	-----	87	<0.30	2.2	31	-----	-----	-----	-----	-----	-----
MW-29	05/27/99	GTI	1,810	-----	150	<0.60	160	23	-----	-----	-----	-----	-----	-----
MW-29	11/18/99	IT Corporation	5,100	-----	220	<0.30	190	21	-----	-----	-----	-----	-----	-----
MW-29	05/17/00	IT Corporation	1,100	-----	23	<0.30	35	7.6	-----	-----	-----	-----	-----	-----
MW-29	11/30/00	IT Corporation	2,400	-----	120	<0.30	160	4.4	-----	<5	-----	-----	-----	-----
MW-29	05/09/01	IT Corporation	<300	-----	<0.30	<0.30	<0.30	<0.60	-----	<5	-----	-----	-----	-----
MW-29	11/07/01	IT Corporation	1,500	-----	14	<0.30	3.7	2.1	-----	8.3	-----	-----	-----	-----
MW-29	02/01/02	Secor	-----	-----	100	7.3	160	990	<0.50	<0.50	-----	-----	-----	-----
MW-29	04/11/02	IT Corporation	860	-----	4.1	<0.30	4.3	12	-----	<5	-----	-----	-----	-----
MW-29	04/12/13	Parsons	-----	2,200	<0.50	<0.50	0.64	1.19 J	<0.50	<0.50	<10	<2	<2	<2
MW-29	10/08/13	Parsons	570	2,900 HD	0.21 J	<0.50	0.75	1.4	<0.50	<0.50	8.7 J	<2	<2	<2
MW-29	04/17/14	Parsons	710 HD	3,300 HD	11	<0.50	0.75	1.5	<0.50	<0.50	9.4 J	<2	<2	<2
MW-29	10/31/14	SGI	700	3,200	6.4	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
MW-29	04/29/15	SGI	370	2,900	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<11	<2.0	<2.0	<2.0
MW-29	10/26/15	SGI	120	490	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
MW 29	04/14/16	SGI	<100	350	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
DUP-6 (MW 29)	04/14/16	SGI	<100	360	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
MW-29	10/07/16	SGI	<100	250	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
DUP-6 (MW-29)	10/07/16	SGI	<100	230	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
MW-29	04/20/17	SGI	<100	380	<0.50	<0.50	<0.50	<1	<0.50	<1.0	<10	<2.0	<2.0	<50
MW-29	10/04/17	SGI	<100	630	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<20
MW-O-1	10/08/10	Blaine Tech	32,000	-----	3,700	1,700	1,100	1,800	<50	60	<500	<50	<50	<20
MW-O-1	04/13/11	Blaine Tech	14,000	-----	1,900	370	400	2,400	<20	13	<200	<20	<20	<2.0
MW-O-1	10/14/11	CH2M Hill	15,000	-----	580	240	580	1,800	<20	<10	<200	<20	<20	26
MW-O-1	10/19/12	CHHL	4,500	8,800	570	160	94	540	<4	17	59	<4	<4	<4
MW-O-1	10/27/15	BT for CH2MHill	26,000	20,000	5,900	3,100	110	810	<100	280	<1,000	<100	<100	<100
MW-O-2	10/05/10	Blaine Tech	570	-----	87	5.6	7.2	33	<1	81	33	3.3	<1	<1
MW-O-2	04/27/12	CH2M Hill	21,000	13,000	7,900	120	200	570	<100	160	<1,000	<100	<100	<100
MW-O-2	06/06/13	CHHL	10,000	7,000	5,400	<40	91	200	<80	190	<800	<80	<80	<80
MW-O-2	10/11/13	CHHL	43,000	4,800	17,000	710	530	1,500	<130	710	<1,300	<130	<130	<130
MW-O-2	04/17/14	CHHL	37,000	1,200	16,000	1,600	220	1,500	<100	900	2,100	<100	<100	<100
MW-O-2	10/06/17	BT for CH2MHill	23,000	11,000	9,400	<50	99	820	<100	210	1,500	130	<100	<100
MW-SF-1	03/11/03	Geomatrix	1,700	-----	1,400	16	76	54	<1	620	-----	-----	-----	-----
MW-SF-1	08/01/03	Secor	13,000	-----	4,200	240	420	1,020	<30	910	-----	-----	-----	-----
MW-SF-1	10/07/03	Secor	15,000	-----	4,800	170	390	1,060	<40	800	-----	-----	-----	-----
MW-SF-1	04/22/04	Secor	27,000	-----	11,000	510	480	970	<100	3,800	-----	-----	-----	-----
MW-SF-1	11/03/04	Secor	34,000	-----	13,000	400	690	1,170	<100	2,600	-----	-----	-----	-----
MW-SF-1	05/06/05	Secor	12,000	-----	3,900	220	240	340	<30	670	-----	-----	-----	-----
MW-SF-1	11/02/05	Secor	15,000	-----	5,600	340	330	1,050	<50	570	-----	-----	-----	-----

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Xylenes	1,2-DCA	MTBE	TBA	DIPE	ETBE	TAME
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-SF-1	05/09/06	Secor	20,000	-----	8,200	730	570	1,050	<100	1,300	-----	-----	-----	-----
MW-SF-1	12/08/06	Secor	19,000	-----	7,000	640	590	960	<100	650	-----	-----	-----	-----
MW-SF-1	03/13/07	Secor	10,000	-----	3,400	320	390	790	<50	160	-----	-----	-----	-----
MW-SF-1	05/04/07	Secor	11,000	-----	3,400	110	430	229	<50	340	-----	-----	-----	-----
MW-SF-1	08/30/07	Secor	16,000	-----	6,000	210	550	290	<100	430	-----	-----	-----	-----
MW-SF-1	11/14/07	Secor	16,000	-----	6,100	180	540	213	<50	400	-----	-----	-----	-----
MW-SF-1	02/21/08	Secor	23,000	-----	11,000	280	530	500	<100	1,100	-----	-----	-----	-----
MW-SF-1	04/16/08	Secor	21,000	-----	11,000	350	440	550	<200	740	-----	-----	-----	-----
MW-SF-1	08/14/08	Secor	18,000	-----	8,200	240	390	253	<100	490	-----	-----	-----	-----
MW-SF-1	10/16/08	Stantec	21,000	-----	10,000	280	490	477	<100	770	-----	-----	-----	-----
MW-SF-1	02/24/09	Blaine Tech	11,000	-----	6,300	85	160	65	<50	420	<500	-----	-----	-----
MW-SF-1	04/20/09	Blaine Tech for AMEC	16,000	-----	7,500	210	340	261	<100	340	<1,000	<100	<100	<100
MW-SF-1	07/22/09	Blaine Tech	12,000	-----	6,300	110	180	89	<50	510	540	<50	<50	<50
MW-SF-1	10/23/09	Blaine Tech	21,000	-----	11,000	110	350	63	<100	620	<1,000	<100	<100	<100
MW-SF-1	03/16/10	Blaine Tech	13,000	-----	5,900	56	120	55	<50	650	<500	<50	<50	<50
MW-SF-1	05/27/10	Blaine Tech	8,800	-----	3,900	46	150	51	<40	140	<400	<40	<40	<40
MW-SF-1	07/13/10	Blaine Tech	8,600	-----	4,000	41	64	<25	<50	350	<500	<50	<50	<50
MW-SF-1	10/07/10	Blaine Tech	10,000	-----	5,200	58	67	<50	<100	440	<1,000	<100	<100	<100
MW-SF-1	01/12/11	Blaine Tech	15,000	-----	8,500	<50	<50	<50	<100	650	<1,000	<100	<100	<100
MW-SF-1	04/13/11	Blaine Tech	16,000	-----	7,800	62	97	93	<100	450	<1,000	<100	<100	<100
MW-SF-1	07/12/11	CH2M Hill	8,400	-----	4,700	34	76	<38	<50	240	<500	<50	<50	<50
MW-SF-1	10/12/11	CH2M Hill	9,500	-----	4,500	32	71	37	<50	180	<500	<50	<50	<50
MW-SF-1	01/10/12	CH2M Hill	15,000	-----	7,300	94	140	140	<100	240	<1,000	<100	<100	<100
MW-SF-1	04/19/12	CH2M Hill	8,800	17,000	4,600	33	90	83	<50	110	<500	<50	<50	<50
MW-SF-1	10/18/12	CHHL	3,700	6,400	1,500	<10	15	<10	<20	45	<200	<20	<20	<20
MW-SF-1	01/15/13	CHHL	8,500	4,100	4,500	93	56	39	<50	110	<500	<50	<50	<50
MW-SF-1	10/07/16	BT for CH2MHill	55	1,200	<0.50	<0.50	<0.50	<0.50	<0.50	0.57	<10	<1.0	<1.0	<1.0
MW-SF-1	04/20/17	BT for CH2MHill	<100	1,800	2.1	<0.50	<0.50	<0.50	<1	0.92	17	<1.0	<1.0	<1.0
MW-SF-1	10/06/17	BT for CH2MHill	<100	570	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<1.0	<1.0	<1.0
MW-SF-2	10/05/10	Blaine Tech	110,000	-----	21,000	18,000	1,200	7,100	<200	1,700	<2,000	<200	<200	<200
MW-SF-2	04/14/11	Blaine Tech	48,000	-----	15,000	1,800	600	5,400	<200	930	<2,000	<200	<200	<200
MW-SF-2	10/13/11	CH2M Hill	72,000	-----	18,000	9,600	660	5,100	<200	940	<2,000	<200	<200	<200
MW-SF-3	10/04/10	Blaine Tech	<500	-----	32	10	<2.5	8.4	<5	50	3,000	<5	<5	<5
MW-SF-3	04/29/11	Blaine Tech	15,000	-----	5,200	590	140	520	<50	2,300	1,200	<50	<50	<50
MW-SF-3	10/14/11	CH2M Hill	9,500	-----	4,300	<25	28	38	<50	98	<500	<50	<50	<50
MW-SF-3	11/03/15	BT for CH2MHill	280,000	240,000	11,000	18,000	1,200	28,000	<200	7,600	<2,000	<200	<200	<200
MW-SF-4	03/11/03	Geomatrix	3,600	-----	1,100	<13	180	120	<13	750	-----	-----	-----	-----
MW-SF-4	10/08/03	Secor	40,000	-----	4,600	1,900	990	5,200	<40	530	-----	-----	-----	-----
MW-SF-4	02/21/08	Secor	25,000	-----	4,100	89	1,200	2,730	<40	330	-----	-----	-----	-----
MW-SF-4	04/16/08	Secor	21,000	-----	4,600	94	970	2,920	<100	380	-----	-----	-----	-----
MW-SF-4	08/14/08	Secor	20,000	-----	4,200	43	1,100	770	<50	260	-----	-----	-----	-----
MW-SF-4	10/16/08	Stantec	17,000	-----	3,700	42	1,100	1,196	<40	170	-----	-----	-----	-----
MW-SF-4	02/23/09	Blaine Tech	20,000	-----	6,400	92	1,000	1,420	<50	950	<500	-----	-----	-----
MW-SF-4	05/28/10	Blaine Tech	17,000	-----	7,200	39	370	250	<50	440	<500	120	<50	<50
MW-SF-4	07/14/10	Blaine Tech	13,000	-----	4,400	37	450	360	<50	320	<500	64	<50	<50
MW-SF-4	10/07/10	Blaine Tech	30,000	-----	8,900	<50	940	770	<100	620	<1,000	<100	<100	<100
MW-SF-4	01/12/11	Blaine Tech	20,000	-----	8,500	<50	350	280	<100	350	<1,000	100	<100	<100
MW-SF-4	04/13/11	Blaine Tech	11,000	-----	2,600	<15	320	297	<30	180	<300	<30	<30	<30
MW-SF-4	07/12/11	CH2M Hill	15,000	-----	4,500	36	530	540	<50	220	<500	<50	<50	<50
MW-SF-4	01/10/12	CH2M Hill	22,000	-----	4,900	<25	590	770	<50	160	<500	<50	<50	<50
MW-SF-4	04/20/12	CH2M Hill	19,000	7,200	4,500	36	480	430	<50	460	<500	<50	<50	<50
MW-SF-4	10/19/12	CHHL	8,900	9,900	2,200	40	280	420	<20	160	410	<20	<20	<20

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017

Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-SF-4	01/15/13	CHHL	13,000	3,700	5,000	46	660	300	<80	380	<800	<80	<80	<80
MW-SF-4	10/07/16	BT for CH2MHill	<500	4,700	<2.5	<2.5	<2.5	<2.5	<5.0	<2.5	<50	<5.0	<5.0	<5.0
MW-SF-4	04/20/17	BT for CH2MHill	<100	1,400 J	3.4	<0.50	0.53	1.2	<1	1.2	<10	5.6	<1.0	<1.0
MW-SF-4	10/06/17	BT for CH2MHill	<200	3,300	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<20	<2.0	<2.0	<2.0
MW-SF-5	10/08/10	Blaine Tech	540	----	110	1.1	<1	<1	<2	400	180	18	<2	<2
MW-SF-5	04/13/11	Blaine Tech	570	----	41	<2	<2	<2	<4	380	270	24	<4	<4
MW-SF-5	10/13/11	CH2M Hill	<500	----	6.9	<2.5	<2.5	<2.5	<5	240	100	11	<5	<5
MW-SF-5	10/31/14	BT for CH2MHill	<200	1,800	3.4	7.0	1.0	14	<2.0	17	70	<2.0	<2.0	<2.0
MW-SF-5	04/24/15	BT for CH2MHill	<500	1,200	190	<2.5	<2.5	<2.5	<5.0	16	<50	<5.0	<5.0	<5.0
MW-SF-5	10/27/15	BT for CH2MHill	270	370	13	0.52	<0.50	0.89	<0.50	10	35	2.0	<2.0	<2.0
MW-SF-6	10/08/10	Blaine Tech	59,000	----	15,000	7,200	940	4,300	<200	740	<2,000	<200	<200	<200
MW-SF-6	04/14/11	Blaine Tech	32,000	----	12,000	330	540	3,800	<100	810	<1,000	<100	<100	<100
MW-SF-6	10/13/11	CH2M Hill	40,000	----	14,000	420	780	3,600	<200	570	<2,000	<200	<200	<200
MW-SF-6	10/07/16	BT for CH2MHill	8,400	10,000	430	<5.0	35	640	<10	53	390	<10	<10	<10
MW-SF-6	04/20/17	BT for CH2MHill	2,000	3,900	42	<1.0	5.8	37	<2.0	21	130	22	<2.0	<2.0
MW-SF-6	10/06/17	BT for CH2MHill	1,300	71,000	98	<1.0	32	53	<2.0	3.1	32	4.2	<2.0	<2.0
MW-SF-9	03/11/03	Geomatrix	24,000	----	3,200	940	340	1,040	<25	1,600	----	----	----	----
MW-SF-9	08/01/03	Secor	6,600	----	980	72	140	430	<5	17	----	----	----	----
MW-SF-9	10/07/03	Secor	5,800	----	340	8.8	82	92	<5	3,200	----	----	----	----
MW-SF-9	05/04/05	Secor	5,700	----	730	73	130	190	<10	54	----	----	----	----
MW-SF-9	11/03/05	Secor	<500	----	9.4	<2.5	<2.5	<2.5	<5	<2.5	----	----	----	----
MW-SF-9	12/08/06	Secor	<500	----	35	<2.5	<2.5	3.6	<5	8.7	----	----	----	----
MW-SF-9	11/14/07	Secor	110	----	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----	----
MW-SF-9	04/16/08	Secor	920	----	200	1.4	6.3	3.9	<1	16	----	----	----	----
MW-SF-9	10/21/08	Stantec	350	----	10	<0.50	2.3	<0.50	<1	<0.50	----	----	----	----
MW-SF-9	04/23/09	Blaine Tech for AMEC	430	----	44	<0.50	1.2	<0.50	<0.50	<0.50	<10	<1	<1	<1
MW-SF-9	10/22/09	Blaine Tech	2,400	----	1,300	<10	11	<10	<20	13	<200	<20	<20	<20
MW-SF-9	05/27/10	Blaine Tech	350	----	100	1.3	<1	<1	<2	<1	<20	<2	<2	<2
MW-SF-9	10/07/10	Blaine Tech	1,100	----	450	7.8	17	<2.5	<5	<2.5	<50	<5	<5	<5
MW-SF-9	04/13/11	Blaine Tech	310	----	36	<0.50	<0.50	1.2	<1	<0.50	<10	<1	<1	<1
MW-SF-9	04/19/12	CH2M Hill	480	3,300	160	<1	<1	<1	<2	<1	<20	2.2	<2	<2
MW-SF-9	06/06/13	CHHL	2,300	4,500	680	25	52	190	<10	20	<100	40	<10	<10
MW-SF-9	10/11/13	CHHL	4,100	7,300	910	220	55	310	<20	17	<200	<20	<20	<20
MW SF 9	04/14/16	BT for CH2MHill	2,300	5,100	96	1.8	64	170	<3	1.7	130	3.4	<3	<3
MW-SF-10	10/05/10	Blaine Tech	30,000	----	1,500	1,200	600	2,700	<30	31	<300	<30	<30	<30
MW-SF-10	04/14/11	Blaine Tech	31,000	----	520	68	410	6,500	<20	21	<200	<20	<20	<20
MW-SF-10	10/13/11	CH2M Hill	18,000	----	320	320	260	2,900	<20	<10	<200	<20	<20	<20
MW-SF-11	10/05/10	Blaine Tech	7,800	----	4,000	210	<15	110	<30	140	940	<30	<30	<30
MW-SF-11	04/29/11	Blaine Tech	16,000	----	10,000	60	95	140	<100	130	<1,000	<100	<100	<100
MW-SF-11	10/13/11	CH2M Hill	30,000	----	14,000	250	340	600	<200	<100	<2,000	<200	<200	<200
MW-SF-11	04/19/12	CH2M Hill	15,000	160	8,100	130	110	480	<100	100	<1,000	<100	<100	<100
MW-SF-11	10/18/12	CHHL	77,000	320	18,000	420	2,600	6,500	<200	<100	<2,000	<200	<200	<200
MW-SF-12	10/05/10	Blaine Tech	17,000	----	5,300	1,800	110	680	<50	2,200	880	<50	<50	<50
MW-SF-12	04/29/11	Blaine Tech	27,000	----	5,900	4,400	340	3,400	<50	2,200	<500	<50	<50	<50
MW-SF-12	10/13/11	CH2M Hill	110,000	----	24,000	18,000	1,000	6,400	<200	7,200	<2,000	<200	<200	<200
MW-SF-13	10/05/10	Blaine Tech	9,000	----	2,100	1,000	83	520	<20	680	280	61	<20	<20
MW-SF-13	04/29/11	Blaine Tech	3,400	----	1,000	64	20	189	<10	39	270	23	<10	<10
MW-SF-13	10/14/11	CH2M Hill	42,000	----	12,000	5,200	300	2,200	<200	580	<2,000	<200	<200	<200
MW-SF-13	10/07/16	BT for CH2MHill	5,300	4,400	<5.0	<5.0	200	340	<10	<5.0	<100	<10	<10	<10
MW-SF-13	04/20/17	BT for CH2MHill	2,000	1,500	3.9	1.6	26	60	<2	1.9	36	4.8	<2.0	<2.0
MW-SF-13	10/06/17	BT for CH2MHill	<100	2,700	2.0	0.67	<0.50	<0.50	<1.0	0.98	18	2.6	<1.0	<1.0
MW-SF-14	10/08/10	Blaine Tech	30,000	----	10,000	300	900	1,400	<200	1,900	2,300	<200	<200	<200

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 13506 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-SF-14	04/29/11	Blaine Tech	18,000	-----	12,000	84	130	150	<100	330	1,800	<100	<100	<100
MW-SF-14	10/13/11	CH2M Hill	<20,000	-----	9,100	120	<100	660	<200	760	<2,000	<200	<200	<200
MW-SF-14	04/19/12	CH2M Hill	15,000	450	8,200	47	43	120	<50	220	630	<50	<50	<50
MW-SF-14	10/18/12	CHHL	9,800	200	5,100	24	<20	64	<40	58	<400	<40	<40	<40
MW-SF-14	04/24/15	BT for CH2MHill	510	3,300	100	13	<2.5	18	<5.0	21	<50	<5.0	<5.0	<5.0
MW-SF-14	10/27/15	BT for CH2MHill	270,000	440,000	8,700	18,000	2,800	19,000	<200	2,600	<2,000	<200	<200	<200
MW SF 14	04/15/16	BT for CH2MHill	370	17,000	4.7	<0.50	<0.50	39	<0.50	63	500	<1.0	<1.0	<1.0
MW-SF-15	10/05/10	Blaine Tech	8,600	-----	1,900	700	63	500	<20	1,000	9,200	37	<20	<20
MW-SF-15	04/29/11	Blaine Tech	10,000	-----	5,500	230	100	361	<40	1,200	3,400	62	<40	<40
MW-SF-15	10/14/11	CH2M Hill	35,000	-----	11,000	860	210	1,700	<200	780	2,300	<200	<200	<200
MW-SF-15	10/07/16	BT for CH2MHill	<500	16,000	7.1	<2.5	<2.5	<2.5	<5.0	26	720	12	<5.0	<5.0
MW-SF-15	04/20/17	BT for CH2MHill	190	550	2.5	<0.50	0.69	<0.50	<1	17	300	48	<1.0	<1.0
MW-SF-15	10/06/17	BT for CH2MHill	110	1,300	1.5	<0.50	<0.50	<0.50	<1.0	1.3	180	52	<1.0	<1.0
MW-SF-16	10/04/10	Blaine Tech	4,100	-----	1,600	150	39	160	<20	170	1,800	39	<20	<20
MW-SF-16	04/29/11	Blaine Tech	5,900	-----	2,400	210	150	563	<20	210	370	30	<20	<20
MW-SF-16	10/14/11	CH2M Hill	7,900	-----	2,900	130	140	380	<50	200	<500	<50	<50	<50
MW-SF-16	10/31/14	BT for CH2MHill	100,000	110,000	7,400	7,800	1,000	17,000	<200	350	<2,000	<200	<200	<200
MW-SF-16	04/24/15	BT for CH2MHill	30,000	250,000	1,400	2,300	570	4,100	<40	170	<400	<40	<40	<40
MW-SF-16	10/27/15	BT for CH2MHill	3,000	490	750	39	35	160	<20	41	<200	37	<20	<20
PO-7	11/08/05	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
PW-1	11/27/96	Terra Services	-----	-----	<1	2.2	<1	2.0	<10	<10	-----	-----	-----	-----
PW-1	07/15/97	Terra Services	190	<500	<0.50	<0.50	<0.50	<1	180	<5	-----	-----	-----	-----
PW-1	01/05/98	Terra Services	<100	<500	<0.50	<0.50	<0.50	<1.5	68	<5	-----	-----	-----	-----
PW-1	05/22/98	Terra Services	<300	-----	<0.50	<0.50	<0.50	<1	38	<0.50	-----	-----	-----	-----
PW-1	11/13/98	Alton Geoscience	<300	-----	<0.50	<0.50	<0.50	<0.50	73	8.1	-----	-----	-----	-----
PW-1	05/06/99	Alton Geoscience	<500	<500	<0.50	<0.50	<0.50	<0.50	5.7	<0.50	-----	-----	-----	-----
PW-1	11/17/99	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	2.5	<0.50	-----	-----	-----	-----
PW-1	05/17/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	1.5	<0.50	-----	-----	-----	-----
PW-1	11/28/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	0.70	<0.50	-----	-----	-----	-----
PW-1	05/09/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	0.60	<0.50	-----	-----	-----	-----
PW-1	11/07/01	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	1.3	<0.50	-----	-----	-----	-----
PW-1	04/11/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
PW-1	10/23/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
PW-1	04/08/03	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
PW-1	10/08/03	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
PW-1	04/21/04	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
PW-1	11/04/04	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
PW-1	05/05/05	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	2.1	<0.50	-----	-----	-----	-----
PW-1	05/09/06	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
PW-1	12/07/06	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
PW-1	05/05/07	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
PW-1	11/14/07	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
PW-1	04/18/08	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
PW-1	11/21/08	Stantec	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
PW-1	04/20/09	Blaine Tech for AMEC	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
PW-1	10/21/09	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
PW-1	05/26/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
PW-1	10/06/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
PW-1	04/12/11	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
PW-1	10/11/11	CH2M Hill	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
PW-2	11/25/96	Terra Services	-----	-----	<0.50	<0.50	<0.50	<1.5	76	3.3	-----	-----	-----	-----
PW-2	07/14/97	Terra Services	140	<500	<0.50	<0.50	<0.50	<1	160	<5	-----	-----	-----	-----

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g	TPH-d	Benzene	Toluene	Ethyl- benzene	Xylenes	1,2-DCA	MTBE	TBA	DIPE	ETBE	TAME
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
PW-2	01/06/98	Terra Services	<100	<500	<0.50	<0.50	<0.50	<1.5	82	<5	----	----	----	----
PW-2	05/22/98	Terra Services	<300	----	<0.50	<0.50	<0.50	<1	37	0.90	----	----	----	----
PW-2	08/25/98	Geomatrix	<300	----	<0.50	<0.50	<0.50	<0.50	6.8	<0.50	----	----	----	----
PW-2	11/16/98	Alton Geoscience	<300	----	16	18	2.0	11	35	58	----	----	----	----
PW-2	02/03/99	Alton Geoscience	<500	<500	<0.50	<0.50	<0.50	<1	79	2.4	----	----	----	----
PW-2	05/06/99	Alton Geoscience	<500	<500	<0.50	<0.50	<0.50	<0.50	3.4	<0.50	----	----	----	----
PW-2	08/10/99	Alton Geoscience	<500	<1,000	<0.50	<1	<1	<1	32	<1	----	----	----	----
PW-2	11/19/99	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	45	0.70	----	----	----	----
PW-2	02/29/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	58	<0.50	----	----	----	----
PW-2	05/16/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	50	0.80	----	----	----	----
PW-2	08/29/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	56	0.60	----	----	----	----
PW-2	11/29/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	35	0.60	----	----	----	----
PW-2	02/06/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	28	0.80	----	----	----	----
PW-2	05/08/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	14	<0.50	----	----	----	----
PW-2	09/19/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	24	<0.50	----	----	----	----
PW-2	11/06/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	23	<0.50	----	----	----	----
PW-2	01/30/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
PW-2	04/09/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	1.7	19	----	----	----	----
PW-2	10/24/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
PW-2	01/16/03	Geomatrix	<300	----	----	----	----	----	----	----	----	----	----	----
PW-2	04/08/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
PW-2	07/07/03	Geomatrix	----	----	<0.50	<1	<1	<1	<0.50	<1	----	----	----	----
PW-2	10/07/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	8.8	<0.50	----	----	----	----
PW-2	04/21/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	18	0.56	----	----	----	----
PW-2	07/08/04	Geomatrix	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
PW-2	11/03/04	Secor	83	----	<0.50	<0.50	<0.50	<0.50	52	1.5	----	----	----	----
PW-2	05/06/05	Secor	110	----	<0.50	<0.50	<0.50	<0.50	70	6.2	----	----	----	----
PW-2	11/03/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
PW-2	05/04/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
PW-2	12/06/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	6.8	<0.50	----	----	----	----
PW-2	05/02/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	0.57	<0.50	----	----	----	----
PW-2	11/13/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
PW-2	04/17/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
PW-3	11/25/96	Terra Services	----	----	<0.50	<0.50	<0.50	<1.5	110	<5	----	----	----	----
PW-3	07/14/97	Terra Services	140	<500	5.9	2.4	2.9	8.4	67	<5	----	----	----	----
PW-3	01/08/98	Terra Services	<100	<500	1.2	1.1	<0.50	<1.5	46	<5	----	----	----	----
PW-3	05/22/98	Terra Services	<300	----	<0.50	<0.50	<0.50	<1	48	1.6	----	----	----	----
PW-3	08/25/98	Geomatrix	<300	----	<0.50	<0.50	<0.50	<0.50	35	<0.50	----	----	----	----
PW-3	11/16/98	Alton Geoscience	<300	----	<0.50	4.5	0.60	3.6	21	<0.50	----	----	----	----
PW-3	02/03/99	Alton Geoscience	<500	<500	<0.50	<0.50	<0.50	<1	25	<0.50	----	----	----	----
PW-3	05/06/99	Alton Geoscience	<500	<500	<0.50	<0.50	<0.50	<0.50	21	<0.50	----	----	----	----
PW-3	08/10/99	Alton Geoscience	<500	<1,000	<0.50	<1	<1	<1	13	<1	----	----	----	----
PW-3	11/28/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	3.5	<0.50	----	----	----	----
PW-3	05/08/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	4.4	<0.50	----	----	----	----
PW-3	09/19/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	2.7	<0.50	----	----	----	----
PW-3	11/06/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	4.8	<0.50	----	----	----	----
PW-3	01/30/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
PW-3	04/09/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	3.0	<0.50	----	----	----	----
PW-3	10/24/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
PW-3	01/16/03	Geomatrix	<300	----	----	----	----	----	----	----	----	----	----	----
PW-3	04/08/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	0.73	<0.50	----	----	----	----
PW-3	07/07/03	Geomatrix	----	----	<0.50	<1	<1	<1	<0.50	<1	----	----	----	----

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
PW-3	10/07/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	2.6	<0.50	----	----	----	----
PW-3	04/21/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
PW-3	07/13/04	Geomatrix	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
PW-3	11/03/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
PW-3	05/06/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	0.53	<0.50	----	----	----	----
PW-3	11/03/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
PW-3	05/03/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
PW-3	12/06/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	1.1	<0.50	----	----	----	----
PW-3	05/02/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
PW-3	11/15/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
PW-3	04/17/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
PW-3	10/17/08	Stantec	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
PW-3	04/20/09	Blaine Tech for AMEC	<50	----	<0.50	<0.50	<0.50	<0.50	0.64	<0.50	<10	<1	<1	<1
PW-3	10/21/09	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	0.86	<0.50	<10	<1	<1	<1
PW-3	05/26/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	1.3	<0.50	<10	<1	<1	<1
PW-3	10/06/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
PW-3	04/12/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	1.4	<0.50	<10	1.0	<1	<1
PW-3	10/11/11	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
PW-3	04/18/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
PW-3	10/17/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
PW-3	04/10/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
PW-3	10/09/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
PW-3	04/15/14	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
PW-3	10/29/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
PW-3	04/22/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
PW-3	10/22/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
PW-3	04/13/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
PW-3	10/05/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
PW-3	04/21/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	0.67	<0.50	<10	<1.0	<1.0	<1.0
PW-3	10/03/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
PZ-1	11/27/96	Terra Services	----	----	79	16	140	49	15	610	----	----	----	----
PZ-1	07/16/97	Terra Services	220	<500	<0.50	<0.50	13	<1	3.0	480	----	----	----	----
PZ-1	01/06/98	Terra Services	<100	<500	<0.50	<0.50	<0.50	<1.5	1.3	17	----	----	----	----
PZ-1	05/26/98	Terra Services	400	----	<5	<5	<5	<10	<5	370	----	----	----	----
PZ-1	11/16/98	Alton Geoscience	516	----	110	67	8.0	38	7.2	320	----	----	----	----
PZ-1	05/06/99	Alton Geoscience	2,000	<500	500	<2	13	120	<5	230	----	----	----	----
PZ-1	11/17/99	Secor	<300	----	<2.5	<2.5	<2.5	<2.5	<2.5	210	----	----	----	----
PZ-1	05/17/00	Secor	350	----	51	<2.5	2.7	<2.5	<2.5	250	----	----	----	----
PZ-1	11/29/00	Secor	390	----	79	<2.5	<2.5	<2.5	<2.5	260	----	----	----	----
PZ-1	05/08/01	Secor	<300	----	15	<0.50	<0.50	<0.50	<0.50	330	----	----	----	----
PZ-1	11/06/01	Secor	550	----	8.4	<0.50	<0.50	0.70	1.4	470	----	----	----	----
PZ-1	04/09/02	Secor	<300	----	<2.5	<2.5	<2.5	<2.5	<2.5	270	----	----	----	----
PZ-2	04/11/13	CHHL	210	940	9.9	<1	13	<1	<2	<1	<20	<2	<2	<2
PZ-2	10/11/13	CHHL	400	580	9.0	<0.50	1.3	2.0	<1	<0.50	23	<1	<1	<1
PZ-2	04/17/14	CHHL	330	280	2.0	<0.50	<0.50	2.6	<1	0.60	25	<1	<1	<1
PZ-2	04/23/15	BT for CH2MHill	250	810	<1.0	<1.0	2.5	13	<2.0	<1.0	29	<2.0	<2.0	<2.0
PZ-2	10/27/15	BT for CH2MHill	210	460	1.2	<0.50	1.2	3.8	<0.50	0.56	42	<1.0	<1.0	<1.0
PZ-2	10/27/15	BT for CH2MHill	210	680	1.5	<0.50	1.2	3.6	<0.50	0.61	43	<1.0	<1.0	<1.0
PZ-2	04/13/16	BT for CH2MHill	2,300	1,300	110	20	120	390	<2	1.3	<20	<2.0	<2.0	<2.0
DUP-2 (PZ 2)	04/13/16	BT for CH2MHill	2,300	890	120	21	130	390	<2	1.3	<20	<2.0	<2.0	<2.0
PZ-2	10/06/16	BT for CH2MHill	410	550	3.5	0.84	8.2	22	<0.50	1.7	23	<1.0	<1.0	<1.0
DUP-6 (PZ-2)	10/06/16	BT for CH2MHill	370	700	3.1	0.80	7.0	20	<0.50	1.6	21	<1.0	<1.0	<1.0

APPENDIX E
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 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
PZ-2	04/20/17	BT for CH2MHill	<50	94	<0.50	<0.50	<0.50	<0.50	<0.50	0.88	<10	<1.0	<1.0	<1.0
DUP-6 (PZ-2)	04/20/17	BT for CH2MHill	<50	81	<0.50	<0.50	<0.50	<0.50	<0.50	0.80	<10	<1.0	<1.0	<1.0
PZ-2	10/05/17	BT for CH2MHill	120	440	<0.50	<0.50	<0.50	2.6	<0.50	1.1	<10	<1.0	<1.0	<1.0
DUP-6 (PZ-2)	10/05/17	BT for CH2MHill	330	500	<0.50	<0.50	<0.50	4.1	<0.50	1.0	<10	<1.0	<1.0	<1.0
PZ-3	04/22/04	BT for Parsons	-----	-----	6,300	<1500	4,100	24,000	-----	<25000	-----	-----	-----	-----
PZ-3	04/22/09	BT for Parsons	-----	-----	<2.5	<2.5	<2.5	<2.5	<2.5	<50	<10	<1.0	<1.0	<1.0
PZ-3	04/15/10	BT for Parsons	-----	-----	2.2	<0.50	<0.50	<0.50	<0.50	0.74	<10	<2	<2	<2
PZ-3	10/08/10	BT for Parsons	-----	-----	0.60	-----	-----	-----	<0.50	0.69	<10	-----	-----	-----
PZ-3	04/14/11	BT for Parsons	-----	-----	1.3	<0.50	<0.50	<0.50	<0.50	0.71	<10	<2	<2	<2
PZ-3	10/14/11	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
PZ-3	04/19/12	Parsons	-----	-----	0.68	<0.50	<0.50	0.26 J	<0.50	0.52	6.6 J	<2	<2	<2
PZ-3	10/19/12	Parsons	-----	-----	280	<0.50	150	362	<0.50	<0.50	<10	<2	<2	<2
PZ-3	10/09/13	Parsons	2,100	10,000 HD	53	0.25 J	44	95	<0.50	1.6	<10	<2	<2	<2
PZ-3	04/18/14	Parsons	5,300 HD	6,900 HD	420	<0.50	7.4	1.9	<0.50	1.2	18	<2	<2	<2
PZ-3	11/03/14	SGI	1,300	2,700	52	<0.50	1.4	<1.5	<0.50	3.7	12	<2.0	<2.0	<2.0
PZ-3	04/22/15	SGI	3,000	3,600	59	<0.50	1.2	<1.0	<0.50	2.8	<10	<2.0	<2.0	<2.0
PZ-3	10/10/17	SGI	710	1,500	28	<1.0	<1.0	<3.0	<1.0	<2.0	<20	<4.0	<4.0	<4.0
PZ-5	10/07/03	Secor	6,900	-----	11	<10	<10	<10	<20	9,100	-----	-----	-----	-----
PZ-5	05/05/05	Secor	<50	-----	0.87	<0.50	<0.50	<0.50	<0.50	43	-----	-----	-----	-----
PZ-5	11/02/05	Secor	1,200	-----	<2.5	<2.5	<2.5	<2.5	<5	2,100	-----	-----	-----	-----
PZ-5	02/28/06	Secor	160	-----	<0.50	<0.50	<0.50	<1	<1	380	-----	-----	-----	-----
PZ-5	05/04/06	Secor	1,200	-----	<2	<2	<2	<2	<4	1,900	-----	-----	-----	-----
PZ-5	09/19/06	Secor	480	-----	<1	<1	<1	<1	<2	1,200	-----	-----	-----	-----
PZ-5	12/07/06	Secor	480	-----	<1.5	<1.5	<1.5	<1.5	<3	960	-----	-----	-----	-----
PZ-5	03/13/07	Secor	320	-----	<1	<1	<1	<1	<2	690	-----	-----	-----	-----
PZ-5	05/04/07	Secor	400	-----	<0.50	<0.50	<0.50	<0.50	<1	610	-----	-----	-----	-----
PZ-5	08/29/07	Secor	380	-----	<1	<1	<1	<1	<2	480	-----	-----	-----	-----
PZ-5	11/15/07	Secor	370	-----	<0.50	<0.50	<0.50	<0.50	<1	470	-----	-----	-----	-----
PZ-5	02/20/08	Secor	940	-----	<1	<1	<1	<1	<2	750	-----	-----	-----	-----
PZ-5	04/15/08	Secor	750	-----	<1	<1	<1	<1	<2	740	-----	-----	-----	-----
PZ-5	08/12/08	Secor	1,500	-----	<2	<2	<2	<2	<4	2,000	-----	-----	-----	-----
PZ-5	10/16/08	Stantec	<3,000	-----	22	<15	<15	<15	<30	1,900	-----	-----	-----	-----
PZ-5	02/24/09	Blaine Tech	1,000	-----	61	<1	<1	<1	<2	1,200	37,000	-----	-----	-----
PZ-5	02/24/09	Blaine Tech	1,200	-----	250	<2	5.7	<2	<4	1,200	35,000	<4	<4	<4
PZ-5	04/23/09	Blaine Tech for AMEC	1,200	-----	250	<2	5.7	<2	<4	1,200	35,000	<4	<4	<4
PZ-5	07/22/09	Blaine Tech	3,800	-----	2,000	20	98	77	<5	800	54,000	<5	<5	<5
PZ-5	10/23/09	Blaine Tech	2,900	-----	1,100	18	53	69	<10	500	50,000	<10	<10	<10
PZ-5	03/16/10	Blaine Tech	1,700	-----	370	2.1	33	9.4	<4	350	58,000	<4	<4	<4
PZ-5	04/16/10	Blaine Tech	1,600	-----	110	<2.5	9.7	4.6	<5	340	91,000	<5	<5	<5
PZ-5	05/27/10	Blaine Tech	3,200,000 J	-----	1,100	<25	66	<25	<50	360	69,000	<50	<50	<50
PZ-5	07/14/10	Blaine Tech	4,600	-----	1,900	<10	180	<10	<20	530	82,000	<20	<20	<20
PZ-5	08/12/10	Blaine Tech	9,100	-----	4,400	<5	340	42	<10	490	64,000	<10	<10	<10
PZ-5	09/20/10	Blaine Tech	8,500	-----	4,200	2.8	110	12	<4	370	43,000	<4	<4	<4
PZ-5	10/07/10	Blaine Tech	6,300	-----	3,100	<20	56	<20	<40	150	40,000	<40	<40	<40
PZ-5	11/16/10	Blaine Tech	3,400	-----	1,600	<10	10	15	<20	130	20,000	<20	<20	<20
PZ-5	12/22/10	Blaine Tech	3,400	-----	1,600	<10	<10	<10	<20	100	22,000	<20	<20	<20
PZ-5	01/12/11	Blaine Tech	<4,000	-----	1,500	<5	<5	<5	<10	130	38,000	<10	<10	<10
PZ-5	02/24/11	Blaine Tech	1,400	-----	390	<2	<2	3.8	<4	84	27,000	<4	<4	<4
PZ-5	03/23/11	Blaine Tech	1,100	-----	210	<1	<1	2.4	<2	140	29,000	<2	<2	<2
PZ-5	04/13/11	Blaine Tech	830	-----	59	<1	<1	<1	<2	120	28,000	<2	<2	<2
PZ-5	05/13/11	Blaine Tech	2,000	-----	710	4.7	25	26	<5	140	34,000	<5	<5	<5
PZ-5	06/22/11	Blaine Tech	4,500	-----	960	9.0	30	80	<10	100	33,000	<10	<10	<10

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
PZ-5	07/12/11	CH2M Hill	3,300	-----	1,500	16	50	77	<20	110	34,000	<20	<20	<20
PZ-5	08/19/11	CH2M Hill	2,600	-----	750	9.0	63	45	<10	150	47,000	<10	<10	<10
PZ-5	09/22/11	CH2M Hill	4,700	-----	1,600	33	100	200	<20	200	64,000	<20	<20	<20
PZ-5	10/14/11	CH2M Hill	4,600	-----	1,500	31	130	190	<10	170	58,000	<10	<10	<10
PZ-5	11/28/11	CH2M Hill	4,600	-----	1,700	18	150	140	<20	220	61,000	<20	<20	<20
PZ-5	12/21/11	CH2M Hill	5,900	-----	2,200	57	160	390	<20	190	61,000	<20	<20	<20
PZ-5	01/10/12	CH2M Hill	5,400	-----	2,000	44	140	330	<20	200	38,000	<20	<20	<20
PZ-5	02/23/12	CH2M HILL	8,400	-----	3,300	86	280	760	<40	370	29,000	<40	<40	<40
PZ-5	03/28/12	CH2M HILL	4,100	-----	1,800	20	100	170	<20	150	29,000	<20	<20	<20
PZ-5	04/19/12	CH2M Hill	2,900	260	1,300	<10	97	20	<20	140	58,000	<20	<20	<20
PZ-5	05/25/12	CH2M HILL	7,500	340	3,700	42	210	250	<30	240	68,000	<30	<30	<30
PZ-5	06/15/12	CH2M HILL	8400 J	440	4,500	60	190	320	<100	500	75,000	<100	<100	<100
PZ-5	07/10/12	CHHL	7,600	360	3,400	31	150	200	<20	700	66,000	<20	<20	<20
PZ-5	08/29/12	CHHL	4,500	900	2,300	17	110	66	<20	1,000	140,000	<20	<20	<20
PZ-5	09/26/12	CHHL	6,200	390	2,000	25	160	110	<20	1,500	67,000	<20	<20	<20
PZ-5	10/18/12	CHHL	9,900	520	3,300	55	200	180	<80	5,600	83,000	<80	<80	<80
PZ-5	11/29/12	CHHL	8,300	420	3,000	35	200	69	<40	3,200	97,000	<40	<40	<40
PZ-5	12/26/12	CHHL	5,200	480	2,600	18	160	55	<5	3,300	130,000	<5	<5	<5
PZ-5	01/15/13	CHHL	9,400	1,400	3,900	41	200	100	<50	4,800	100,000	<50	<50	<50
PZ-5	02/20/13	CHHL	12,000	1,400	5,400	67	310	310	<100	8,600	110,000	<100	<100	<100
PZ-5	04/11/13	CHHL	10,000	2,300	4,100	37	300	140	<40	4,800	83,000	<40	<40	<40
PZ-5	10/11/13	CHHL	49,000	6,200	11,000	<100	590	250	<200	32,000	210,000	<200	<200	<200
PZ-5	04/16/14	CHHL	250,000	3,700	70,000	<200	5,800	200	<400	150,000	2,800,000	<400	<400	<400
PZ-5	10/30/14	BT for CH2MHill	16,000	6,500	5,600	<50	410	<0.50	<100	440	110,000	<100	<100	<100
PZ-5	10/30/14	BT for CH2MHill	16,000	4,000	5,600	<50	420	<0.50	<100	440	110,000	<100	<100	<100
PZ-5	04/23/15	BT for CH2MHill	3,100	2,100	1,100	<5.0	120	18	<10	150	64,000	<10	<10	<10
PZ-5	04/23/15	BT for CH2MHill	2,700	2,100	940	<2.5	99	23	<5.0	140	63,000	<5.0	<5.0	<5.0
PZ-5	10/26/15	BT for CH2MHill	1,200	1,100	<1.0	<1.0	<1.0	<1.0	<2.0	29	46,000	<2.0	<2.0	<2.0
PZ-5	10/26/15	BT for CH2MHill	1,200	1,000	<1.0	<1.0	<1.0	<1.0	<2.0	31	39,000	<2.0	<2.0	<2.0
PZ 5	04/14/16	BT for CH2MHill	860	400	<0.50	<0.50	<0.50	<0.50	<0.50	7.6	72,000	<1.0	<1.0	<1.0
DUP-3 (PZ 5)	04/14/16	BT for CH2MHill	810	830	<0.50	<0.50	<0.50	<0.50	<0.50	7.6	66,000	<1.0	<1.0	<1.0
PZ-5	10/06/16	BT for CH2MHill	1,200	970	<1.0	<1.0	<1.0	1.4	<2.0	7.2	110,000	<2.0	2.7	<2.0
DUP-5 (PZ-5)	10/06/16	BT for CH2MHill	950	1,100	<1.0	<1.0	<1.0	0.86	<2.0	6.5	130,000	<2.0	2.5	<2.0
PZ-5	04/21/17	BT for CH2MHill	16,000	840	5,800	450	910	1,900	<40	770	47,000	<40	<40	44
PZ-5	10/05/17	BT for CH2MHill	910	270	1.7	<1.0	20	1.6	<2.0	23	30,000	<2.0	<2.0	<2.0
DUP-5 (PZ-5)	10/05/17	BT for CH2MHill	760	270	1.7	<1.0	19	1.9	<2.0	21	25,000	<2.0	<2.0	<2.0
PZ-6	11/30/00	Secor	<300	-----	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
PZ-6	05/08/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
PZ-6	07/08/03	Geomatrix	-----	-----	<0.50	<1	<1	<1	<0.50	<1	-----	-----	-----	-----
PZ-6	04/27/04	Geomatrix	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
PZ-6	07/08/04	Geomatrix	<50	-----	<0.50	<0.50	<0.50	<0.50	0.50	<0.50	-----	-----	-----	-----
PZ-7A	06/13/03	Secor	340	-----	<0.50	<0.50	<0.50	<0.50	<1	660	-----	-----	-----	-----
PZ-7A	09/24/03	Secor	160	-----	<0.50	<0.50	<0.50	<0.50	<0.50	390	-----	-----	-----	-----
PZ-7A	10/10/03	Geomatrix	240	-----	<0.50	<0.50	<0.50	<0.50	<0.50	340	-----	-----	-----	-----
PZ-7A	08/02/05	Secor	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	4.8	-----	-----	-----	-----
PZ-7B	06/13/03	Secor	98	-----	<0.50	<0.50	<0.50	<0.50	0.51	51	-----	-----	-----	-----
PZ-7B	09/24/03	Secor	61	-----	<0.50	<0.50	<0.50	<0.50	<0.50	67	-----	-----	-----	-----
PZ-7B	10/10/03	Geomatrix	90	-----	<0.50	<0.50	<0.50	<0.50	<0.50	2.3	-----	-----	-----	-----
PZ-7B	08/02/05	Secor	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
PZ-8A	06/13/03	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	12	-----	-----	-----	-----
PZ-8A	09/24/03	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	1.7	-----	-----	-----	-----
PZ-8A	10/10/03	Geomatrix	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	2.8	-----	-----	-----	-----

APPENDIX E
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 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
PZ-8A	08/02/05	Secor	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
PZ-8A	12/06/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
PZ-8B	06/13/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	31	----	----	----	----
PZ-8B	09/24/03	Secor	86	----	<0.50	<0.50	<0.50	<0.50	<0.50	180	----	----	----	----
PZ-8B	10/10/03	Geomatrix	310	----	<0.50	<0.50	<0.50	<0.50	<1	440	----	----	----	----
PZ-8B	08/02/05	Secor	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
PZ-8B	12/06/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
PZ-9A	06/13/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
PZ-9A	09/24/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
PZ-9A	10/10/03	Geomatrix	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
PZ-9A	08/02/05	Secor	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
PZ-9B	06/13/03	Secor	75	----	<0.50	<0.50	<0.50	<0.50	<0.50	50	----	----	----	----
PZ-9B	09/24/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	7.9	----	----	----	----
PZ-9B	10/10/03	Geomatrix	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	3.9	----	----	----	----
PZ-9B	08/02/05	Secor	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	----	----	----	----
PZ-10	08/01/03	Secor	6,300	----	710	130	150	890	<10	47	----	----	----	----
PZ-10	10/07/03	Secor	6,200	----	1,000	21	230	600	<10	55	----	----	----	----
PZ-10	01/27/04	Secor	3,100	----	560	5.4	63	201	<5	28	----	----	----	----
PZ-10	04/22/04	Secor	11,000	----	2,100	29	470	1,490	<20	110	----	----	----	----
PZ-10	07/19/04	Secor	4,800	----	890	<5	210	278	<10	45	----	----	----	----
PZ-10	11/03/04	Secor	4,600	----	920	9.1	280	580	<10	50	----	----	----	----
PZ-10	02/03/05	Secor	1,000	----	250	1.4	34	108	<2	42	----	----	----	----
PZ-10	05/04/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
PZ-10	08/01/05	Secor	<50	----	0.71	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
PZ-10	11/02/05	Secor	<100	----	<0.50	<0.50	<0.50	<0.50	<1	<0.50	----	----	----	----
PZ-10	02/27/06	Secor	<200	----	<1	<1	<1	<1	<2	6.1	----	----	----	----
PZ-10	05/09/06	Secor	<1000	----	5.1	<5	<5	<5	<10	36	----	----	----	----
PZ-10	09/20/06	Secor	<200	----	<1	<1	<1	<1	<2	3.6	----	----	----	----
PZ-10	12/06/06	Secor	<500	----	<2.5	<2.5	<2.5	<2.5	<5	5.5	----	----	----	----
PZ-10	03/13/07	Secor	<500	----	<2.5	<2.5	<2.5	<2.5	<5	<2.5	----	----	----	----
PZ-10	05/03/07	Secor	<1000	----	6.1	<5	<5	<5	<10	<5	----	----	----	----
PZ-10	08/30/07	Secor	<200	----	<1	<1	<1	<1	<2	<1	----	----	----	----
PZ-10	11/14/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
PZ-10	02/21/08	Secor	<200	----	65	<1	3.1	9.4	<2	<1	----	----	----	----
PZ-10	04/16/08	Secor	950	----	360	5.0	20	85	<5	11	----	----	----	----
PZ-10	10/16/08	Stantec	<200	----	18	<1	<1	<1	<2	1.7	----	----	----	----
PZ-10	04/20/09	Blaine Tech for AMEC	560	----	26	<1	3.2	<1	<2	12	38	5.2	<2	<2
PZ-10	07/21/09	Blaine Tech	<200	----	1.4	<1	<1	<1	<2	9.6	55	3.1	<2	<2
PZ-10	10/22/09	Blaine Tech	<200	----	<1	<1	<1	<1	<2	4.4	30	<2	<2	<2
PZ-10	05/27/10	Blaine Tech	<100	----	0.92	<0.50	<0.50	<0.50	<1	1.4	<10	<1	<1	<1
PZ-10	10/07/10	Blaine Tech	<100	----	<0.50	<0.50	<0.50	<0.50	<1	<0.50	<10	<1	<1	<1
PZ-10	04/13/11	Blaine Tech	<200	----	2.8	<1	<1	<1	<2	<1	<20	2.2	<2	<2
PZ-10	04/19/12	CH2M Hill	<200	570	4.9	<1	<1	<1	<2	<1	39	3.4	<2	<2
PZ-10	10/17/12	CHHL	<500	970	32	<2.5	<2.5	<2.5	<5	<2.5	<50	6.4	<5	<5
PZ-10	10/26/15	BT for CH2MHill	340	1,200 HD	<1.5	<1.5	<1.5	6.2	<3.0	<1.5	140	<3.0	<3.0	<3.0
PZ 10	04/14/16	BT for CH2MHill	<200	240	<1	<1	<1	<1	<2	<1	<20	<2.0	<2.0	<2.0
RTF-18-N	04/24/17	SGI	25,000	5,200	1,700	6.7	800	2,500	<5	<10	<100	<20	<20	<20
RTF-18-NNW	04/24/17	SGI	30,000	6,900	5,000	16	1,500	5,200	<5	<10	<100	<20	<20	<20
TF-8	09/18/03	BT for Parsons	----	----	1.2	<0.50	0.77	2.7	<0.50	24	----	----	----	----
TF-8	02/21/04	BT for Parsons	----	----	3.2	<0.50	<0.50	1.4	----	46	----	----	----	----
TF-8	10/10/13	Parsons	<100	490 HD	<0.50	<0.50	<0.50	<0.50	<0.50	0.53	<10	<2	<2	<2
TF-8	04/18/14	Parsons	140 HD	450 HD	<0.50	<0.50	<0.50	<0.50	<0.50	0.71	<10	<2	<2	<2

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 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
TF-8	10/29/14	SGL	<100	1,000	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
TF-8	04/29/15	SGL	<100	1,100	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<10	<2.0	<2.0	<2.0
TF-8	10/23/15	SGL	<100	830	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
TF-8	10/23/15	SGL	<100	930	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
TF 8	04/12/16	SGL	<100	1,000	0.52	<0.50	1.2	4.1	<0.50	1.7	<10	<2.0	<2.0	<2.0
DUP-3 (TF 8)	04/12/16	SGL	<100	640	<0.50	<0.50	1.2	3.9	<0.50	1.3	<10	<2.0	<2.0	<2.0
TF-8	10/10/16	SGL	<100	770	<0.50	<0.50	<0.50	<1.5	<0.50	1.2	<10	<2.0	<2.0	<2.0
DUP-7 (TF-8)	10/10/16	SGL	<100	800	<0.50	<0.50	<0.50	<1.5	<0.50	1.3	<10	<2.0	<2.0	<2.0
TF-8	04/20/17	SGL	<100	100	<0.50	<0.50	<0.50	<1	<0.50	<1.0	<10	<2.0	<2.0	<2.0
TF-8	10/05/17	SGL	<100	640	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
TF-9	10/10/13	Parsons	960 HD	2,200 HD	2.1	0.27 J	0.80	0.30	<0.50	<0.50	32	<2	<2	<2
TF-9	04/18/14	Parsons	3,400 HD	2,900 HD	3.6	0.27 J	3.1	8.1	<0.50	<0.50	25	<2	<2	<2
TF-9	10/31/14	SGL	1,100	1,300	6.0	<0.50	0.84	0.69	<0.50	<2.0	22	<2.0	<2.0	<2.0
TF-9R	10/05/17	SGL	1,500	1,500	36	<0.50	6.5	0.51	<0.50	<1.0	<10	<2.0	<2.0	<2.0
DUPE-6 (TF-9R)	10/05/17	SGL	1,500	1,700	34	<1.0	5.9	<3.0	<1.0	<2.0	<20	<4.0	<4.0	<4.0
TF-14	09/18/03	BT for Parsons	-----	-----	210	<2.5	62	89	<2.5	<2.5	-----	-----	-----	-----
TF-14	02/21/04	BT for Parsons	-----	-----	370	<1	130	126	-----	1.2	-----	-----	-----	-----
TF-16	04/14/03	GTI	-----	-----	24	5.0	15	17	-----	9.5	-----	-----	-----	-----
TF-16	09/18/03	BT for Parsons	-----	-----	280	8.3	24	211	<0.50	9.1	-----	-----	-----	-----
TF-16	10/11/03	BT for Parsons	-----	-----	150	7.0	27	91	-----	<25	-----	-----	-----	-----
TF-16	02/21/04	BT for Parsons	-----	-----	120	2.4	23	89	-----	5.6	-----	-----	-----	-----
TF-16	04/21/04	BT for Parsons	-----	-----	200	30	40	320	-----	4.6	-----	-----	-----	-----
TF-16	11/04/04	BT for Parsons	-----	-----	180	4.0	20	320	-----	<10	-----	-----	-----	-----
TF-16	05/06/05	BT for Parsons	-----	-----	43	10	4.6	73	-----	<25	-----	-----	-----	-----
TF-16	11/08/05	BT for Parsons	-----	-----	25	0.86	3.4	20	-----	8.5	-----	-----	-----	-----
TF-16	05/04/06	BT for Parsons	-----	-----	52	0.89	10	49	-----	<5	-----	-----	-----	-----
TF-16	12/08/06	BT for Parsons	-----	-----	28	<0.50	1.5	3.0	-----	<5	-----	-----	-----	-----
TF-16	05/04/07	BT for Parsons	-----	-----	520	<2.5	5.4	10	-----	<25	-----	-----	-----	-----
TF-16	11/15/07	BT for Parsons	-----	-----	450	<0.50	<0.50	<1	-----	9.3	-----	-----	-----	-----
TF-16	04/17/08	BT for Parsons	-----	-----	570	1.3	3.2	4.1	-----	<10	-----	-----	-----	-----
TF-16	10/16/08	BT for Parsons	-----	-----	330	<2.5	<2.5	<2.5	<2.5	6.3	<50	<10	<10	<10
TF-16	04/24/09	BT for Parsons	-----	-----	24	<0.50	<0.50	<0.50	<0.50	4.1	11	<2	<2	<2
TF-16	10/26/09	BT for Parsons	-----	-----	7.6	<0.50	0.34 J	<0.50	<0.50	3.9	11	<2	<2	0.35 J
TF-16	04/15/10	BT for Parsons	-----	-----	10	<0.50	0.38 J	<0.50	-----	3.5	8.2 J	<2	<2	0.42 J
TF-16	04/15/11	BT for Parsons	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TF-16	04/22/11	BT for Parsons	-----	-----	40	<0.50	1.1	0.80	<0.50	3.4	11	<2	<2	0.39 J
TF-16	04/19/12	Parsons	2,100	-----	10	<0.50	0.83	0.67 J	<0.50	3.4	17	<2	<2	0.67 J
TF-16	04/11/13	Parsons	1,200 b	2,500 b	180	<0.50	1.5	1.08 J	<0.50	4.8	6 J	<2	<2	<2
TF-16	10/08/13	Parsons	860 HD	2,300 HD	170	<0.50	1.1	0.58	<0.50	4.2	8.5 J	<2	<2	0.64 J
TF-16	04/17/14	Parsons	6,000 HD	7,600 HD	740	3.0	31	110	<0.50	4.6	8.2 J	<2	<2	0.98 J
TF-17	10/09/13	Parsons	18,000 HD	32,000 HD	33	<2.5	<2.5	<2.5	<2.5	<2.5	<50	<10	<10	<10
TF-17	04/17/14	Parsons	8,900 HD	14,000 HD	13	<2.5	<2.5	<2.5	<2.5	2.7	<50	<10	<10	<10
TF-17	11/03/14	SGL	2,900	7,100	68	2.3	48	228	<0.50	2.8	<10	<2.0	<2.0	<2.0
TF-18	04/24/17	SGL	54,000	7,300	320	<5	340	530	<5.0	<10	<100	<20	<20	<20
TF-20R	10/10/17	SGL	1,300	660	490	<5.0	<5.0	<15	<5.0	<10	<100	<20	<20	<20
TF-21	04/10/03	GTI	-----	-----	267	1.6	8.1	9.8	-----	<3	-----	-----	-----	-----
TF-21	09/18/03	BT for Parsons	-----	-----	560	<5	5.6	<5	<5	<5	-----	-----	-----	-----
TF-21	10/08/03	BT for Parsons	-----	-----	390	<0.60	4.2	<0.60	-----	<10	-----	-----	-----	-----
TF-21	02/21/04	BT for Parsons	-----	-----	820	<2.5	<2.5	<2.5	-----	3.6	-----	-----	-----	-----
TF-21	04/21/04	BT for Parsons	-----	-----	550	<1	1.6	<1	-----	2.7	-----	-----	-----	-----
TF-21	11/04/04	BT for Parsons	-----	-----	10	<0.30	<0.30	1.2	-----	<5	-----	-----	-----	-----
TF-21	05/05/05	BT for Parsons	-----	-----	190	13	45	310	-----	<100	-----	-----	-----	-----

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
TF-21	11/05/05	BT for Parsons	-----	-----	140	0.61	3.7	39	-----	6.1	-----	-----	-----	-----
TF-21	05/03/06	BT for Parsons	-----	-----	140	4.3	3.9	10	-----	5.1	-----	-----	-----	-----
TF-21	12/06/06	BT for Parsons	-----	-----	44	<0.50	<0.50	5.0	-----	<5	-----	-----	-----	-----
TF-21	05/04/07	BT for Parsons	-----	-----	80	0.93	0.86	2.2	-----	7.2	-----	-----	-----	-----
TF-21	11/16/07	BT for Parsons	-----	-----	170	<0.50	<0.50	<1	-----	<5	-----	-----	-----	-----
TF-21	04/17/08	BT for Parsons	-----	-----	190	<0.50	4.4	2.4	-----	<5	-----	-----	-----	-----
TF-21	10/15/08	BT for Parsons	-----	-----	37	<0.50	<0.50	<0.50	<0.50	1.0	23	<2	<2	<2
TF-21	04/24/09	BT for Parsons	-----	-----	40	<0.50	<0.50	<0.50	<0.50	<0.50	18	<2	<2	<2
TF-21	10/26/09	BT for Parsons	-----	-----	50	<0.50	0.46 J	<0.50	<0.50	0.74	19	<2	<2	<2
TF-21	04/16/10	BT for Parsons	-----	-----	120	0.37 J	1.1	1.2	---	<0.50	15	<2	<2	<2
TF-21	04/15/11	BT for Parsons	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TF-21	04/22/11	BT for Parsons	-----	-----	160	<0.50	1.4	3.1	<0.50	0.71	20	<2	<2	<2
TF-21	04/20/12	Parsons	1,600	-----	280	0.27 J	1.7	0.88 J	<0.50	0.99	24	<2	<2	<2
TF-21	04/12/13	Parsons	590 b	2,700	130	<0.50	0.50	0.24 J	<0.50	4.1	13	<2	<2	<2
TF-21	10/08/13	Parsons	810 HD	2,200 HD	320	<0.50	0.59	0.24	<0.50	7.2	17	<2	<2	<2
TF-21	04/17/14	Parsons	1,100 HD	2,000 HD	190	0.26 J	0.83	0.48	<0.50	16	20	<2	<2	<2
TF-21	10/30/14	SGI	1,500	1,700	120	<0.50	1.2	0.54	<0.50	2.2	<10	<2.0	<2.0	<2.0
TF-21	04/29/15	SGI	570	1,700	16	<1.0	<1.0	<2.0	<1.0	<4.0	<20	<4.0	<4.0	<4.0
TF-21	10/11/16	SGI	1,300	7,800	8.5	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
TF-21	04/21/17	SGI	420	1,400	10	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
TF-21	10/09/17	SGI	350	1,700	4.3	<0.50	<0.50	<1.5	<0.50	<1.0	18	<2.0	<2.0	<2.0
TF-23	04/24/17	SGI	410	2,900	2.2	0.62	0.90	2.4	<0.50	1.5	94	<2.0	<2.0	<2.0
TF-24	10/10/13	Parsons	<100	1,500 HD	<0.50	<0.50	<0.50	<0.50	<0.50	0.4 J	<10	<2	<2	<2
TF-24	04/18/14	Parsons	<100	730 HD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
TF-24	10/29/14	SGI	<100	1,900	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
TF-24	04/29/15	SGI	<100	1,900	<0.50	<0.50	<0.50	<1.5	<0.50	<2.0	<10	<2.0	<2.0	<2.0
TF-24	10/11/16	SGI	<100	1,100	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
TF-24	04/21/17	SGI	<100	1,700	<0.50	<0.50	<0.50	<1.5	<0.50	<1	<10	<2.0	<2.0	<2.0
TF-24	10/05/17	SGI	<100	2,500	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<10	<2.0	<2.0	<2.0
WCW-1	11/25/96	GSI	<50	<500	<0.50	<0.50	<0.50	<1.5	0.60	<5	-----	-----	-----	-----
WCW-1	07/15/97	Terra Services	<100	<500	<0.50	<0.50	<0.50	<1	<0.50	<5	-----	-----	-----	-----
WCW-1	01/05/98	GTI	<500	<100	<0.50	<0.50	<0.50	<1	<0.50	<0.50	-----	-----	-----	-----
WCW-1	05/23/98	Terra Services	<300	-----	<0.50	<0.50	<0.50	<1	<0.50	<0.50	-----	-----	-----	-----
WCW-1	08/25/98	Geomatrix	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-1	11/04/98	GTI	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-1	02/02/99	Alton Geoscience	<500	<500	<0.50	<0.50	<0.50	<1	<1	<0.50	-----	-----	-----	-----
WCW-1	05/06/99	Alton Geoscience	<500	<500	2.1	9.8	0.80	4.4	<1	<0.50	-----	-----	-----	-----
WCW-1	08/10/99	Alton Geoscience	<500	<1,000	<0.50	<1	<1	<1	<0.50	<1	-----	-----	-----	-----
WCW-1	11/18/99	IT Corporation	<300	-----	<0.50	<1	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-1	02/28/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-1	05/19/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-1	08/28/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	0.50	<0.50	-----	-----	-----	-----
WCW-1	11/30/00	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-1	02/05/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-1	05/10/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-1	09/18/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-1	11/08/01	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-1	01/30/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-1	04/11/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-1	10/24/02	GTI	<300	-----	<0.50	<1	<1	<1	<0.50	<1	-----	-----	-----	-----
WCW-1	10/11/03	Blaine Tech	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	1.5	-----	-----	-----	-----
WCW-1	05/06/05	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----

APPENDIX E
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 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g ($\mu\text{g/L}$)	TPH-d ($\mu\text{g/L}$)	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethyl- benzene ($\mu\text{g/L}$)	Xylenes ($\mu\text{g/L}$)	1,2-DCA ($\mu\text{g/L}$)	MTBE ($\mu\text{g/L}$)	TBA ($\mu\text{g/L}$)	DIPE ($\mu\text{g/L}$)	ETBE ($\mu\text{g/L}$)	TAME ($\mu\text{g/L}$)
WCW-1	05/03/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-1	11/13/07	Blaine Tech	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-1	04/18/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-1	04/21/09	Blaine Tech for AMEC	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-1	05/25/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-1	04/11/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-1	04/17/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-2	11/25/96	GSI	<50	<500	<0.50	<0.50	<0.50	<1.5	<1.7	<5	----	----	----	----
WCW-2	07/08/97	Terra Services	<100	<500	<0.50	3.5	1.4	7.4	0.57	<5	----	----	----	----
WCW-2	01/05/98	GTI	<500	<100	<0.50	<0.50	<0.50	<1	1.0	<0.50	----	----	----	----
WCW-2	05/19/98	Terra Services	<300	----	<0.50	<0.50	<0.50	<1	<0.50	<0.50	----	----	----	----
WCW-2	08/25/98	Geomatrix	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-2	11/04/98	GTI	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-2	02/02/99	Alton Geoscience	<500	<500	<0.50	<0.50	<0.50	<1	<1	<0.50	----	----	----	----
WCW-2	05/06/99	Alton Geoscience	<500	<500	<0.50	0.80	<0.50	<0.50	<1	<0.50	----	----	----	----
WCW-2	08/10/99	Alton Geoscience	<500	<1,000	<0.50	<1	<1	<1	<0.50	<1	----	----	----	----
WCW-2	11/17/99	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-2	02/28/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	2.0	<0.50	----	----	----	----
WCW-2	05/18/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-2	08/28/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	0.60	<0.50	----	----	----	----
WCW-2	11/30/00	IT Corporation	<300	----	0.60	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-2	02/05/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-2	05/09/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-2	09/18/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-2	11/08/01	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-2	01/30/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-2	04/09/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-2	10/24/02	GTI	<300	----	<0.50	<1	<1	<1	<0.50	<1	----	----	----	----
WCW-2	04/10/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-2	10/11/03	Blaine Tech	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-2	04/21/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-2	11/03/04	Blaine Tech	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-2	05/05/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-2	11/05/05	Blaine Tech	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-2	05/05/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-2	12/05/06	Blaine Tech	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-2	05/01/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-2	11/13/07	Blaine Tech	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-2	04/18/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-2	10/17/08	Blaine Tech	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-2	04/21/09	Blaine Tech for AMEC	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-2	10/26/09	Blaine Tech	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-2	05/24/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-2	10/07/10	Blaine Tech	<100	----	<0.50	----	----	----	<0.50	<0.50	<10	----	----	----
WCW-2	04/11/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-2	10/13/11	Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-2	04/17/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-2	10/18/12	Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-2	04/09/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-2	10/08/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-2	04/15/14	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-2	10/28/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0

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 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
WCW-2	04/22/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-2	10/21/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW 2	04/12/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-2	10/04/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-2	04/18/17	BT for CH2MHill	<50	230	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-2	10/03/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-3	11/25/96	GSI	120	<500	<0.70	<0.50	<0.50	<1.5	190	<5	----	----	----	----
WCW-3	07/15/97	Terra Services	100	<500	<0.50	<0.50	<0.50	<1	190	<5	----	----	----	----
WCW-3	01/05/98	GTI	<500	200	<0.50	<0.50	<0.50	<1	220	<0.50	----	----	----	----
WCW-3	05/23/98	Terra Services	<300	----	<0.50	<0.50	<0.50	<1	201	<0.50	----	----	----	----
WCW-3	08/26/98	Geomatrix	<300	----	<2.5	<2.5	<2.5	<2.5	200	<2.5	----	----	----	----
WCW-3	11/03/98	GTI	<300	----	<0.50	<0.50	<0.50	<0.50	190	<0.50	----	----	----	----
WCW-3	02/03/99	Alton Geoscience	<1000	<500	<1	<1	<1	<2	200	<1	----	----	----	----
WCW-3	05/06/99	Alton Geoscience	<500	<500	<0.50	1.3	<0.50	<0.50	<1	1.1	----	----	----	----
WCW-3	08/10/99	Alton Geoscience	<500	<1,000	<0.50	<1	<1	<1	130	1.8	----	----	----	----
WCW-3	11/17/99	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	100	3.3	----	----	----	----
WCW-3	02/28/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	100	<0.50	----	----	----	----
WCW-3	05/18/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	92	1.0	----	----	----	----
WCW-3	08/28/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	90	0.70	----	----	----	----
WCW-3	11/30/00	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	68	<0.50	----	----	----	----
WCW-3	02/05/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	81	<0.50	----	----	----	----
WCW-3	05/09/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	63	<0.50	----	----	----	----
WCW-3	09/19/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	69	<0.50	----	----	----	----
WCW-3	11/08/01	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	51	<0.50	----	----	----	----
WCW-3	01/30/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	34	<0.50	----	----	----	----
WCW-3	04/09/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	29	<0.50	----	----	----	----
WCW-3	07/30/02	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	47	0.55	----	----	----	----
WCW-3	10/24/02	GTI	<300	----	<0.50	<1	<1	<1	39	<1	----	----	----	----
WCW-3	01/28/03	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	44	<0.50	----	----	----	----
WCW-3	04/10/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	34	<0.50	----	----	----	----
WCW-3	07/30/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	23	<0.50	----	----	----	----
WCW-3	10/11/03	Blaine Tech	<100	----	<0.50	<0.50	<0.50	<0.50	22	<0.50	----	----	----	----
WCW-3	01/28/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	43	<0.50	----	----	----	----
WCW-3	05/10/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	33	<0.50	----	----	----	----
WCW-3	07/20/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	46	<0.50	----	----	----	----
WCW-3	11/03/04	Blaine Tech	<100	----	<0.50	<0.50	<0.50	<0.50	33	<0.50	<10	<2	<2	<2
WCW-3	02/03/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	39	<0.50	----	----	----	----
WCW-3	05/05/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	31	<0.50	----	----	----	----
WCW-3	08/02/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	26	<0.50	----	----	----	----
WCW-3	11/05/05	Blaine Tech	<100	----	<0.50	<0.50	<0.50	<0.50	19	<0.50	<10	<2	<2	<2
WCW-3	02/28/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	8.8	<0.50	----	----	----	----
WCW-3	05/05/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	10	<0.50	----	----	----	----
WCW-3	09/20/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	16	<0.50	----	----	----	----
WCW-3	12/05/06	Blaine Tech	<100	----	<0.50	<0.50	<0.50	<0.50	6.6	<0.50	<10	<2	<2	<2
WCW-3	03/13/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-3	05/01/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-3	08/28/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-3	11/13/07	Blaine Tech	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-3	02/21/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-3	04/18/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-3	08/13/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	3.6	<0.50	----	----	----	----
WCW-3	10/17/08	Blaine Tech	<100	----	<0.50	<0.50	<0.50	<0.50	1.3	<0.50	<10	<2	<2	<2

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
WCW-3	02/23/09	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	-----	-----	-----
WCW-3	04/21/09	Blaine Tech for AMEC	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-3	07/20/09	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	1.7	<0.50	<10	<1	<1	<1
WCW-3	10/26/09	Blaine Tech	<100	-----	<0.50	<0.50	<0.50	<0.50	4.0	<0.50	<10	0.44 J	<2	<2
WCW-3	03/15/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	3.5	<0.50	<10	<1	<1	<1
WCW-3	05/24/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	2.8	<0.50	<10	<1	<1	<1
WCW-3	07/12/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	4.4	<0.50	<10	<1	<1	<1
WCW-3	10/08/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	2.8	<0.50	<10	<1	<1	<1
WCW-3	01/11/11	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	3.3	<0.50	<10	<1	<1	<1
WCW-3	04/11/11	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	4.1	<0.50	<10	<1	<1	<1
WCW-3	07/12/11	CH2M Hill	<50	-----	<0.50	<0.50	<0.50	<0.50	4.5	<0.50	<10	<1	<1	<1
WCW-3	10/11/11	CH2M Hill	<50	-----	<0.50	<0.50	<0.50	<0.50	3.4	<0.50	<10	<1	<1	<1
WCW-3	01/09/12	CH2M Hill	<50	-----	<0.50	<0.50	<0.50	<0.50	2.3	<0.50	<10	<1	<1	<1
WCW-3	04/17/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	3.2	<0.50	<10	<1	<1	<1
WCW-3	07/09/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	2.2	<0.50	<10	<1	<1	<1
WCW-3	10/16/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	1.7	<0.50	<10	<1	<1	<1
WCW-3	01/14/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	1.2	<0.50	<10	<1	<1	<1
WCW-3	04/09/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	4.1	<0.50	<10	<1	<1	<1
WCW-3	10/09/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	1.1	<0.50	<10	<1	<1	<1
WCW-3	04/15/14	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	0.88	<0.50	<10	<1	<1	<1
WCW-3	10/28/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	0.84	<0.50	<10	<1.0	<1.0	<1.0
WCW-3	04/22/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-3	10/21/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-3	04/12/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-3	10/04/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	0.74	<0.50	<10	<1.0	<1.0	<1.0
WCW-3	04/18/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-3	10/03/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-4	11/22/96	GSI	<50	<500	<0.50	<0.50	<0.50	<1.5	<0.50	<5	-----	-----	-----	-----
WCW-4	07/08/97	Terra Services	<100	<500	0.50	0.78	<0.50	<1	<0.50	<5	-----	-----	-----	-----
WCW-4	01/05/98	GTI	<500	<100	<0.50	<0.50	<0.50	<1	<0.50	<0.50	-----	-----	-----	-----
WCW-4	05/19/98	Terra Services	<300	-----	<0.50	<0.50	<0.50	<1	<0.50	<0.50	-----	-----	-----	-----
WCW-4	11/03/98	GTI	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-4	05/06/99	Alton Geoscience	<500	<500	2.1	7.7	0.62	3.4	<1	<0.50	-----	-----	-----	-----
WCW-4	11/17/99	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-4	05/18/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-4	11/30/00	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-4	05/09/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-4	11/08/01	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-4	04/09/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-4	10/24/02	GTI	<300	-----	<0.50	<1	<1	<1	<0.50	<1	-----	-----	-----	-----
WCW-4	04/10/03	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-4	10/11/03	Blaine Tech	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-4	05/10/04	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-4	11/03/04	Blaine Tech	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-4	05/05/05	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-4	11/05/05	Blaine Tech	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-4	05/05/06	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-4	12/05/06	Blaine Tech	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-4	05/01/07	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-4	11/13/07	Blaine Tech	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.72	<10	<2	<2	<2
WCW-4	04/18/08	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.61	-----	-----	-----	-----
WCW-4	10/17/08	Blaine Tech	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.65	<10	<2	<2	<2

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 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
WCW-4	04/21/09	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.51	<10	<1	<1	<1
WCW-4	10/26/09	Blaine Tech	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.64	<10	<2	<2	<2
WCW-4	05/27/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-4	10/07/10	Blaine Tech	<100	-----	<0.50	-----	-----	-----	<0.50	0.89	<10	-----	-----	-----
WCW-4	04/13/11	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.7	<10	<1	<1	<1
WCW-4	10/14/11	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.62	<10	<2	<2	<2
WCW-4	04/18/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.59	<10	<1	<1	<1
WCW-4	10/18/12	Parsons	---	-----	<0.50	<0.50	<0.50	<0.50	<0.50	0.53	<10	<2	<2	<2
WCW-4	04/10/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-4	10/09/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-4	04/15/14	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-4	10/28/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-4	04/22/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-4	10/21/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW 4	04/14/16	BT for CH2MHill	<50	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-4	10/04/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-4	04/18/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-4	10/03/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-5	11/22/96	GSI	<50	<500	<0.50	<0.50	<0.50	<1.5	<0.50	<5	-----	-----	-----	-----
WCW-5	07/08/97	Terra Services	<100	<500	<0.50	7.7	<0.50	1.4	<0.50	<5	-----	-----	-----	-----
WCW-5	01/05/98	GTI	<500	<100	<0.50	<0.50	<0.50	<1	0.7	<0.50	-----	-----	-----	-----
WCW-5	05/19/98	Terra Services	<300	-----	<0.50	<0.50	<0.50	<1	<0.50	<0.50	-----	-----	-----	-----
WCW-5	11/04/98	GTI	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-5	05/05/99	Alton Geoscience	<500	<500	10	43	3.8	21	<1	<0.50	-----	-----	-----	-----
WCW-5	11/17/99	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-5	05/16/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-5	11/30/00	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-5	05/10/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-5	11/08/01	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-5	04/11/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-5	10/24/02	GTI	<300	-----	<0.50	<1	<1	<1	<0.50	<1	-----	-----	-----	-----
WCW-5	04/10/03	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-5	10/11/03	Blaine Tech	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-5	05/10/04	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-5	11/03/04	Blaine Tech	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-5	05/06/05	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-5	11/05/05	Blaine Tech	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-5	05/05/06	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-5	12/05/06	Blaine Tech	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-5	05/01/07	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-5	11/13/07	Blaine Tech	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-5	04/18/08	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-5	10/17/08	Blaine Tech	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-5	04/21/09	GMX	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-5	10/26/09	Blaine Tech	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-5	05/25/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-5	10/07/10	Blaine Tech	<100	-----	<0.50	-----	-----	-----	<0.50	<0.50	<10	-----	-----	-----
WCW-5	04/11/11	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-5	10/14/11	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-5	04/17/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-5	10/18/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
WCW-5	04/09/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-5	10/08/13	CHHL	<50	130	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-5	04/15/14	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-5	10/28/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-5	04/22/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-5	10/21/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-5	04/13/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-5	10/05/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-5	04/19/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-5	10/03/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-6	11/22/96	GSI	230	<500	<0.50	<0.50	<0.50	<1.5	220	24	-----	-----	-----	-----
WCW-6	07/15/97	Terra Services	<100	<500	<0.50	<0.50	<0.50	<1	65	10	-----	-----	-----	-----
WCW-6	01/05/98	GTI	<500	<100	<0.50	<0.50	<0.50	<1	159	3.0	-----	-----	-----	-----
WCW-6	05/26/98	Terra Services	<300	-----	<0.50	<0.50	<0.50	<1	83	2.0	-----	-----	-----	-----
WCW-6	11/04/98	GTI	<300	-----	<0.50	<0.50	<0.50	<0.50	46	1.8	-----	-----	-----	-----
WCW-6	05/06/99	Alton Geoscience	<500	<500	<0.50	<0.50	<0.50	<0.50	53	0.68	-----	-----	-----	-----
WCW-6	11/17/99	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	11	<0.50	-----	-----	-----	-----
WCW-6	05/16/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	16	0.70	-----	-----	-----	-----
WCW-6	11/30/00	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	2.7	<0.50	-----	-----	-----	-----
WCW-6	05/09/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	5.7	<0.50	-----	-----	-----	-----
WCW-6	11/08/01	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	2.7	<0.50	-----	-----	-----	-----
WCW-6	04/11/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	1.7	<0.50	-----	-----	-----	-----
WCW-6	10/24/02	GTI	<300	-----	<0.50	<1	<1	<1	<0.50	<1	-----	-----	-----	-----
WCW-6	04/10/03	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	1.4	<0.50	-----	-----	-----	-----
WCW-6	10/11/03	Blaine Tech	<100	-----	<0.50	<0.50	<0.50	<0.50	0.93	<0.50	-----	-----	-----	-----
WCW-6	05/10/04	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	0.64	<0.50	-----	-----	-----	-----
WCW-6	11/03/04	Blaine Tech	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-6	05/05/05	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-6	11/05/05	Blaine Tech	<100	-----	<0.50	<0.50	<0.50	<0.50	1.1	<0.50	<10	<2	<2	<2
WCW-6	05/05/06	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-6	12/05/06	Blaine Tech	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-6	05/02/07	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-6	11/13/07	Blaine Tech	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-6	04/18/08	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-6	10/17/08	BT for Parsons	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-6	04/21/09	BT for AMEC GMX	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-6	10/26/09	Blaine Tech	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-6	05/24/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-6	10/07/10	BT for Parsons	<100	-----	<0.50	-----	-----	-----	<0.50	<0.50	<10	-----	-----	-----
WCW-6	04/11/11	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	0.69	<0.50	<10	<1	<1	<1
WCW-6	10/13/11	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	0.28 J	<0.50	<10	<2	<2	<2
WCW-6	04/18/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-6	10/18/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-6	04/09/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-6	10/09/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-6	04/15/14	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-6	10/28/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-6	04/22/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-6	10/21/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-6	04/13/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-6	10/05/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0

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 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
WCW-6	04/19/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-6	10/03/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-7	11/22/96	GSI	<50	<500	<0.50	<0.50	<0.50	<1.5	31	<5	----	----	----	----
WCW-7	07/15/97	Terra Services	<100	<500	<0.50	<0.50	<0.50	<1	<0.50	<5	----	----	----	----
WCW-7	01/05/98	GTI	<500	<100	<0.50	<0.50	<0.50	<1	30	<0.50	----	----	----	----
WCW-7	05/23/98	Terra Services	<300	----	<0.50	<0.50	<0.50	<1	30	<0.50	----	----	----	----
WCW-7	11/04/98	GTI	<300	----	<0.50	<0.50	<0.50	<0.50	35	<0.50	----	----	----	----
WCW-7	05/06/99	Alton Geoscience	<500	<500	<0.50	<0.50	<0.50	<0.50	45	<0.50	----	----	----	----
WCW-7	11/18/99	IT Corporation	<300	----	<0.50	<1	<0.50	0.60	62	1.3	----	----	----	----
WCW-7	05/16/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	120	6.4	----	----	----	----
WCW-7	11/30/00	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	83	6.0	----	----	----	----
WCW-7	02/05/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	95	6.1	----	----	----	----
WCW-7	05/10/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	91	9.3	----	----	----	----
WCW-7	09/18/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	140	12	----	----	----	----
WCW-7	11/08/01	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	91	11	----	----	----	----
WCW-7	01/30/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	84	8.8	----	----	----	----
WCW-7	04/11/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	66	8.4	----	----	----	----
WCW-7	07/30/02	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	74	8.6	----	----	----	----
WCW-7	10/24/02	GTI	<300	----	<0.50	<1	<1	<1	78	9.3	----	----	----	----
WCW-7	01/28/03	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	80	7.3	----	----	----	----
WCW-7	04/10/03	Secor	<100	----	<0.50	<0.50	<0.50	<0.50	69	6.8	----	----	----	----
WCW-7	07/30/03	Secor	<100	----	<0.50	<0.50	<0.50	<0.50	69	7.6	----	----	----	----
WCW-7	10/11/03	Blaine Tech	<100	----	<0.50	<0.50	<0.50	<0.50	84	9.4	----	----	----	----
WCW-7	01/28/04	Secor	<100	----	<0.50	<0.50	<0.50	<0.50	100	10	----	----	----	----
WCW-7	05/10/04	Secor	<100	----	<0.50	<0.50	<0.50	<0.50	73	6.7	----	----	----	----
WCW-7	07/20/04	Secor	140	----	<0.50	<0.50	<0.50	<0.50	110	9.0	----	----	----	----
WCW-7	11/03/04	Blaine Tech	<100	----	<0.50	<0.50	<0.50	<0.50	84	11	51	29	<2	<2
WCW-7	02/03/05	Secor	72	----	<0.50	<0.50	<0.50	<0.50	91	8.8	----	----	----	----
WCW-7	05/05/05	Secor	<100	----	<0.50	<0.50	<0.50	<0.50	83	6.9	----	----	----	----
WCW-7	08/03/05	Secor	53	----	<0.50	<0.50	<0.50	<0.50	49	14	----	----	----	----
WCW-7	11/05/05	Blaine Tech	<100	----	<0.50	<0.50	<0.50	<0.50	14	6.7	<10	2.2	<2	<2
WCW-7	02/28/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	2.5	0.84	----	----	----	----
WCW-7	05/05/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	6.0	2.5	----	----	----	----
WCW-7	09/20/06	Secor	<100	----	<0.50	<0.50	<0.50	<0.50	33	7.2	----	----	----	----
WCW-7	12/05/06	Blaine Tech	<100	----	<0.50	<0.50	<0.50	<0.50	36	8.0	<10	4.8	<2	<2
WCW-7	03/13/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	32	5.4	----	----	----	----
WCW-7	05/02/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	49	6.4	----	----	----	----
WCW-7	08/28/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	56	7.1	----	----	----	----
WCW-7	11/14/07	Blaine Tech	<100	----	<0.50	<0.50	<0.50	<0.50	50	6.5	<10	9.2	<2	<2
WCW-7	02/21/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	43	5.9	----	----	----	----
WCW-7	04/18/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	54	5.9	----	----	----	----
WCW-7	08/13/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	55	5.3	----	----	----	----
WCW-7	10/17/08	Blaine Tech	<100	----	<0.50	<0.50	<0.50	<0.50	45	5.4	<10	12	<2	<2
WCW-7	02/24/09	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	40	2.4	<10	----	----	----
WCW-7	04/22/09	BT for AMEC GMX	<50	----	<0.50	<0.50	<0.50	<0.50	40	2.8	<10	6.6	<1	<1
WCW-7	07/21/09	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	31	1.9	<10	5.6	<1	<1
WCW-7	10/26/09	Blaine Tech	<100	----	<0.50	<0.50	<0.50	<0.50	40	1.8	<10	3.7	<2	<2
WCW-7	03/15/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	30	1.8	<10	4.0	<1	<1
WCW-7	05/27/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	23	1.2	<10	3.3	<1	<1
WCW-7	07/13/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	20	1.6	<10	3.4	<1	<1
WCW-7	10/07/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	26	1.7	<10	3.9	<1	<1
WCW-7	01/11/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	25	1.4	<10	3.3	<1	<1

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
WCW-7	04/13/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	23	1.4	<10	3.9	<1	<1
WCW-7	07/12/11	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	21	1.2	<10	2.6	<1	<1
WCW-7	10/12/11	CH2M Hill	<500	----	<0.50	<0.50	<0.50	<0.50	21	1.0	<10	2.2	<1	<1
WCW-7	01/09/12	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	16	1.1	<10	2.1	<1	<1
WCW-7	04/18/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	18	0.98	<10	2.2	<1	<1
WCW-7	07/10/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	16	0.84	<10	2.1	<1	<1
WCW-7	10/17/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	9.2	0.56	<10	1.5	<1	<1
WCW-7	01/14/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	18	1.2	<10	1.8	<1	<1
WCW-7	04/10/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	19	0.61	<10	1.3	<1	<1
WCW-7	10/09/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	11	0.60	<10	1.4	<1	<1
WCW-7	04/17/14	CHHL	61	64	<0.50	<0.50	<0.50	<0.50	7.4	0.73	<10	1.7	<1	<1
WCW-7	10/28/14	BT for CH2MHill	<100	<50	<0.50	<0.50	<0.50	<0.50	7.5	0.51	<10	1.2	<1.0	<1.0
WCW-7	04/23/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	5.6	<0.50	<10	1.1	<1.0	<1.0
WCW-7	10/21/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	6.2	0.74	<10	1.9	<1.0	<1.0
WCW 7	04/14/16	BT for CH2MHill	<100	<50	<0.50	<0.50	<0.50	<0.50	7.7	0.82	<10	2.2	<1.0	<1.0
WCW-7	10/05/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-7	10/06/17	BT for CH2MHill	<50	120	1.2	<0.50	<0.50	<0.50	4.8	<0.50	<10	1.2	<1.0	<1.0
WCW-8	11/22/96	GSI	84	<500	<0.50	<0.50	<0.50	<1.5	0.50	<5	----	----	----	----
WCW-8	07/15/97	Terra Services	<100	1,700	<0.50	<0.50	<0.50	<1	<0.50	<5	----	----	----	----
WCW-8	01/05/98	GTI	<500	<100	<0.50	<0.50	<0.50	<1	<0.50	<0.50	----	----	----	----
WCW-8	05/26/98	Terra Services	<300	----	<0.50	<0.50	<0.50	<1	<0.50	<0.50	----	----	----	----
WCW-8	11/03/98	GTI	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-8	05/06/99	Alton Geoscience	<500	<500	<0.50	<0.50	<0.50	<0.50	<1	<0.50	----	----	----	----
WCW-8	11/18/99	IT Corporation	<300	----	<0.50	<1	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-8	05/16/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	1.8	120	----	----	----	----
WCW-8	08/28/00	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	0.70	<0.50	----	----	----	----
WCW-8	11/30/00	IT Corporation	<300	----	0.90	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-8	02/05/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-8	05/09/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-8	09/18/01	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-8	11/08/01	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-8	01/30/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-8	04/11/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-8	10/24/02	GTI	<300	----	<0.50	<1	<1	<1	<0.50	<1	----	----	----	----
WCW-8	04/10/03	Secor	61	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-8	10/11/03	Blaine Tech	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-8	05/10/04	Secor	55	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-8	11/03/04	Blaine Tech	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-8	05/05/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-8	11/05/05	Blaine Tech	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-8	05/05/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-8	12/05/06	Blaine Tech	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-8	05/02/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-8	11/14/07	Blaine Tech	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-8	04/18/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	0.60	----	----	----	----
WCW-8	10/17/08	Blaine Tech	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	<10	<2	<2	<2
WCW-8	04/21/09	BT for AMEC GMX	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	0.59	<10	<1	<1	<1
WCW-8	10/26/09	Blaine Tech	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	<10	<2	<2	<2
WCW-8	05/27/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-8	10/07/10	Blaine Tech	<100	----	<0.50	----	----	----	<0.50	0.90	3.7 J	----	----	----
WCW-8	04/13/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	0.96	<10	<1	<1	<1
WCW-8	10/14/11	Parsons	----	----	<0.50	<0.50	<0.50	<0.50	<0.50	0.92	<10	<2	<2	<2

APPENDIX E
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 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (ug/L)	TPH-d (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Xylenes (ug/L)	1,2-DCA (ug/L)	MTBE (ug/L)	TBA (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)
WCW-8	04/19/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.89	<10	<1	<1	<1
WCW-8	10/18/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-8	04/11/13	CHHL	<100	<50	<0.50	<0.50	<0.50	<0.50	<1	<0.50	<10	<1	<1	<1
WCW-8	10/09/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-8	04/15/14	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-8	10/28/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-8	04/22/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-8	10/21/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW 8	04/13/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-8	10/04/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-8	04/19/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-8	10/03/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-9	11/22/96	GSI	<50	<500	<0.50	<0.50	<0.50	<1.5	<0.50	<5	-----	-----	-----	-----
WCW-9	07/08/97	Terra Services	<100	<500	<0.50	1.1	<0.50	1.1	<0.50	<5	-----	-----	-----	-----
WCW-9	01/05/98	GTI	<500	<100	<0.50	<0.50	<0.50	<1	<0.50	<0.50	-----	-----	-----	-----
WCW-9	05/19/98	Terra Services	-----	-----	<0.50	<0.50	<0.50	<1	<0.50	<0.50	-----	-----	-----	-----
WCW-9	11/03/98	GTI	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-9	05/06/99	Alton Geoscience	<500	<500	<0.50	<0.50	<0.50	<0.50	<1	<0.50	-----	-----	-----	-----
WCW-9	11/18/99	IT Corporation	<300	-----	<0.50	<1	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-9	05/16/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-9	11/30/00	IT Corporation	<300	-----	0.60	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-9	05/10/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-9	11/08/01	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-9	04/11/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-10	11/25/96	GSI	<50	<500	<0.50	<0.50	<0.50	<1.5	<0.50	<5	-----	-----	-----	-----
WCW-10	07/08/97	Terra Services	<100	<500	<0.50	2.2	<0.50	<1	<0.50	<5	-----	-----	-----	-----
WCW-10	01/05/98	GTI	<500	<100	<0.50	<0.50	<0.50	<1	<0.50	<0.50	-----	-----	-----	-----
WCW-10	05/19/98	Terra Services	-----	-----	<0.50	<0.50	<0.50	<1	<0.50	<0.50	-----	-----	-----	-----
WCW-10	11/04/98	GTI	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-10	05/05/99	Alton Geoscience	<500	<500	<0.50	0.80	<0.50	<0.50	<1	<0.50	-----	-----	-----	-----
WCW-10	11/17/99	IT Corporation	<300	-----	<0.50	<0.50	<0.50	0.80	<0.50	<0.50	-----	-----	-----	-----
WCW-10	05/19/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-10	11/30/00	IT Corporation	<300	-----	1.0	<0.50	<0.50	0.70	<0.50	<0.50	-----	-----	-----	-----
WCW-10	05/10/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-10	11/08/01	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-10	04/09/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-11	11/25/96	GSI	<50	<500	<0.50	<0.50	<0.50	<1.5	<0.50	<5	-----	-----	-----	-----
WCW-11	07/08/97	Terra Services	<100	<500	<0.50	2.5	<0.50	<1	<0.50	<5	-----	-----	-----	-----
WCW-11	01/05/98	GTI	<500	<100	<0.50	<0.50	<0.50	<1	<0.50	<0.50	-----	-----	-----	-----
WCW-11	05/18/98	Terra Services	-----	-----	<0.50	<0.50	<0.50	<1	<0.50	<0.50	-----	-----	-----	-----
WCW-11	11/03/98	GTI	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-11	05/06/99	Alton Geoscience	<500	<500	<0.50	<0.50	<0.50	<0.50	<1	<0.50	-----	-----	-----	-----
WCW-11	11/17/99	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-11	05/18/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-11	11/30/00	IT Corporation	<300	-----	0.8	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-11	05/09/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-11	11/08/01	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-11	04/09/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-12	11/25/96	GSI	<50	<500	<0.50	<0.50	<0.50	<1.5	<0.50	<5	-----	-----	-----	-----
WCW-12	07/09/97	Terra Services	<100	<500	<0.50	2.5	<0.50	<1	<0.50	<5	-----	-----	-----	-----
WCW-12	01/05/98	GTI	<500	<100	<0.50	<0.50	<0.50	<1	<0.50	<0.50	-----	-----	-----	-----
WCW-12	05/18/98	Terra Services	-----	-----	<0.50	<0.50	<0.50	<1	<0.50	<0.50	-----	-----	-----	-----

**APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
WCW-12	11/03/98	GTI	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-12	05/06/99	Alton Geoscience	<500	<500	1.4	5.3	<0.50	2.3	<1	<0.50	-----	-----	-----	-----
WCW-12	11/17/99	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-12	05/18/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-12	11/30/00	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-12	05/09/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-12	11/08/01	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-12	04/09/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-12	10/24/02	GTI	<300	-----	<0.50	<1	<1	<1	<0.50	<1	-----	-----	-----	-----
WCW-12	04/09/03	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-12	05/10/04	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-12	11/03/04	Blaine Tech	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-12	03/02/05	Blaine Tech	<100	-----	<0.50	<1	<1	<1	-----	<1	-----	-----	-----	-----
WCW-12	05/05/05	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-12	11/05/05	Blaine Tech	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-12	05/05/06	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-12	12/08/06	Blaine Tech	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-12	05/01/07	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-12	11/13/07	Blaine Tech	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-12	04/18/08	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-12	10/17/08	Blaine Tech	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-12	04/21/09	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-12	10/27/09	Blaine Tech	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-12	05/24/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-12	10/07/10	Blaine Tech	<100	-----	<0.50	-----	-----	-----	<0.50	<0.50	<10	-----	-----	-----
WCW-12	04/11/11	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-12	10/14/11	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-12	04/17/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-12	10/18/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-12	04/09/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-12	10/08/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-12	04/15/14	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-12	10/28/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-12	04/22/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-12	10/21/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-12	04/12/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-12	10/04/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-12	04/19/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-12	10/03/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-13	11/25/96	GSI	<50	<500	<0.50	<0.50	<0.50	<1.5	<0.50	<5	-----	-----	-----	-----
WCW-13	07/09/97	Terra Services	<100	<500	<0.50	<0.50	<0.50	<1	<0.50	<5	-----	-----	-----	-----
WCW-13	01/05/98	GTI	<500	<100	<0.50	<0.50	<0.50	<1	<0.50	<0.50	-----	-----	-----	-----
WCW-13	05/18/98	Terra Services	-----	-----	<0.50	<0.50	<0.50	<1	<0.50	1.4	-----	-----	-----	-----
WCW-13	11/03/98	GTI	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-13	05/06/99	Alton Geoscience	<500	<500	0.88	3.1	<0.50	0.87	<1	<0.50	-----	-----	-----	-----
WCW-13	11/17/99	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-13	05/18/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	0.8	<0.50	-----	-----	-----	-----
WCW-13	08/28/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-13	11/30/00	IT Corporation	<300	-----	0.6	<0.50	<0.50	<0.50	1	<0.50	-----	-----	-----	-----
WCW-13	02/05/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-13	05/09/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	0.6	<0.50	-----	-----	-----	-----
WCW-13	09/18/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	1	<0.50	-----	-----	-----	-----

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
WCW-13	11/08/01	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-13	01/30/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-13	04/09/02	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-13	07/30/02	IT Corporation	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-13	10/24/02	GTI	<300	----	<0.50	<1	<1	<1	<0.50	<1	----	----	----	----
WCW-13	01/28/03	Secor	<300	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-13	04/09/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-13	07/30/03	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-13	01/28/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-13	05/10/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-13	07/20/04	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-13	11/03/04	Blaine Tech	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-13	02/03/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-13	05/05/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-13	08/02/05	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-13	11/05/05	Blaine Tech	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-13	02/28/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-13	05/05/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-13	09/20/06	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-13	12/08/06	Blaine Tech	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-13	03/13/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-13	05/01/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-13	08/28/07	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-13	11/13/07	Blaine Tech	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-13	02/21/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-13	04/18/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-13	08/13/08	Secor	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-13	10/17/08	Blaine Tech	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-13	02/23/09	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	----
WCW-13	04/21/09	Blaine Tech for AMEC	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-13	07/20/09	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-13	10/27/09	Blaine Tech	<100	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-13	03/15/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-13	05/24/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-13	07/12/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-13	10/08/10	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-13	01/10/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-13	04/11/11	Blaine Tech	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-13	07/11/11	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-13	10/11/11	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-13	01/09/12	CH2M Hill	<50	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-13	04/17/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-13	07/09/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-13	10/16/12	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-13	01/14/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-13	04/09/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-13	10/09/13	CHHL	<50	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-13	04/15/14	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-13	10/28/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-13	04/22/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-13	10/21/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Xylenes	1,2-DCA	MTBE	TBA	DIPE	ETBE	TAME
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
WCW-13	04/12/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-13	10/04/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-13	04/18/17	BT for CH2MHill	<50	450	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-13	10/03/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-14	11/03/98	GTI	<300	-----	<0.50	<0.50	<0.50	<0.50	1.5	<0.50	-----	-----	-----	-----
WCW-14	05/06/99	Alton Geoscience	<500	<500	1.8	6.6	0.55	3	<1	<0.50	-----	-----	-----	-----
WCW-14	11/17/99	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-14	05/18/00	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-14	11/30/00	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-14	05/09/01	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-14	11/08/01	IT Corporation	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-14	04/09/02	Secor	<300	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-14	10/24/02	GTI	<300	-----	<0.50	<1	<1	<1	<0.50	<1	-----	-----	-----	-----
WCW-14	04/09/03	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-14	05/10/04	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-14	11/03/04	Blaine Tech	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-14	05/05/05	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-14	11/05/05	Blaine Tech	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-14	05/05/06	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-14	12/08/06	Blaine Tech	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-14	05/01/07	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-14	11/13/07	Blaine Tech	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-14	04/18/08	Secor	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----	-----	-----
WCW-14	10/17/08	Blaine Tech	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-14	04/21/09	Blaine Tech for AMEC	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-14	10/27/09	Blaine Tech	<100	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-14	05/25/10	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-14	10/07/10	Blaine Tech	<100	-----	<0.50	-----	-----	-----	<0.50	<0.50	<10	-----	-----	-----
WCW-14	04/12/11	Blaine Tech	<50	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-14	10/14/11	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-14	04/17/12	CH2M Hill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-14	10/18/12	Parsons	-----	-----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-14	04/09/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-14	10/08/13	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-14	04/15/14	CHHL	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-14	10/28/14	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-14	04/23/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-14	10/21/15	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-14	04/12/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0

APPENDIX E
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX COMPOUNDS, 1,2-DCA, AND FUEL OXYGENATES IN GROUNDWATER, NOVEMBER 1996 THROUGH OCTOBER 2017
 Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well	Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
WCW-14	10/04/16	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-14	04/19/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
WCW-14	10/03/17	BT for CH2MHill	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0

Notes: Detected concentrations are shown in **bold**.
 TPH = total petroleum hydrocarbons
 BTEX Compounds = benzene, toluene, ethylbenzene, and total xylenes
 1,2-DCA = 1,2-dichloroethane
 TPH-g = total petroleum hydrocarbons as gasoline
 TPH-fp = total petroleum hydrocarbons quantified using a site fuel product standard
 TPH-d = total petroleum hydrocarbons as diesel
 TPH-JP-4 = total petroleum hydrocarbons as Jet Propellant No.4
 TPH-JP-5 = total petroleum hydrocarbons as Jet Propellant No.5

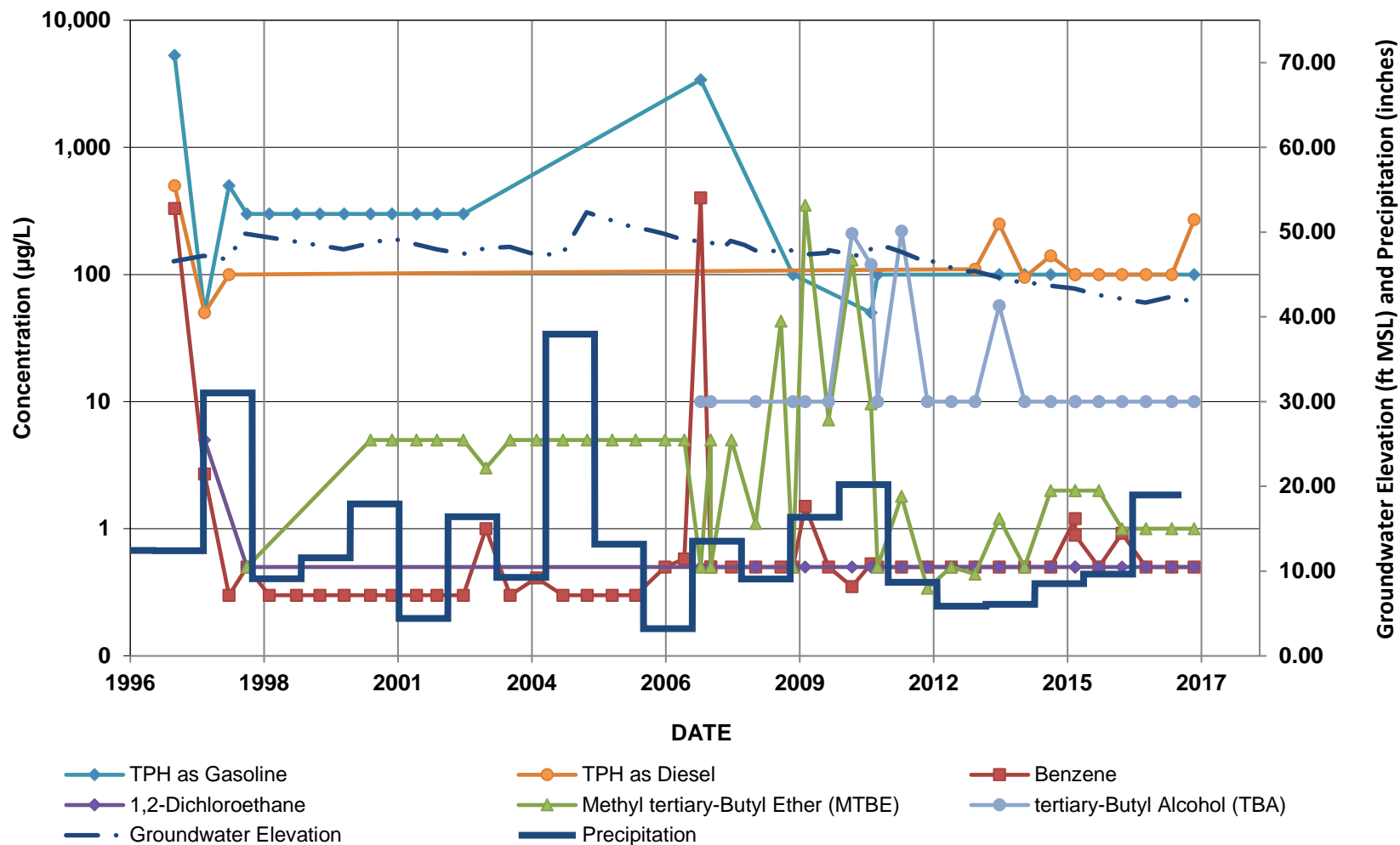
MTBE = methyl tertiary-butyl ether
 TBA = tertiary-butyl alcohol
 DIPE = diisopropyl ether
 ETBE = ethyl tertiary-butyl ether
 TAME = tertiary-amyl methyl ether
 <100 = not detected at or above the indicated laboratory reporting limit
 ----- = not analyzed
 HD = Chromatographic pattern was inconsistent with the profile of the reference fuel standard.
 J = estimated concentration below the laboratory reporting limit

APPENDIX F
TIME-SERIES CHARTS

FORMER TANK FARM AREA

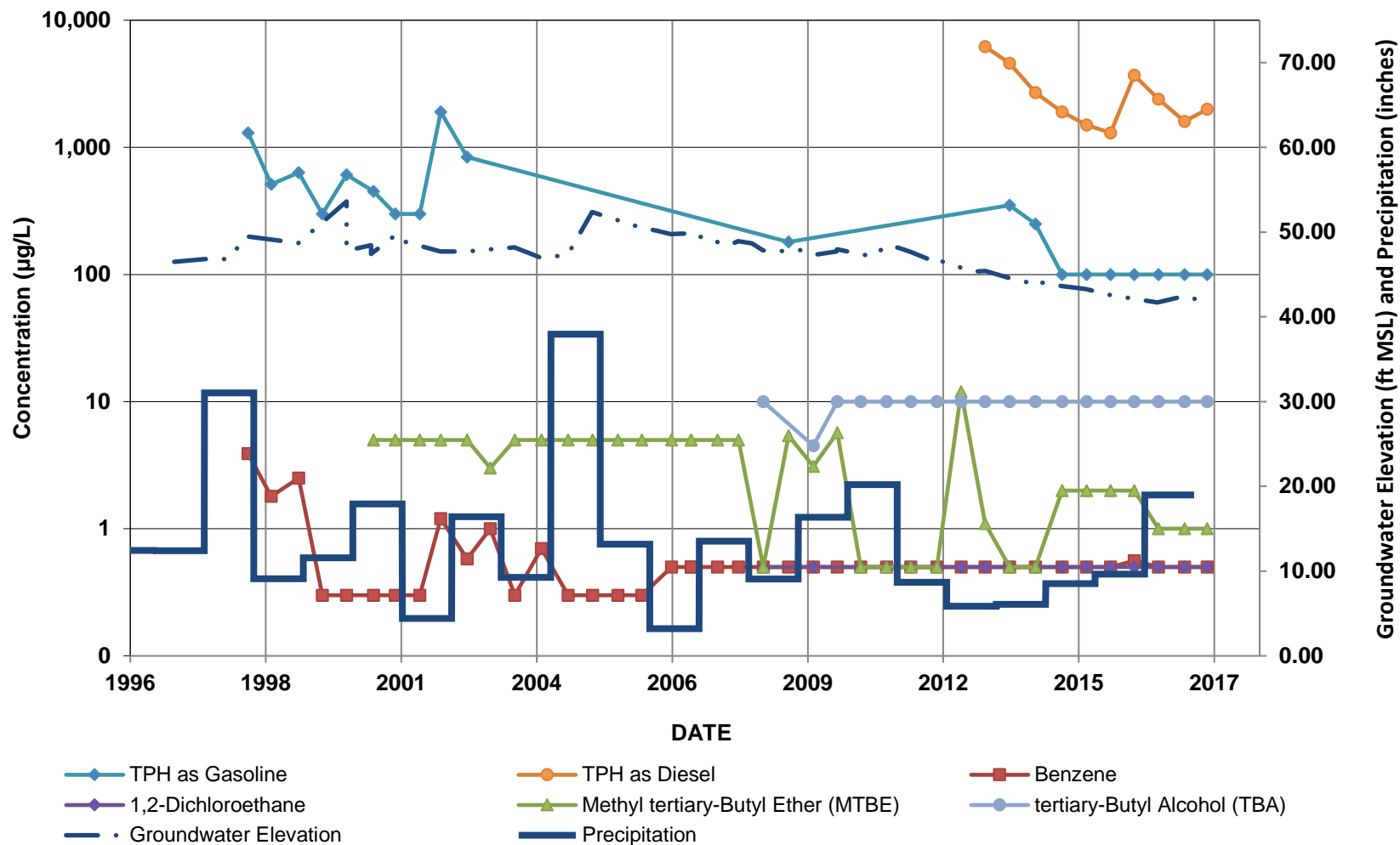
GMW-6, GMW-15, GMW-32, GMW-45, GMW-47, MW-23(MID), AND MW-26

GMW-6



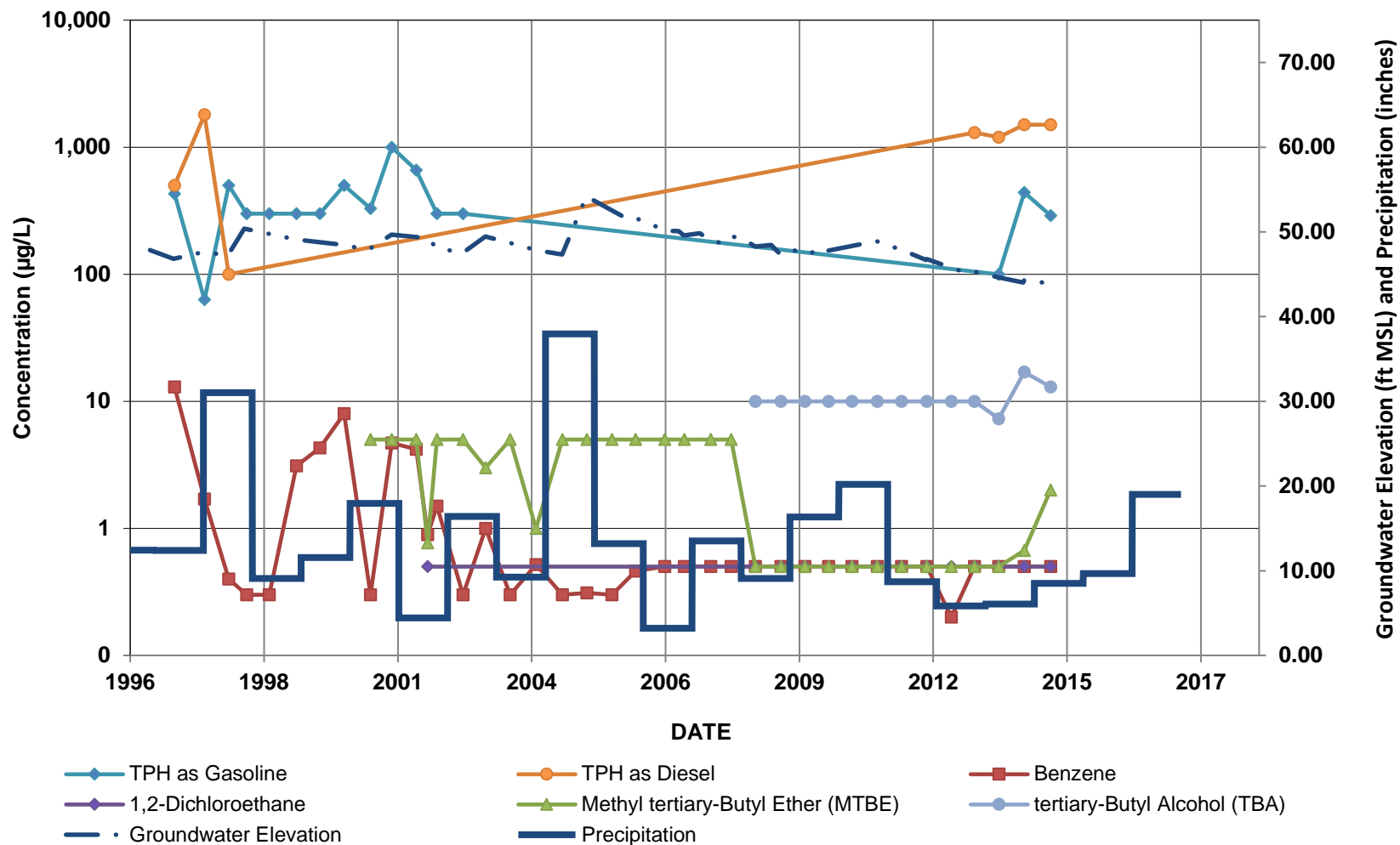
Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

GMW-15



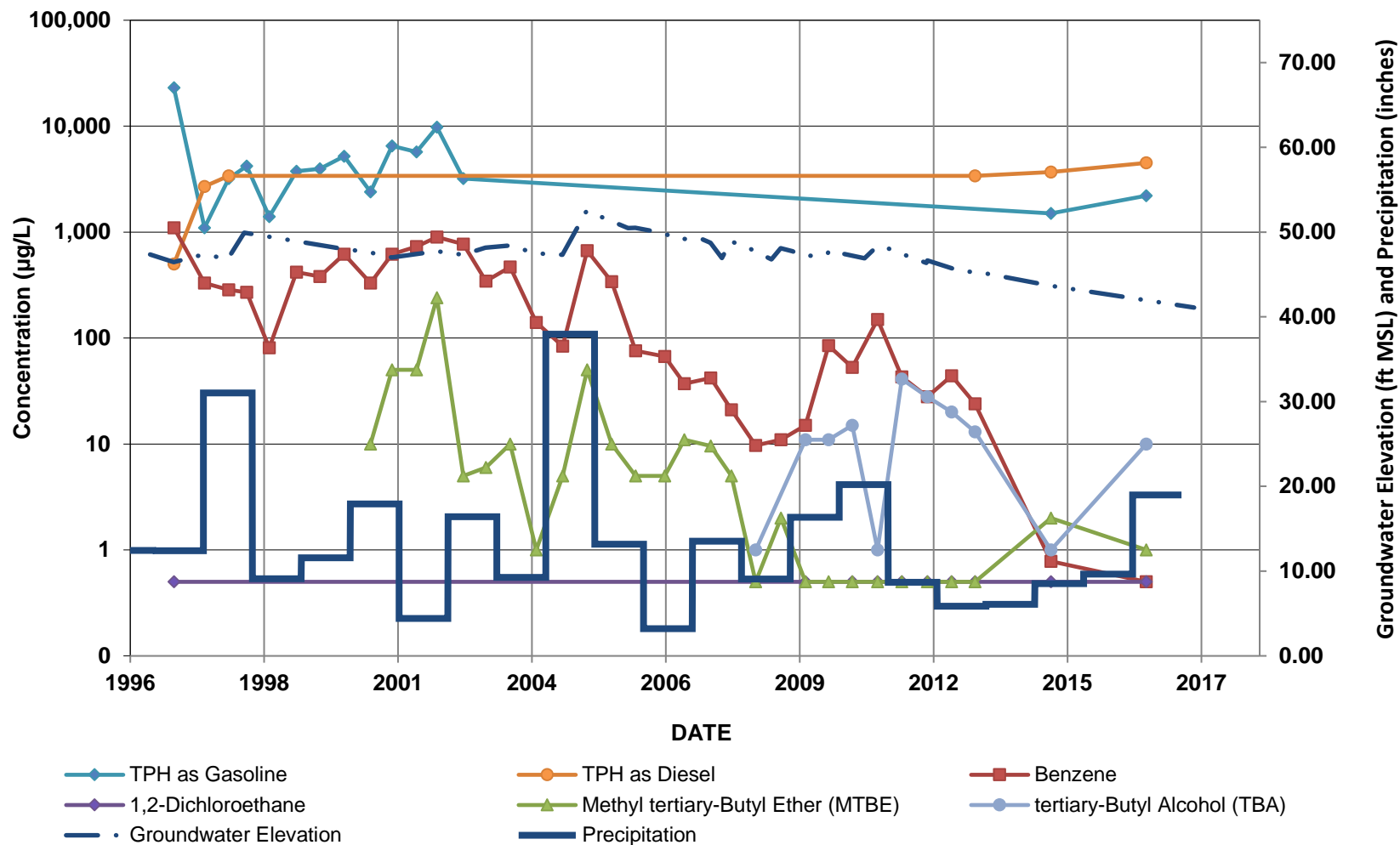
Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

GMW-32



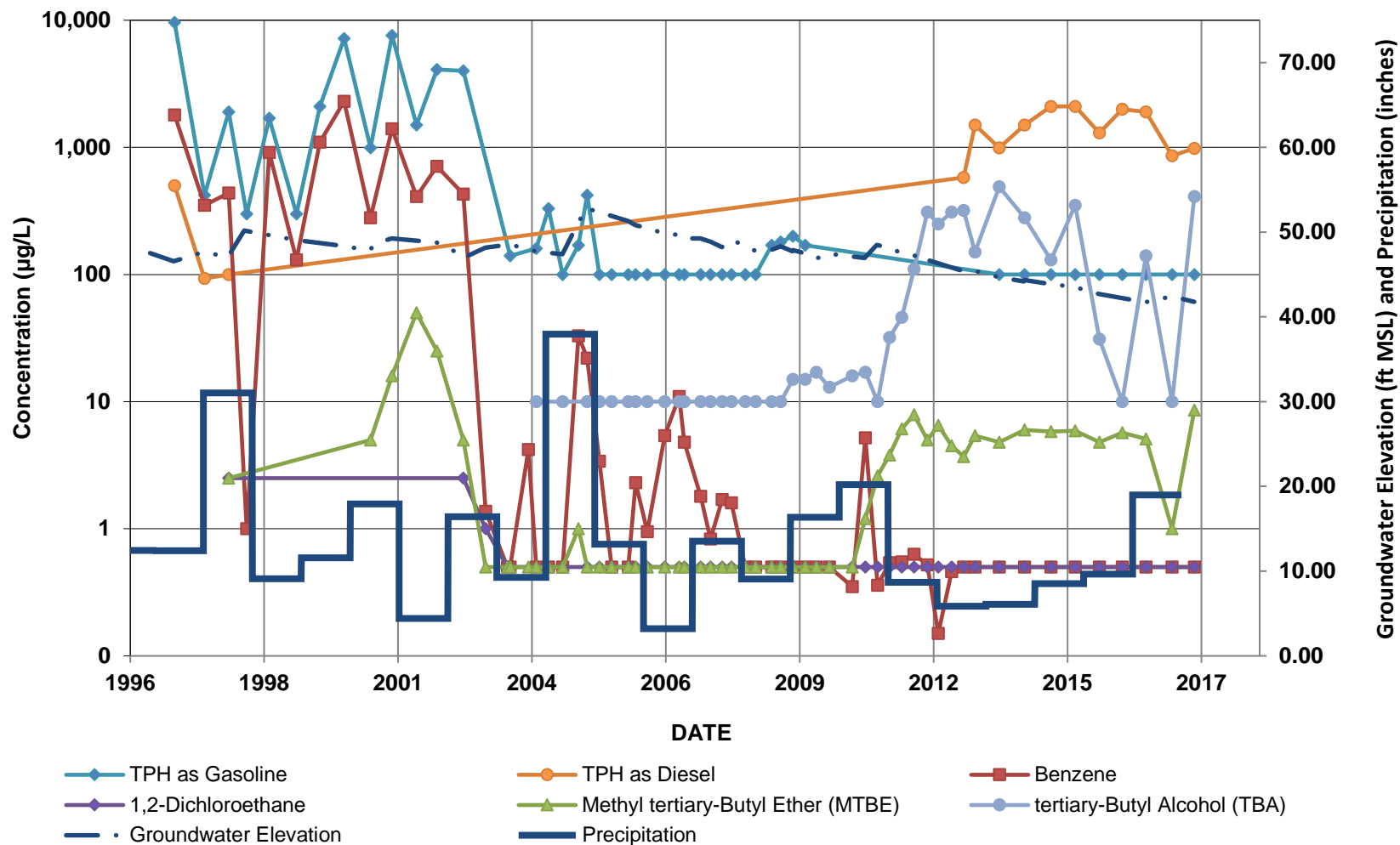
Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

GMW-45



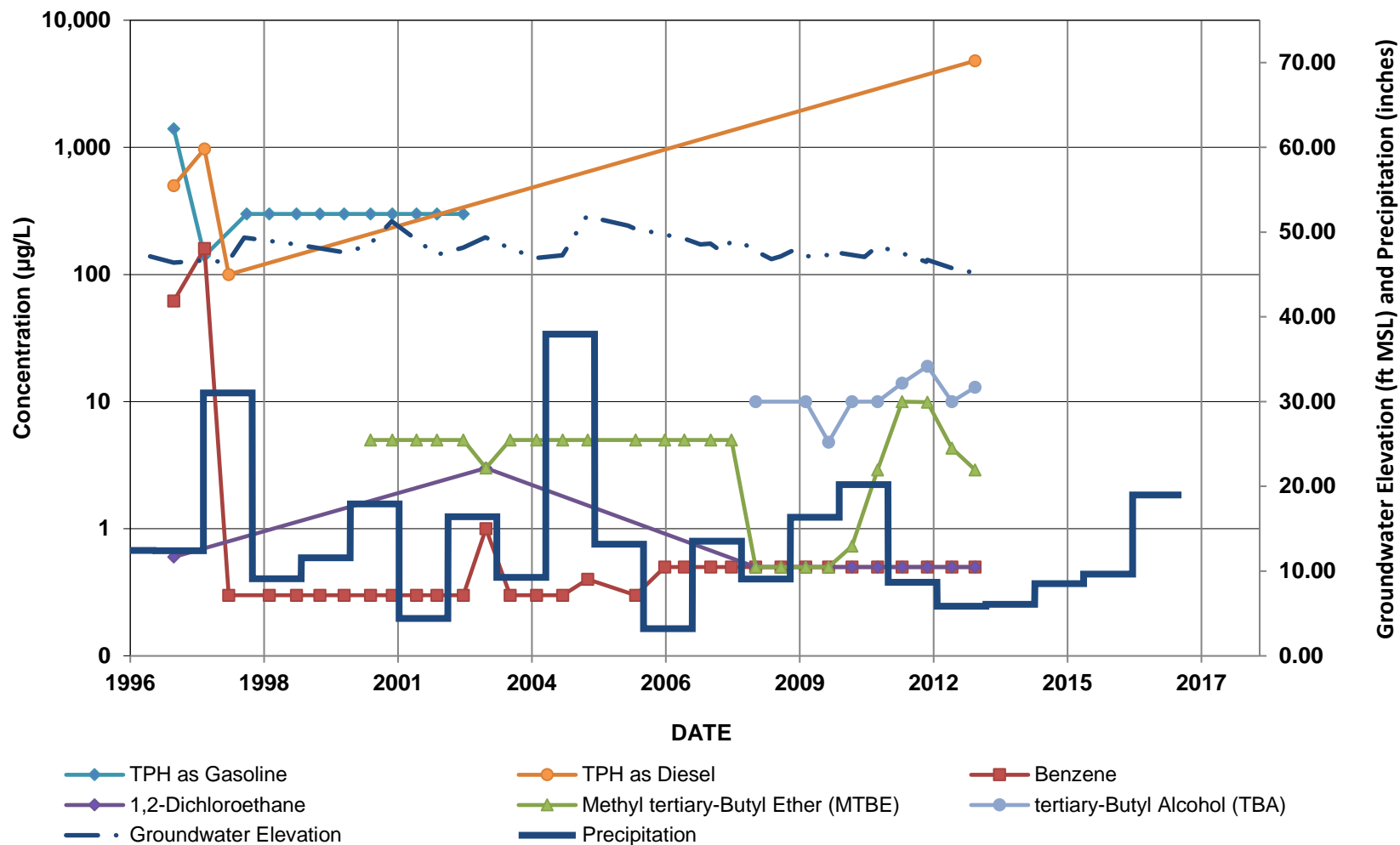
Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

GMW-47



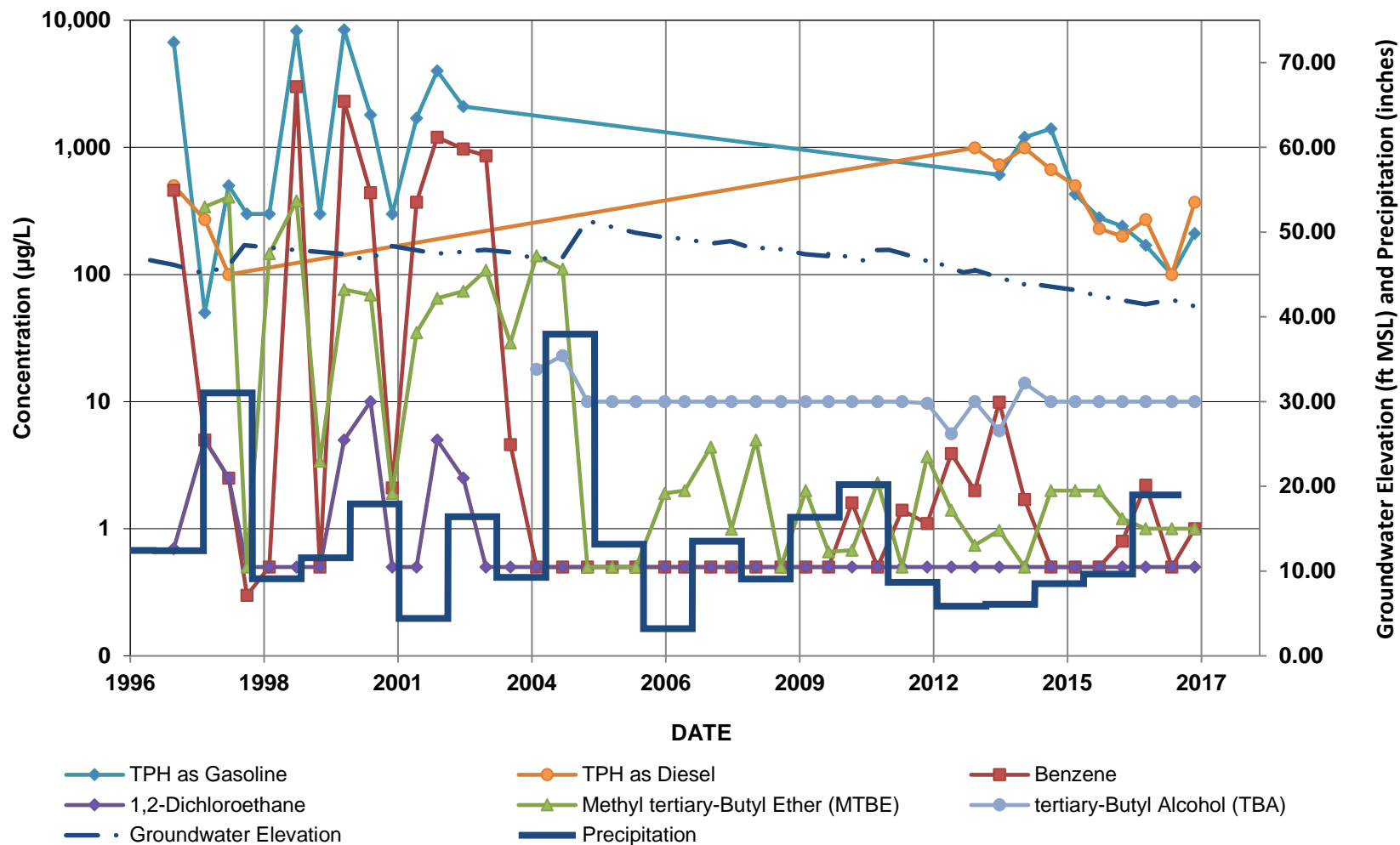
Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

MW-23(MID)



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

MW-26

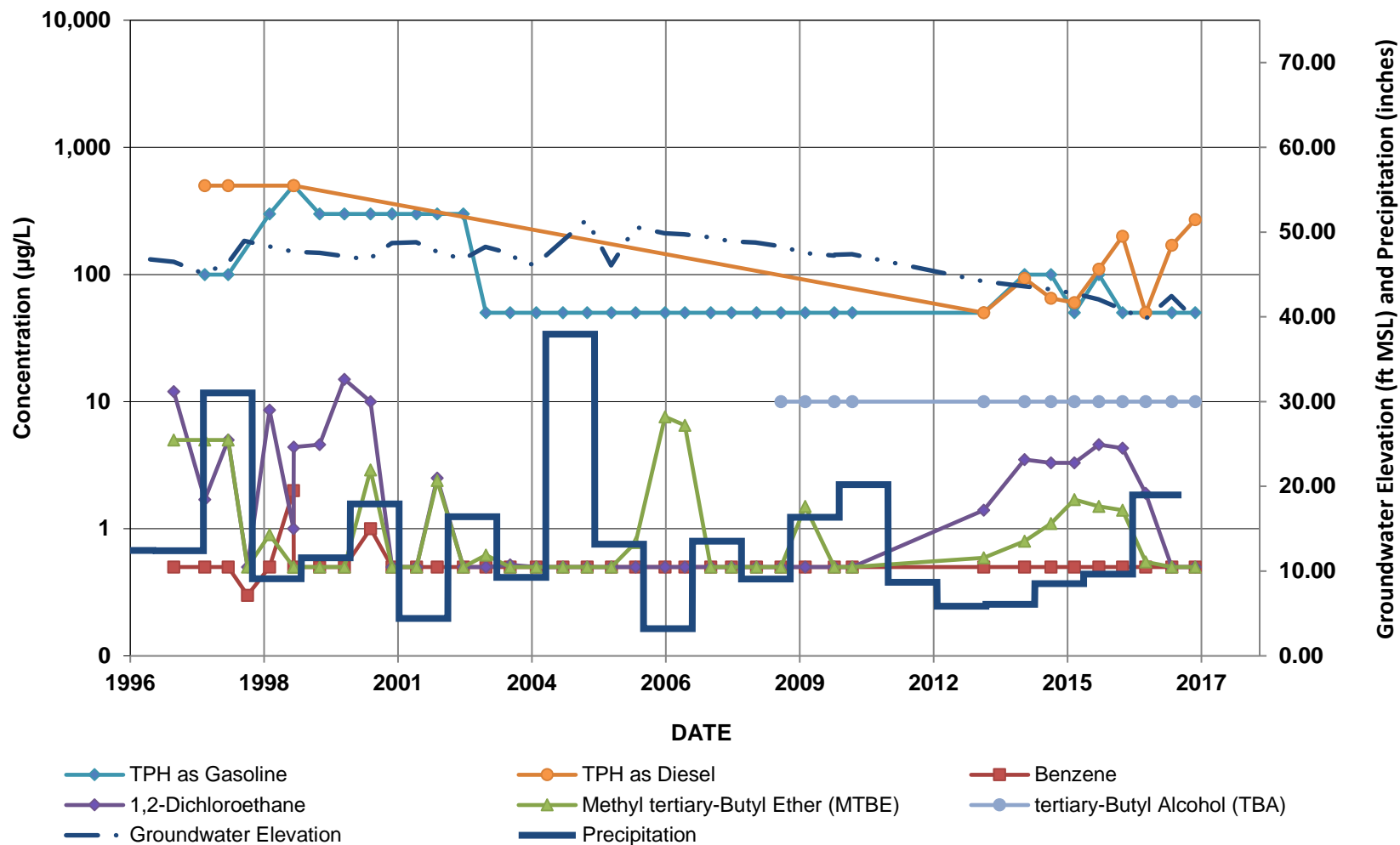


Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

WESTERN AREA

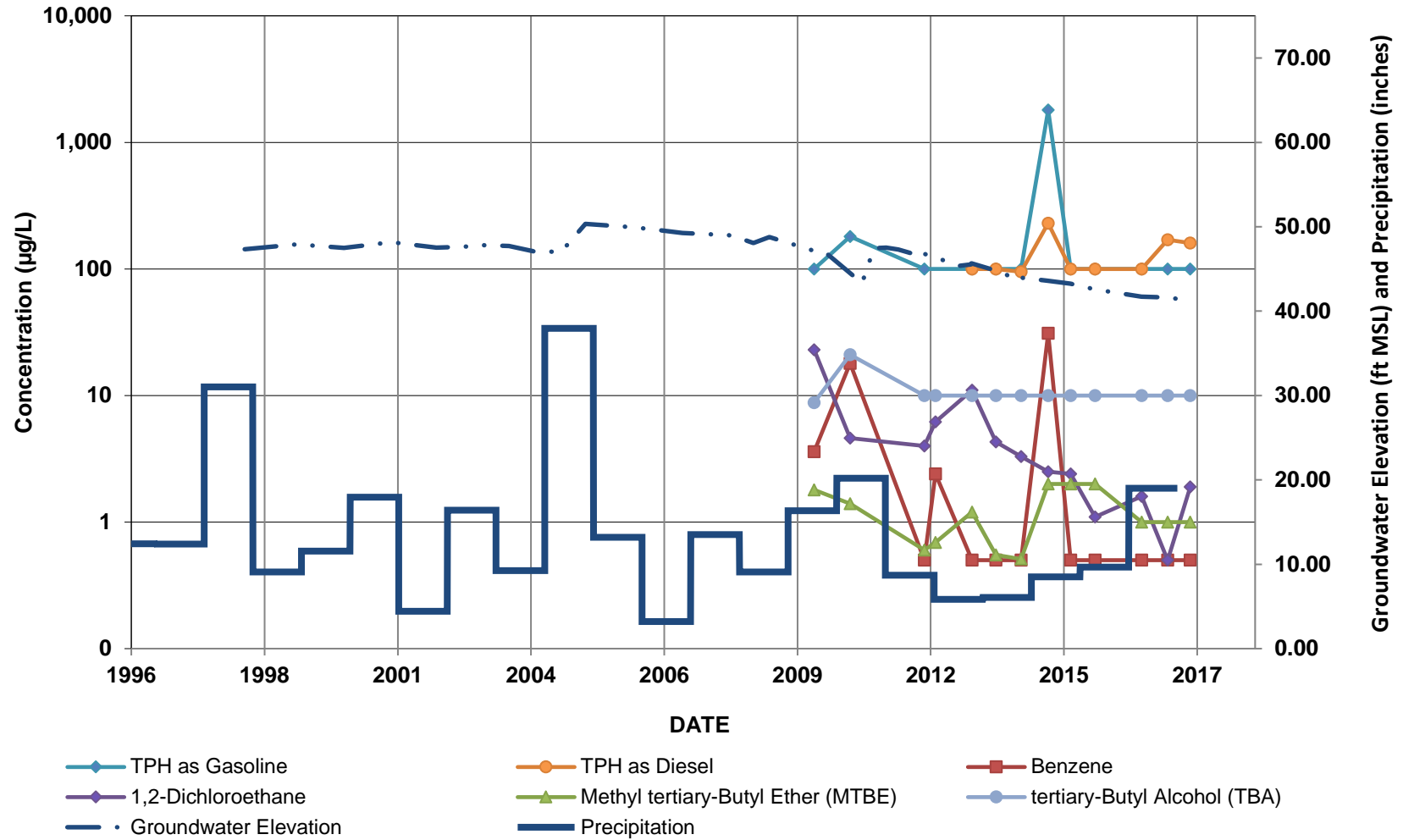
GMW-8, GW-2, GW-6, GW-13, MW-6, MW-7, MW-22(MID), MW-26, WCW-3, AND WCW-7

GMW-8



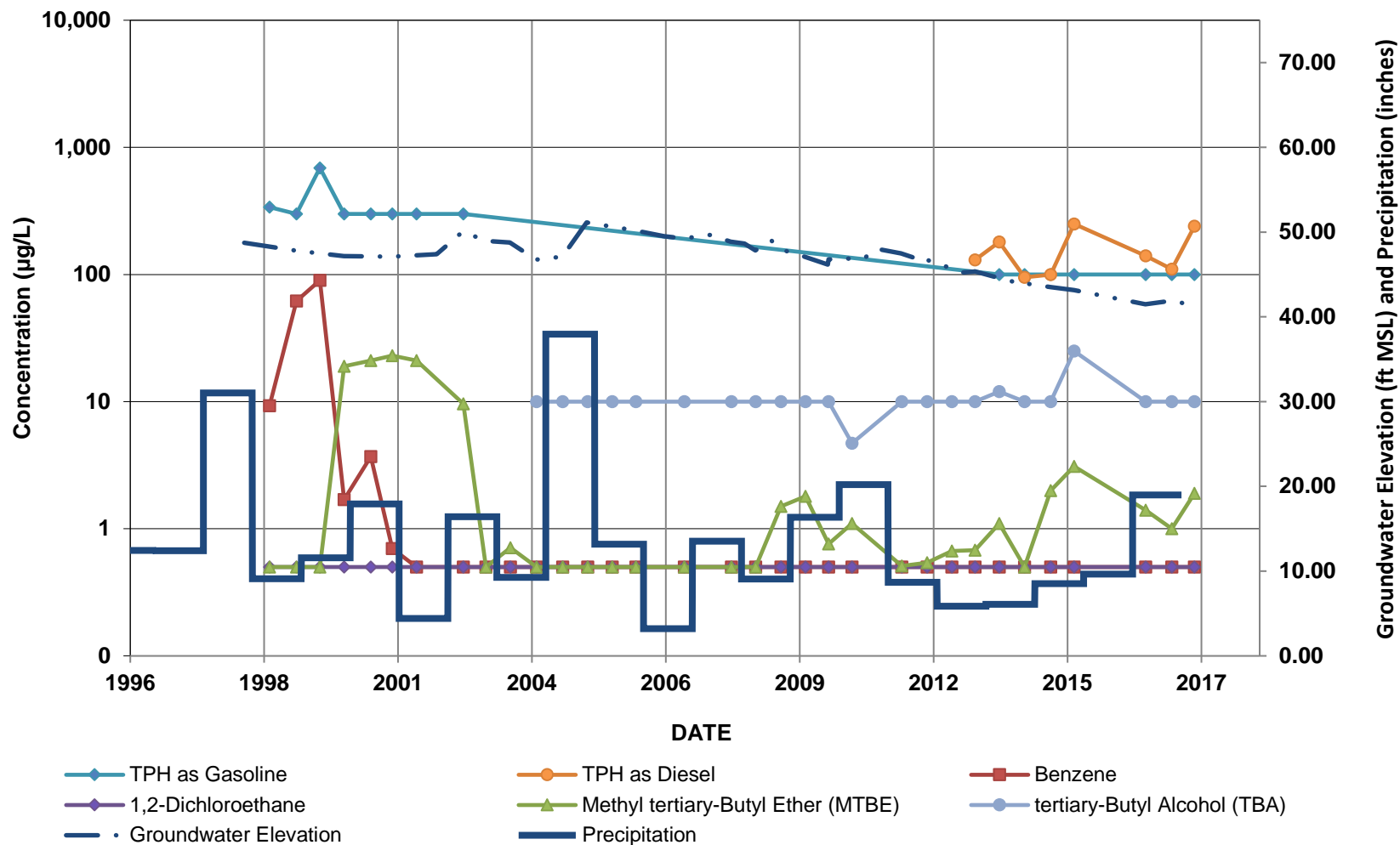
Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

GW-2



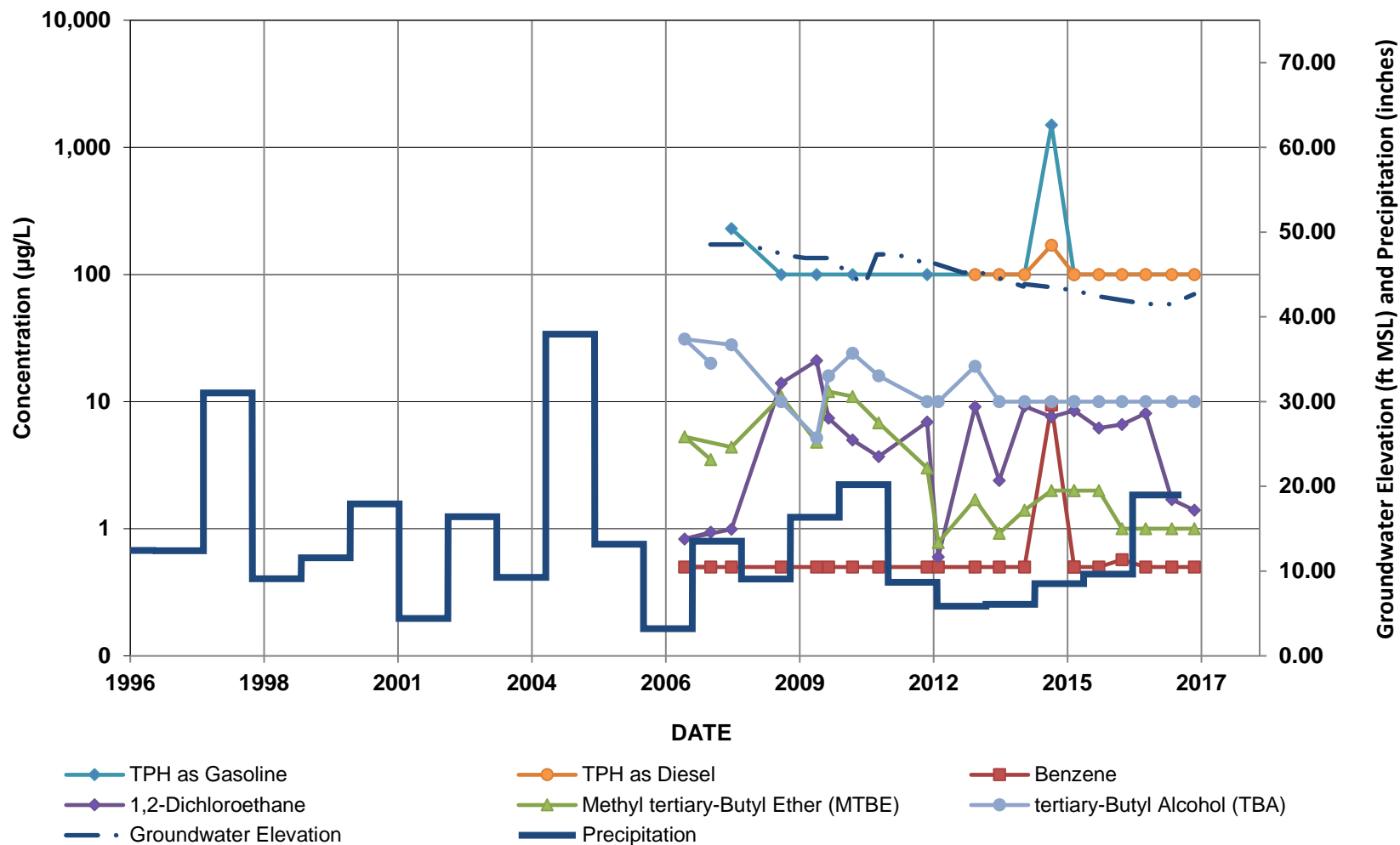
Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

GW-6



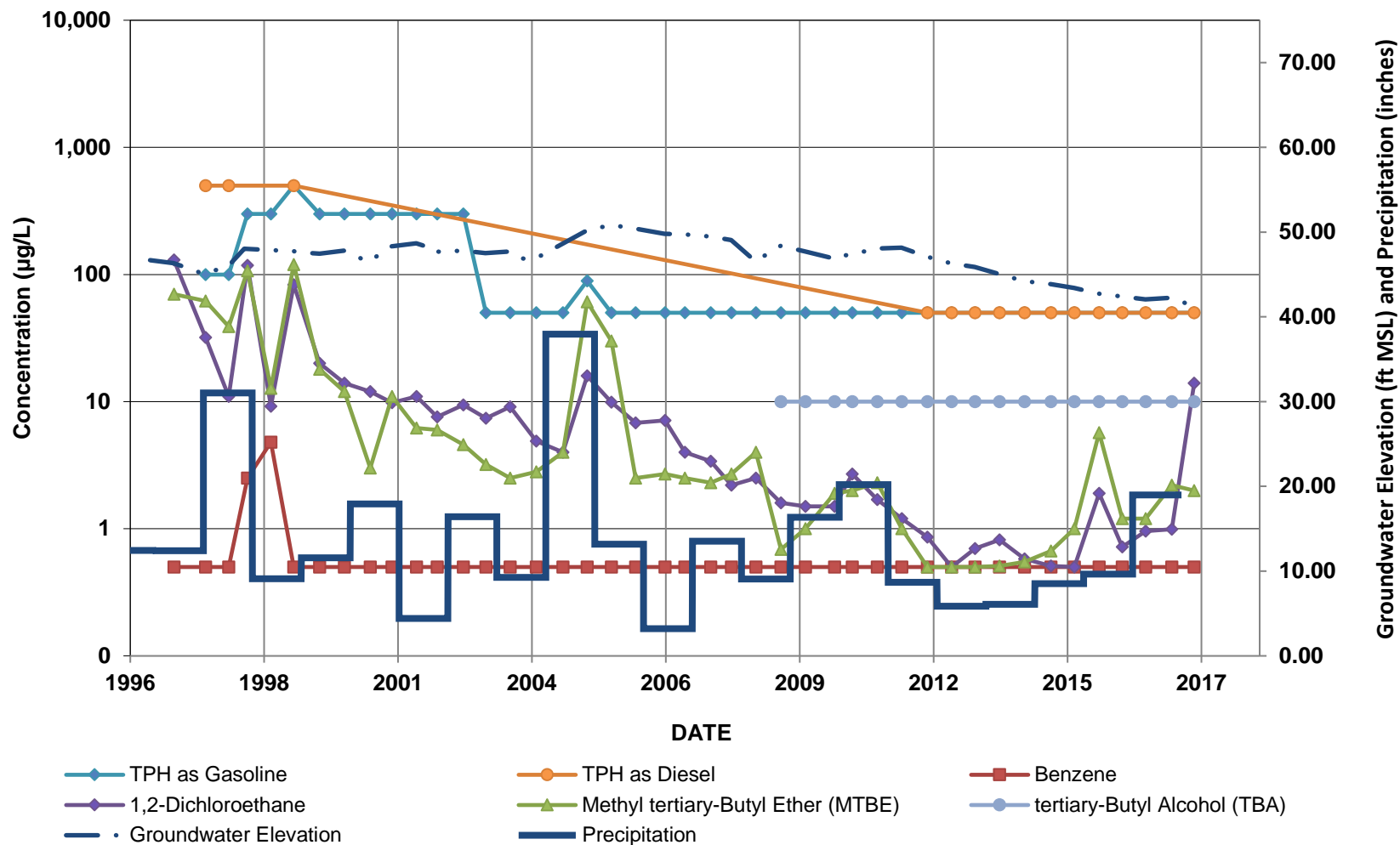
Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

GW-13



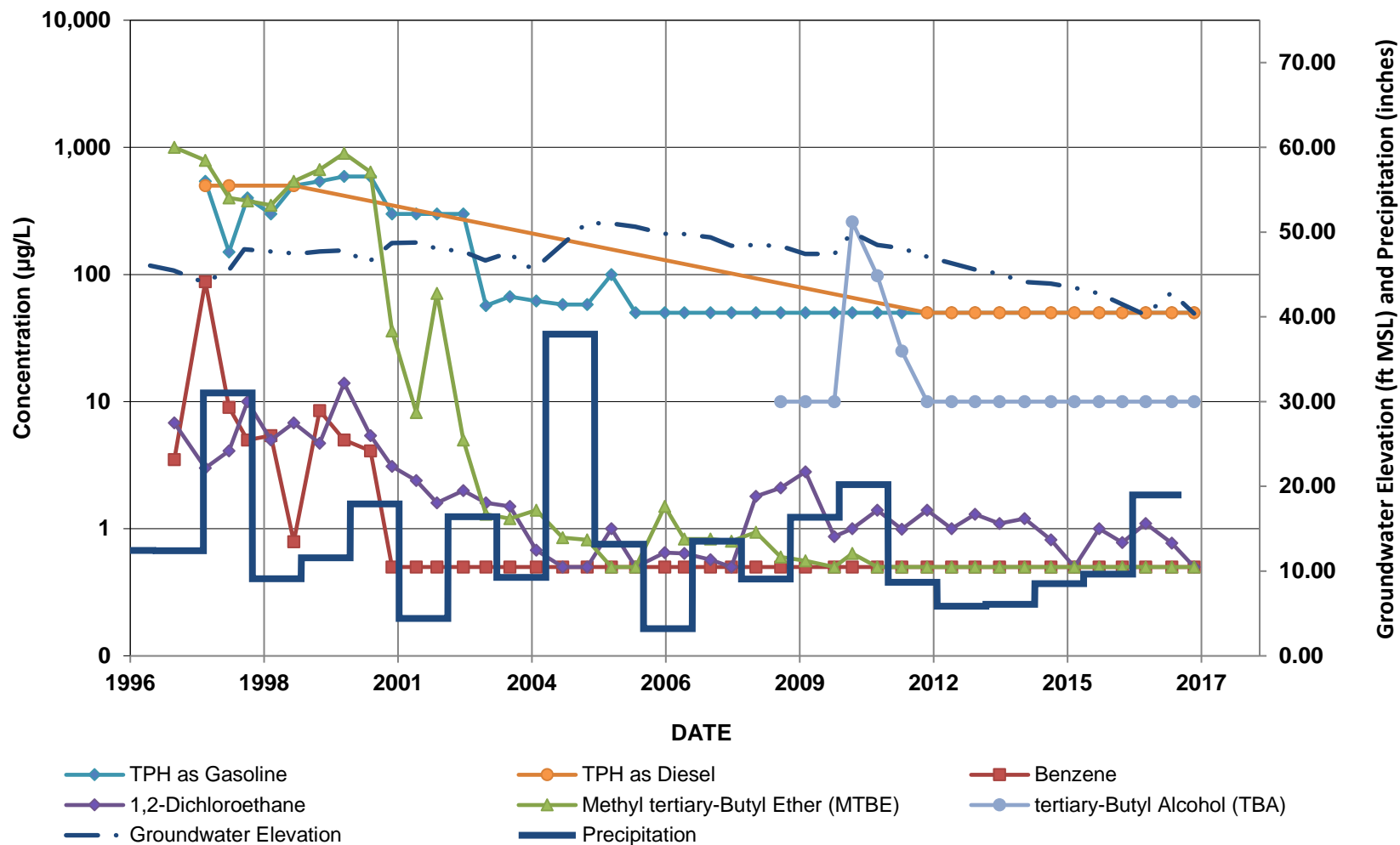
Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

MW-6



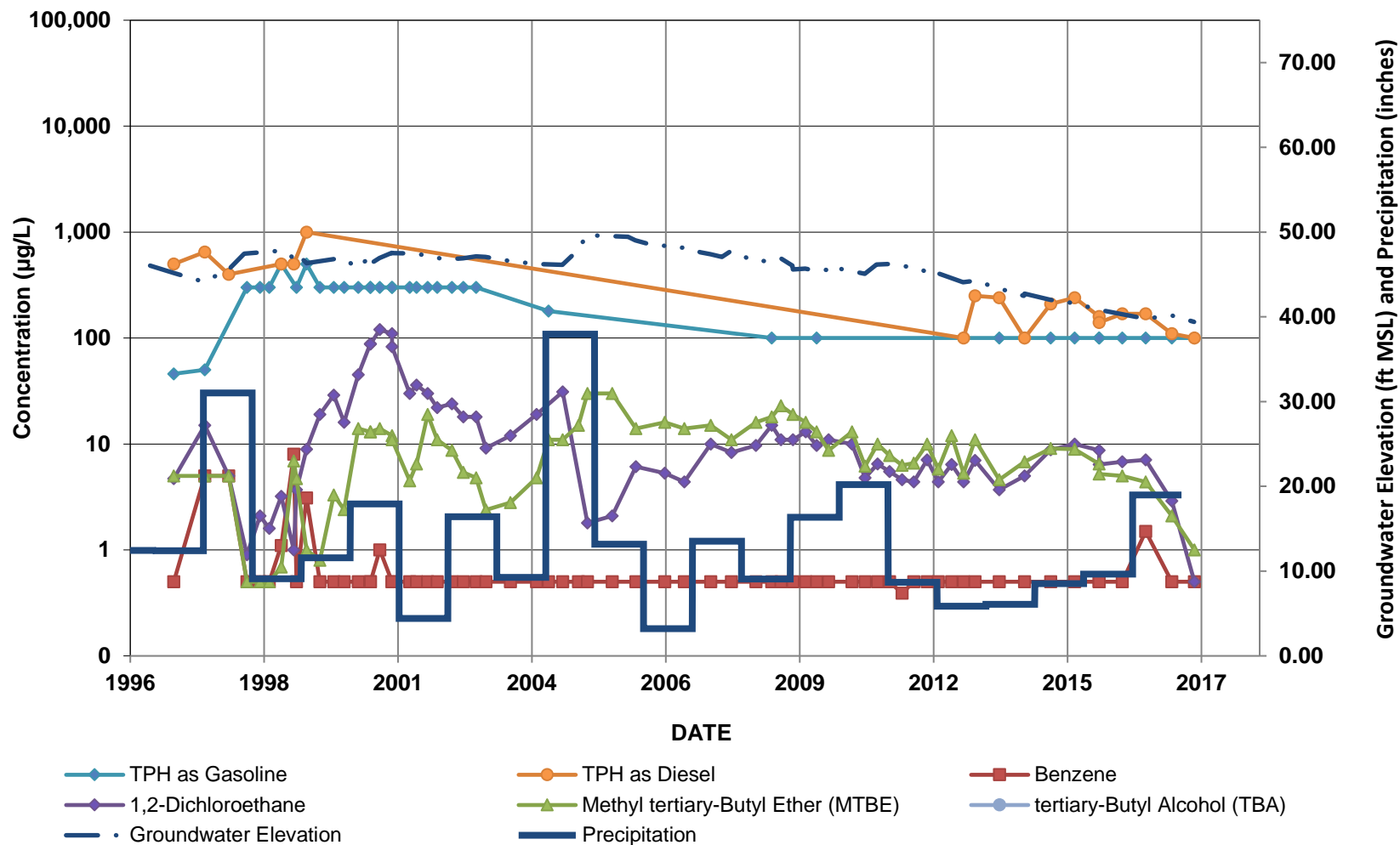
Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

MW-7



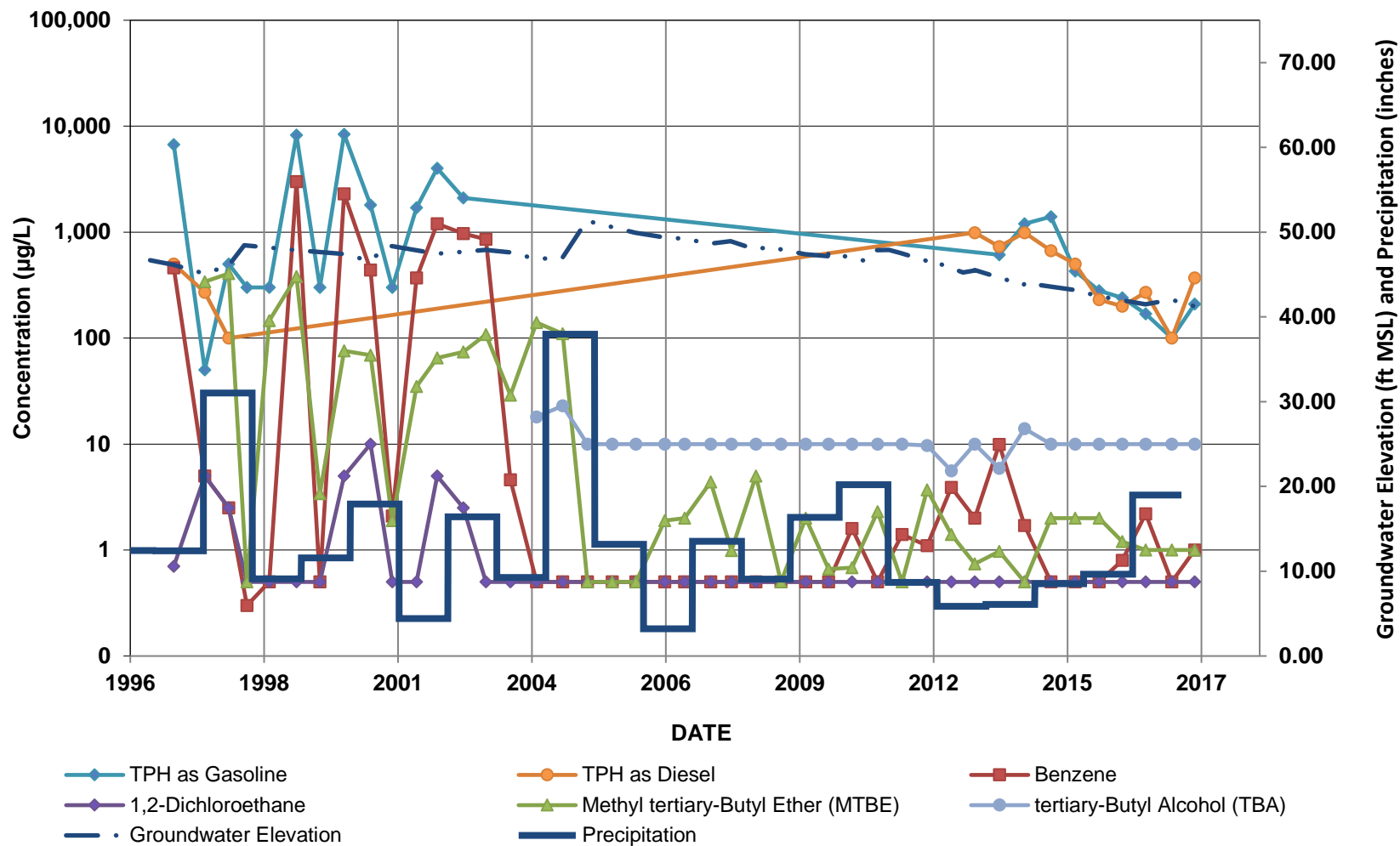
Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

MW-22(MID)



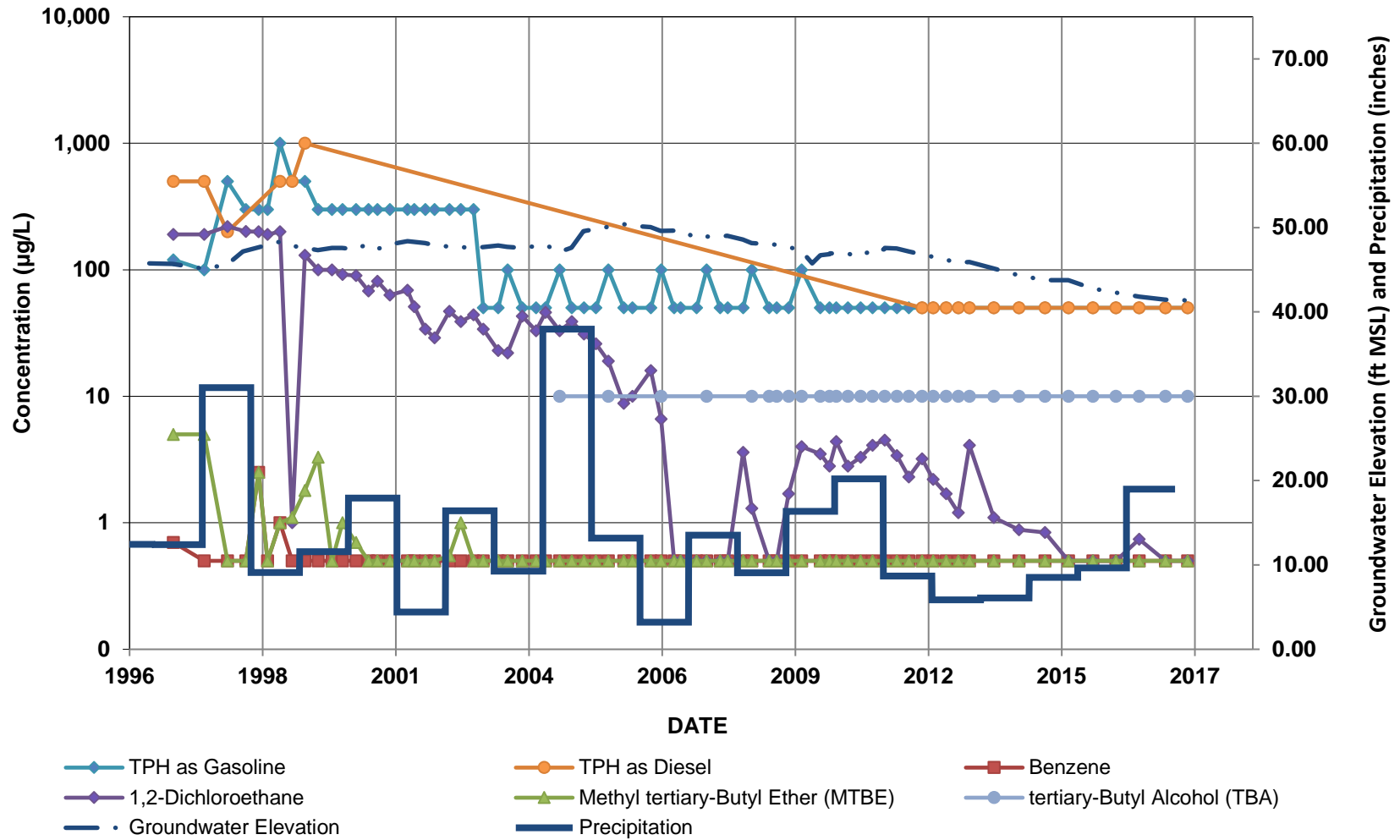
Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

MW-26



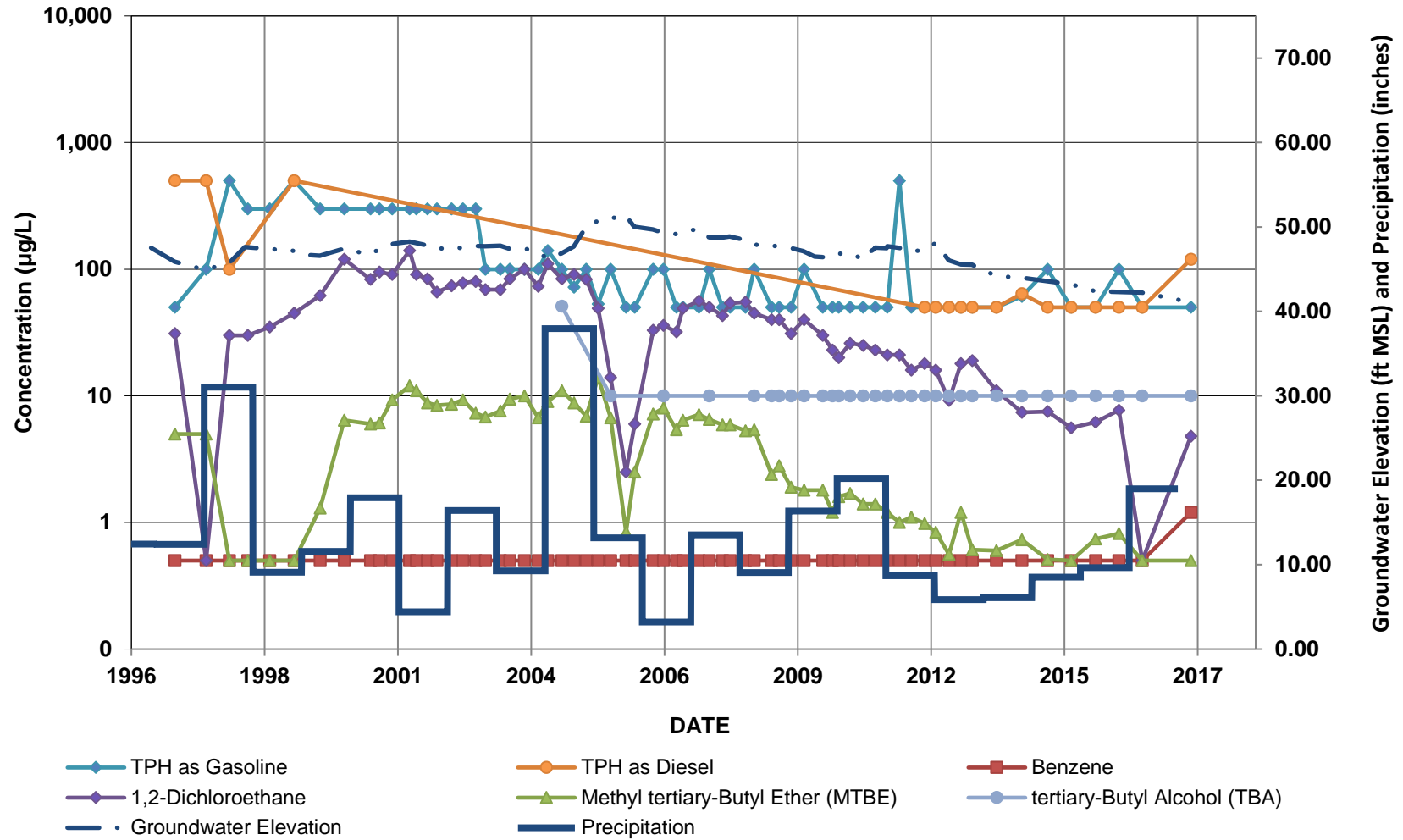
Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

WCW-3



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

WCW-7

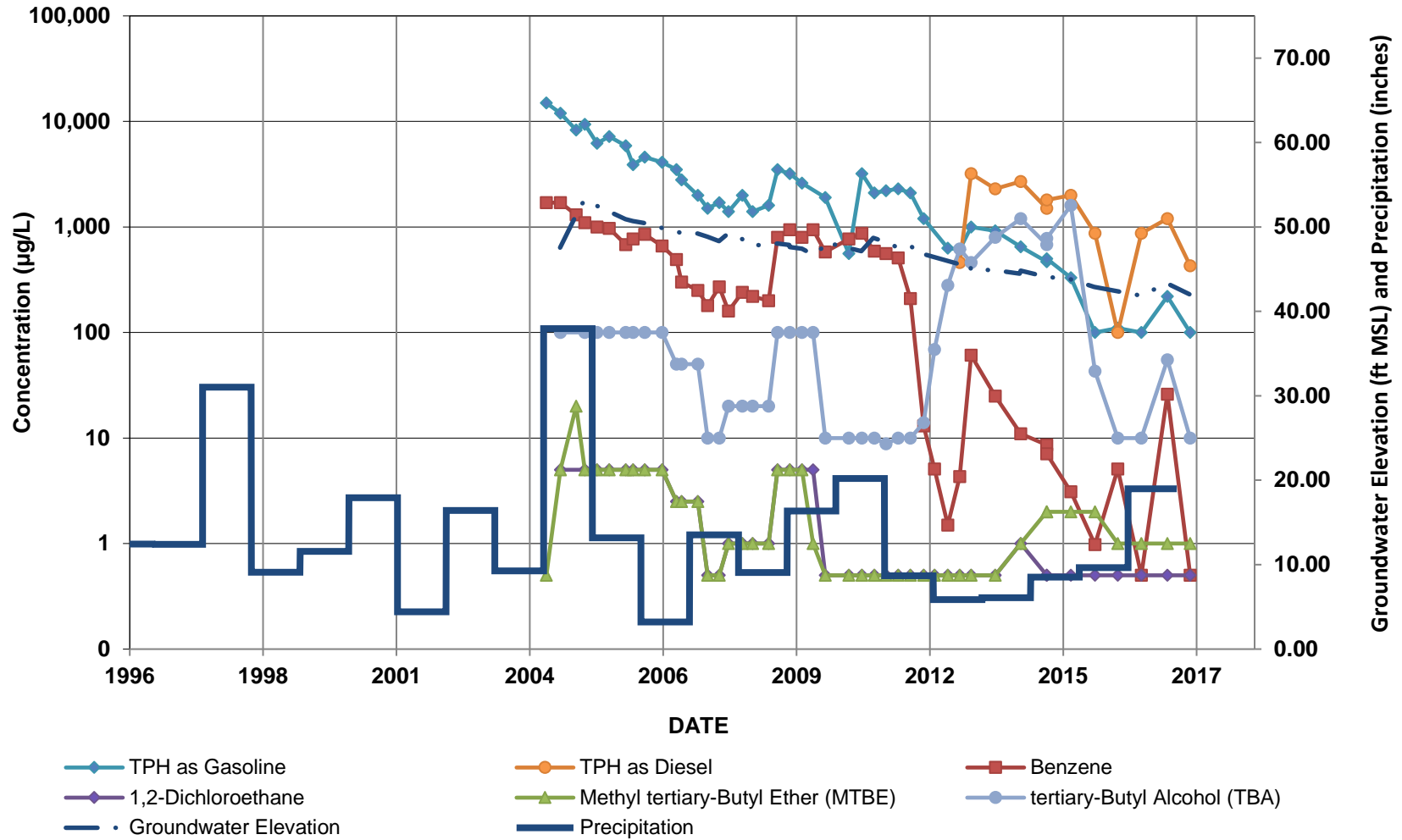


Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

NORTHEAST ON-SITE/HOLIFIELD PARK AREAS

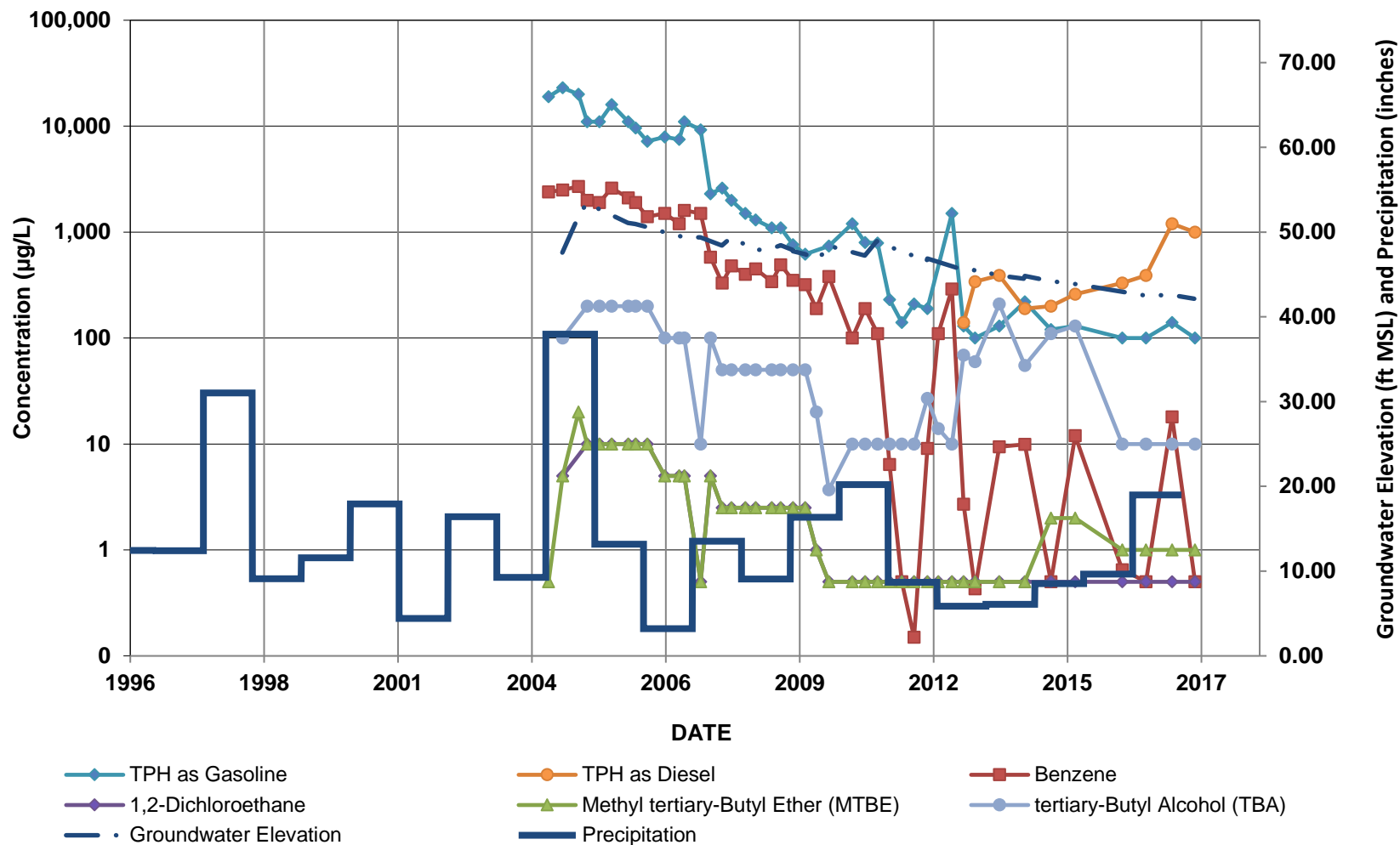
GMW-60, GMW-61, GMW-62, GMW-67, GMW-68, AND GMW-69

GMW-60



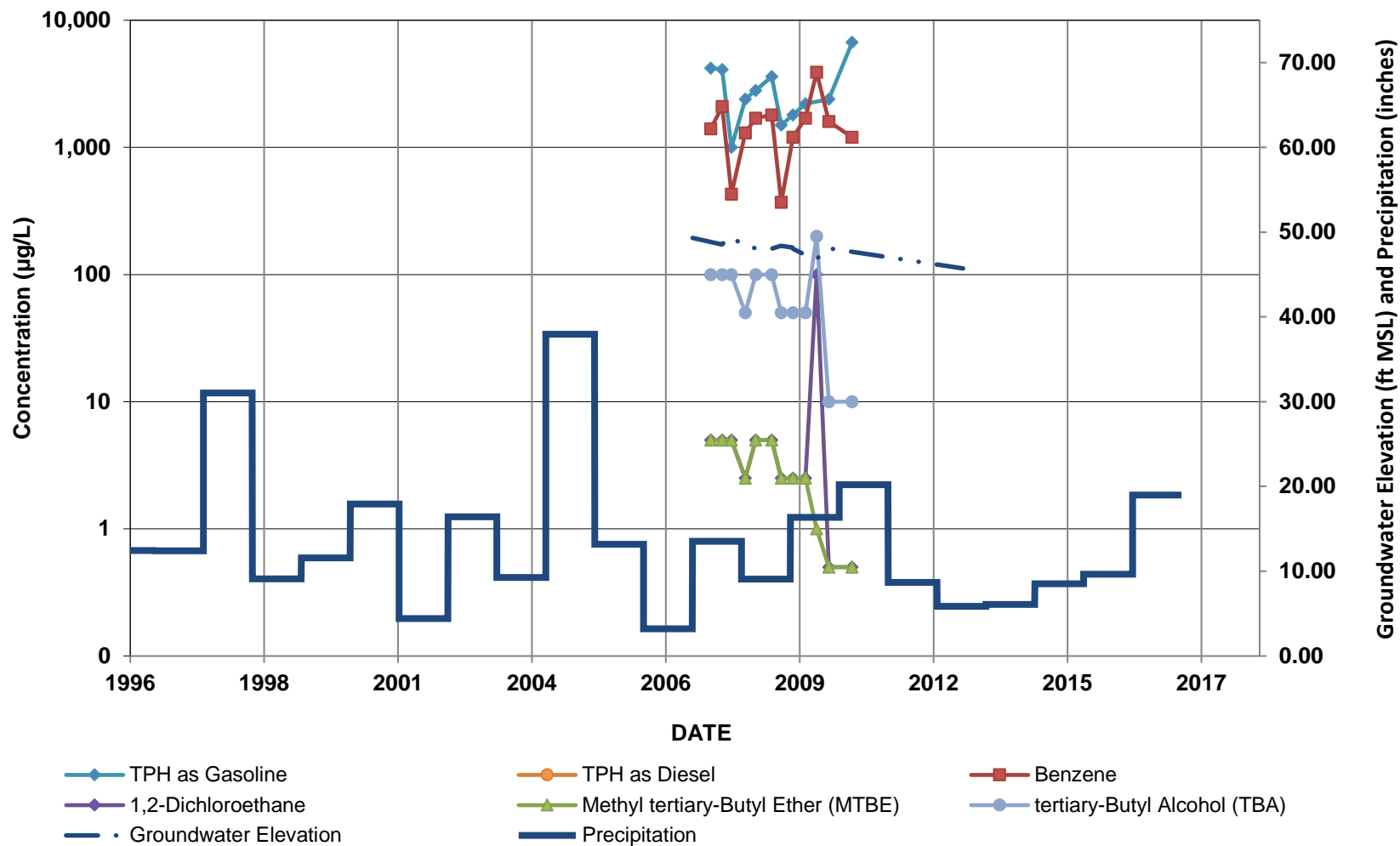
Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

GMW-61



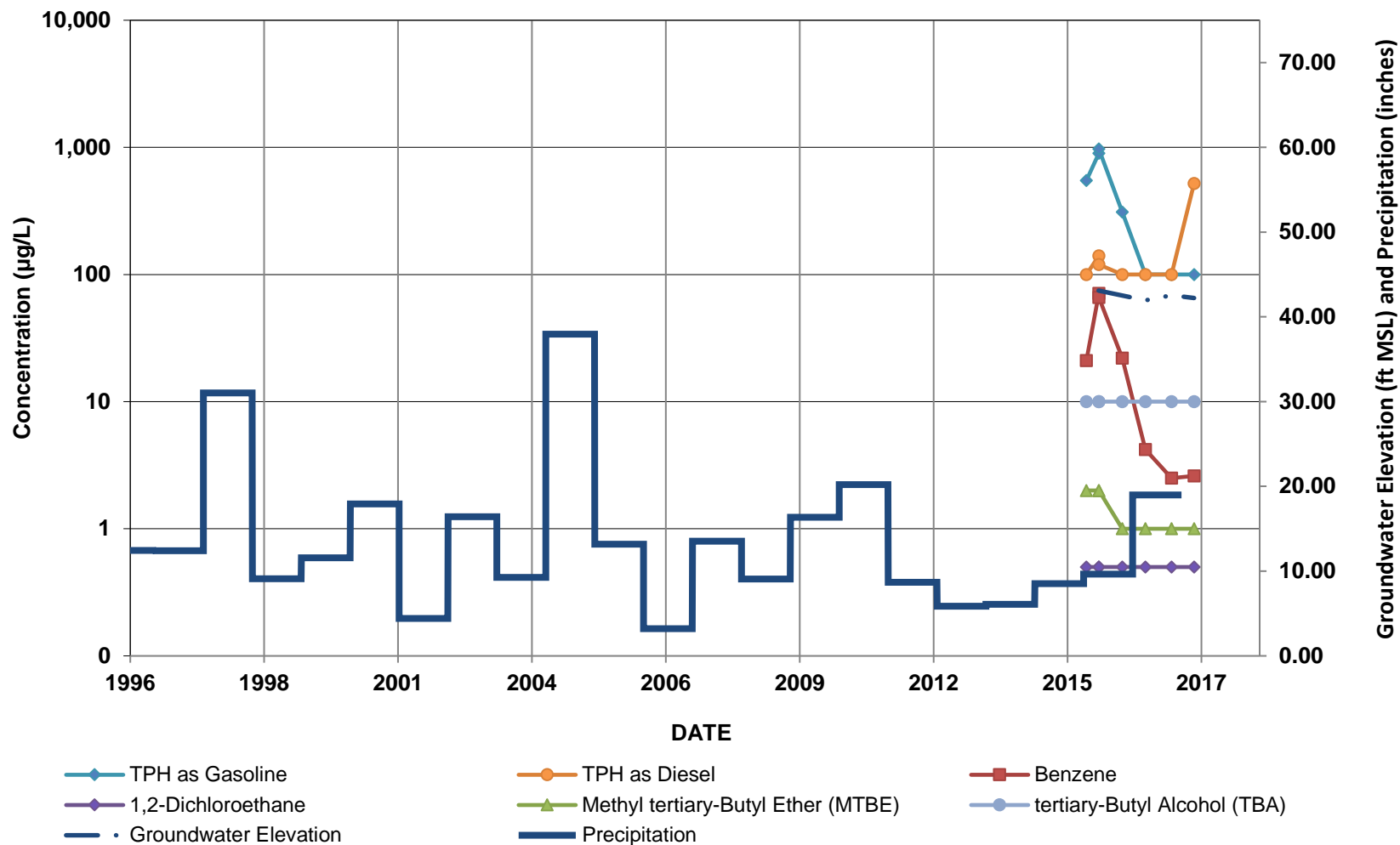
Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

GMW-62



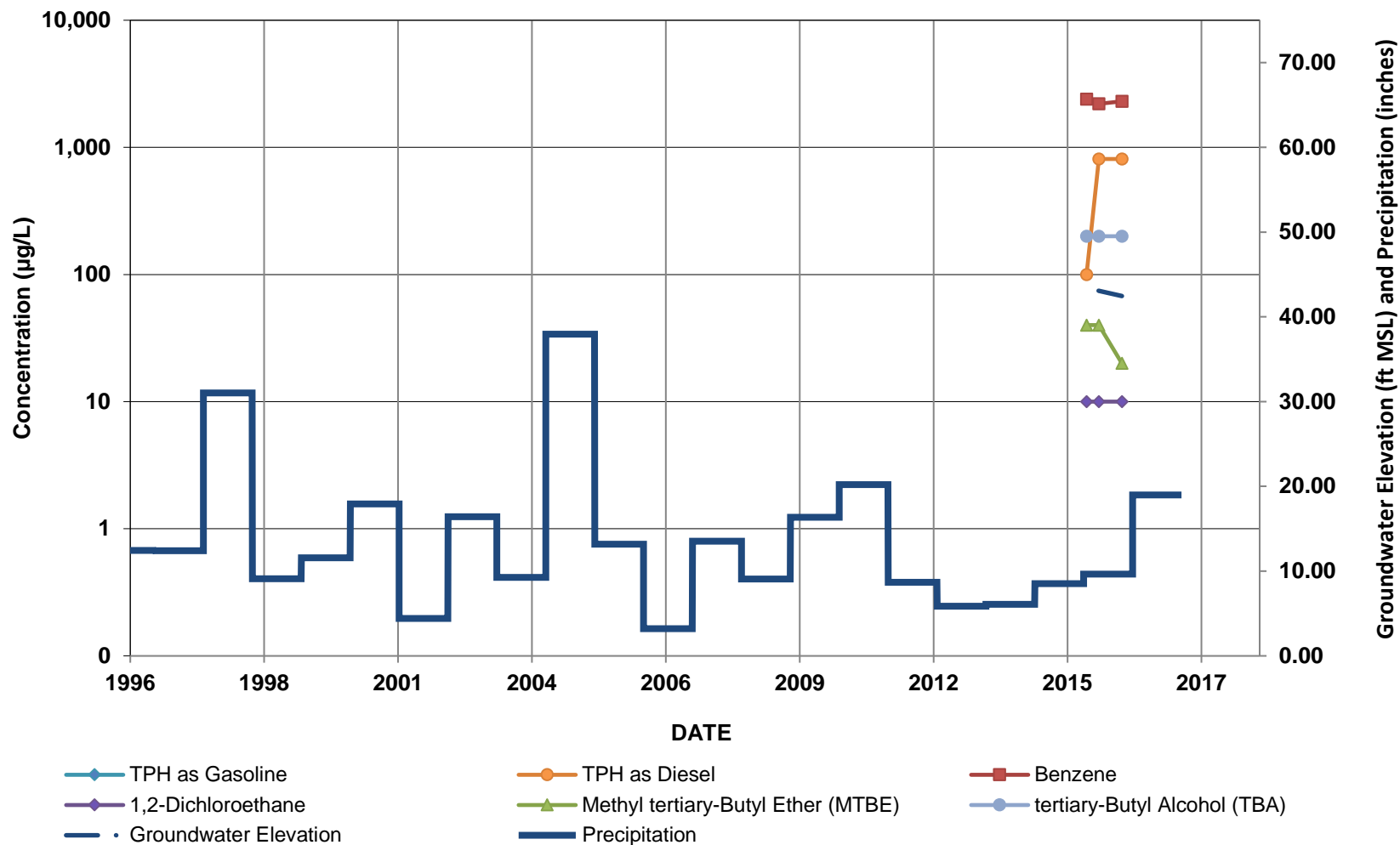
Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

GMW-67



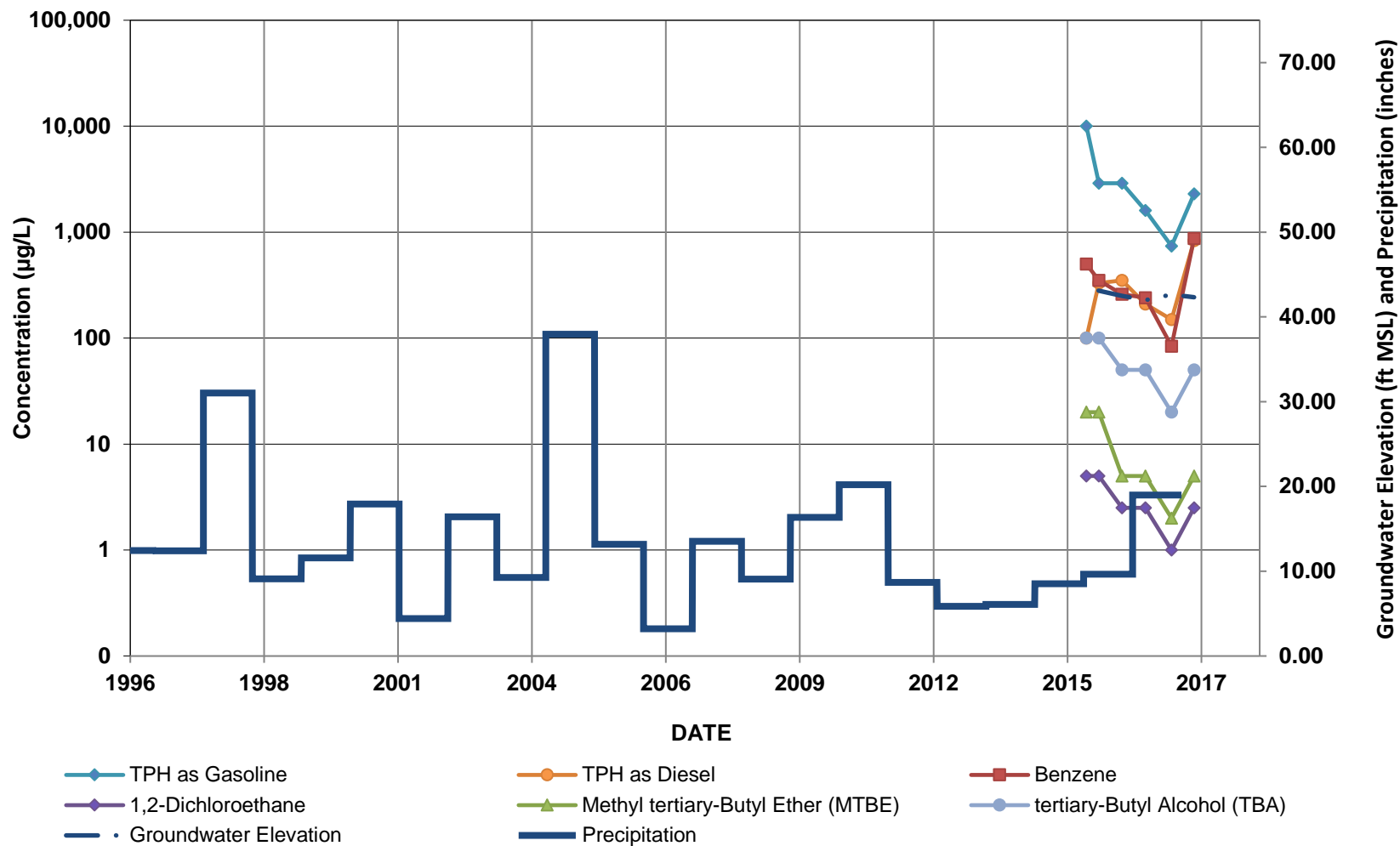
Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

GMW-68



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

GMW-69

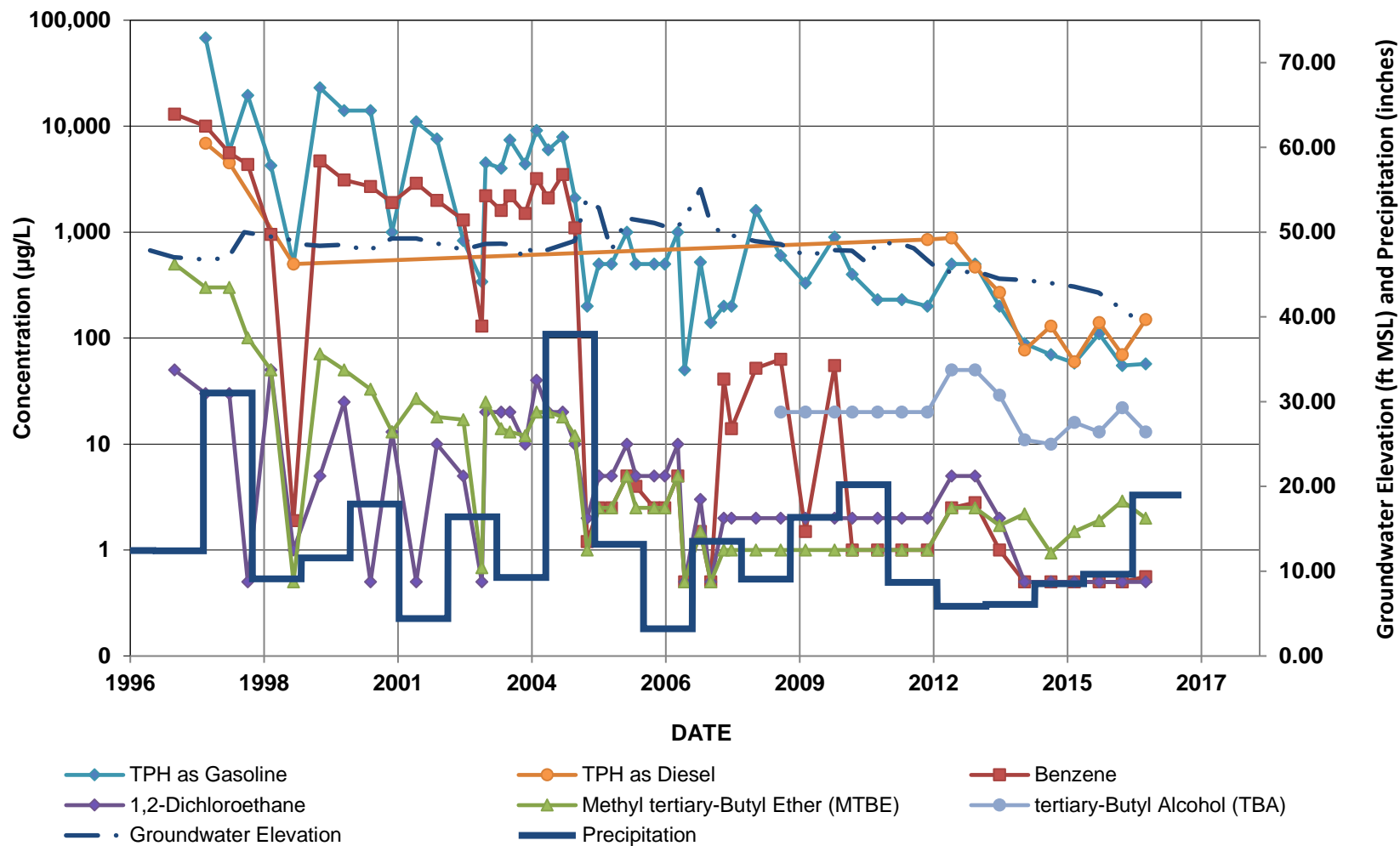


Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

FORMER TRUCK-FUELING AREA

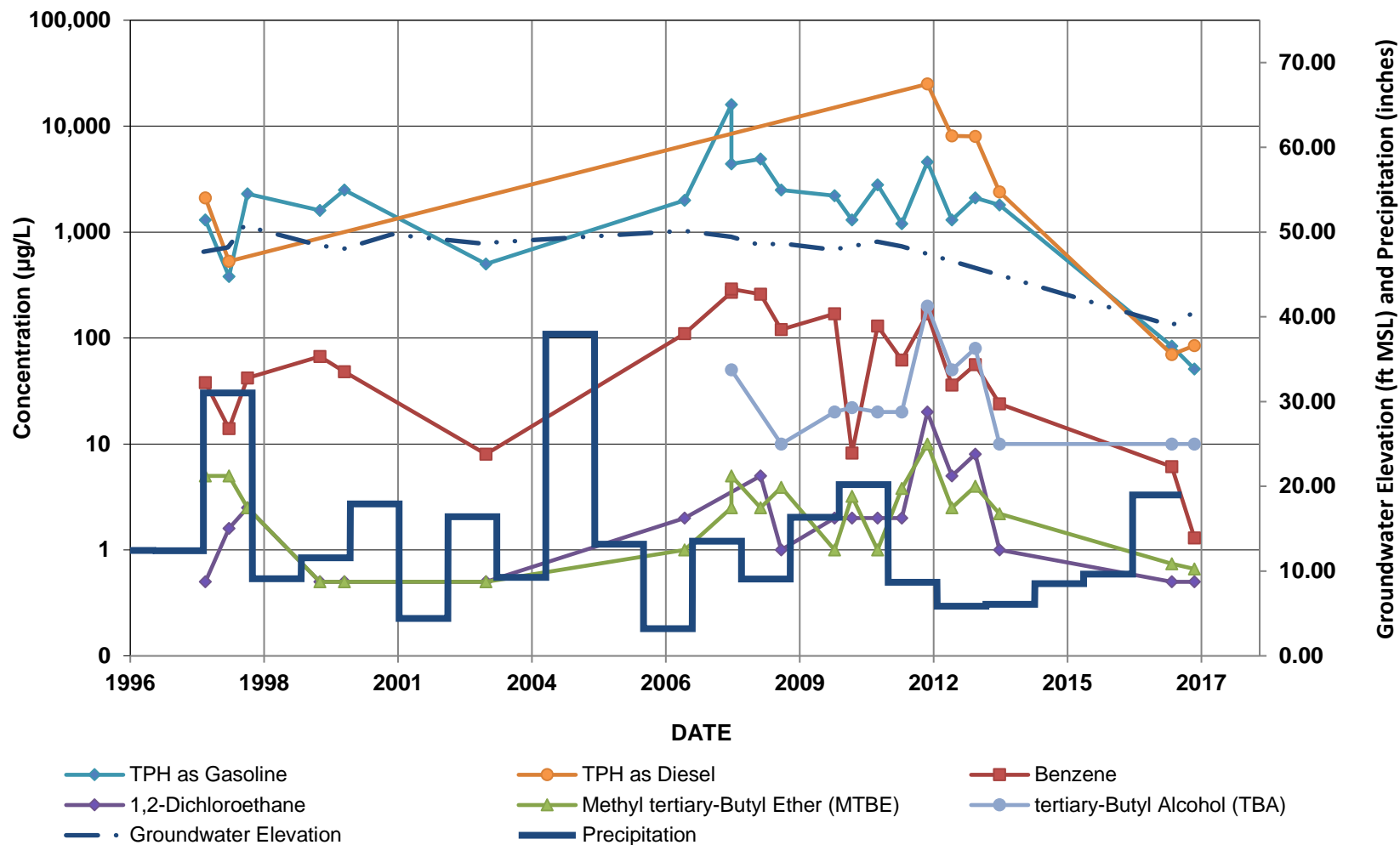
GMW-1, GMW-4, GMW-10, AND MW-15

GMW-1



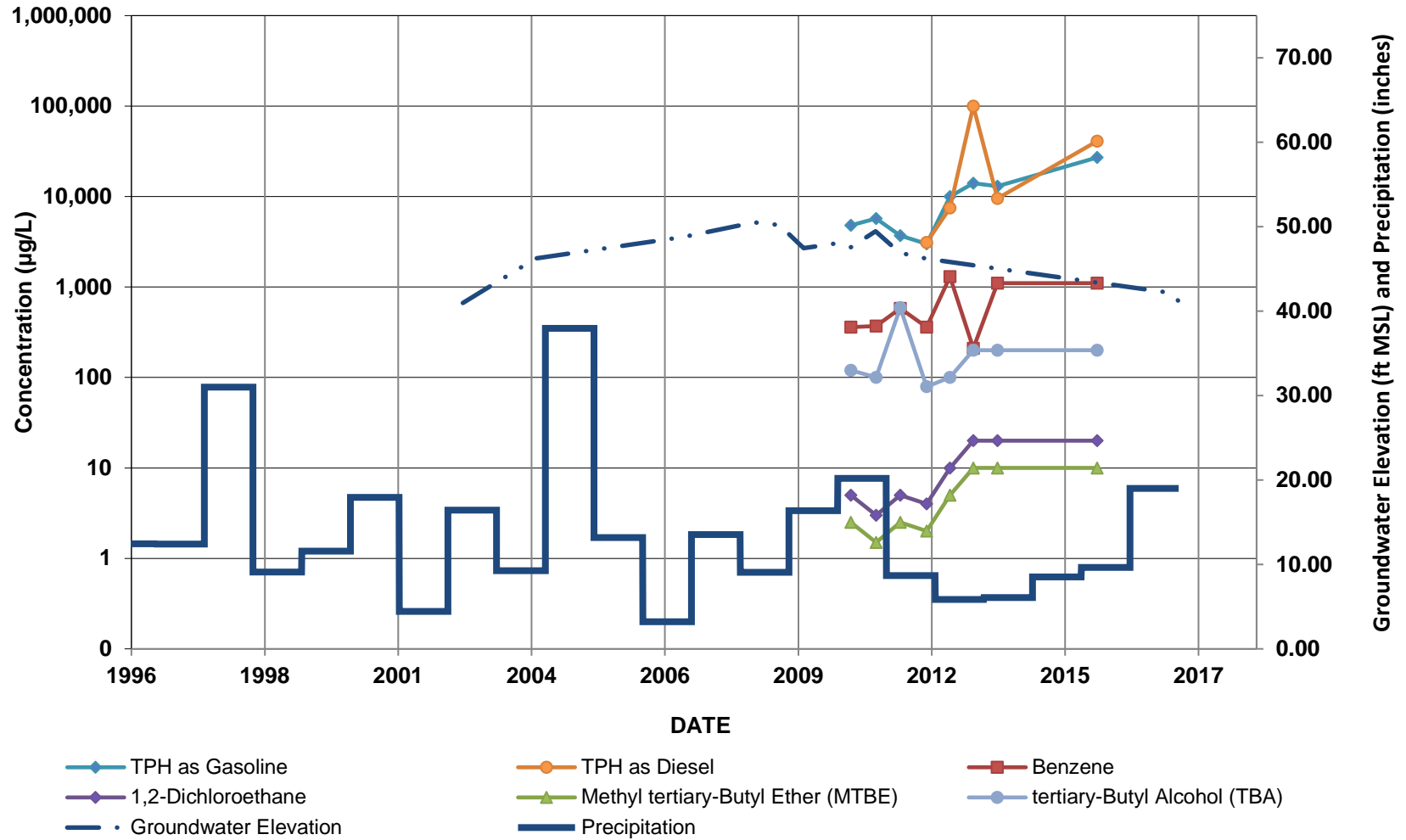
Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

GMW-4/GMW-4R



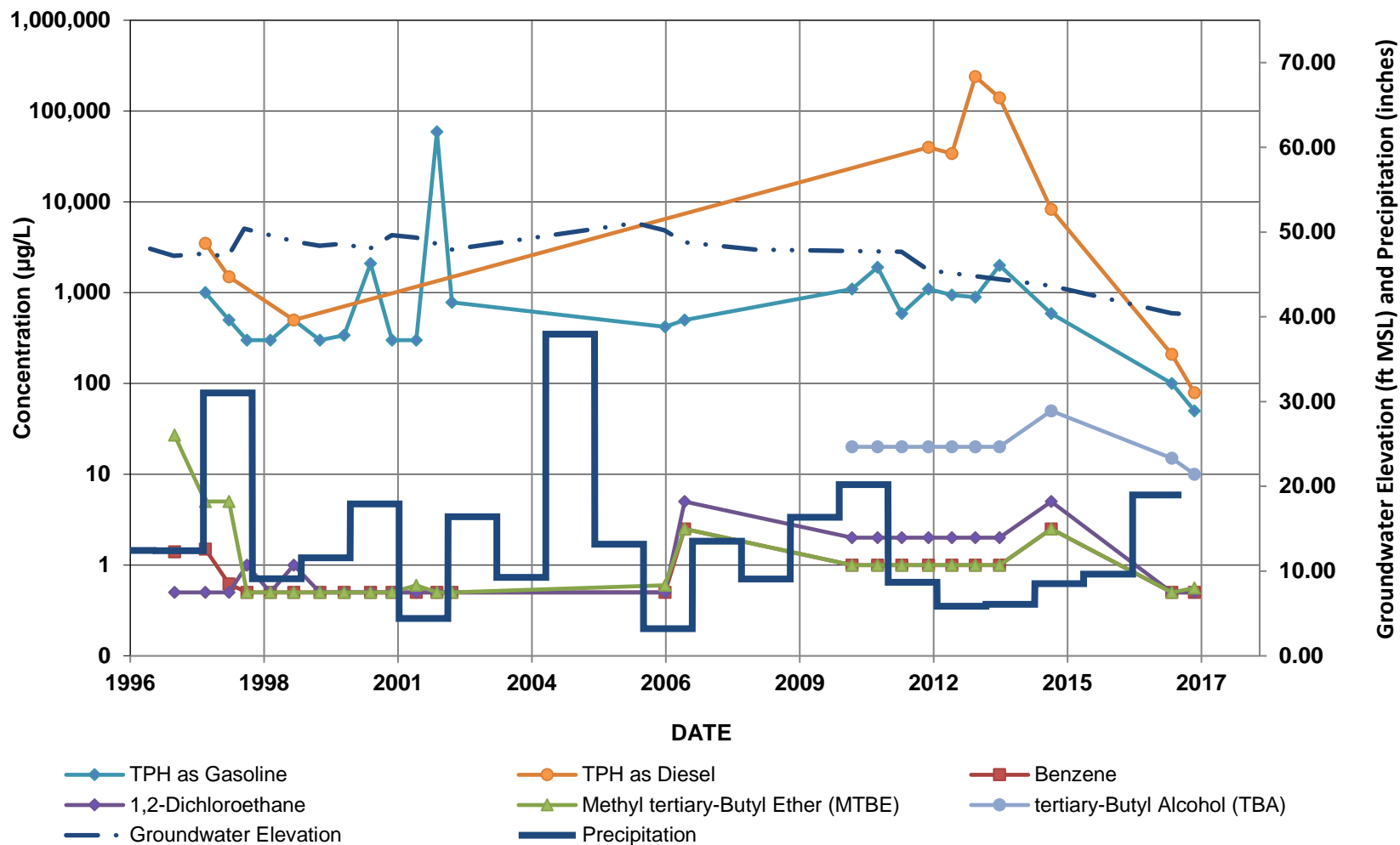
Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

GMW-10



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

MW-15/MW-15R

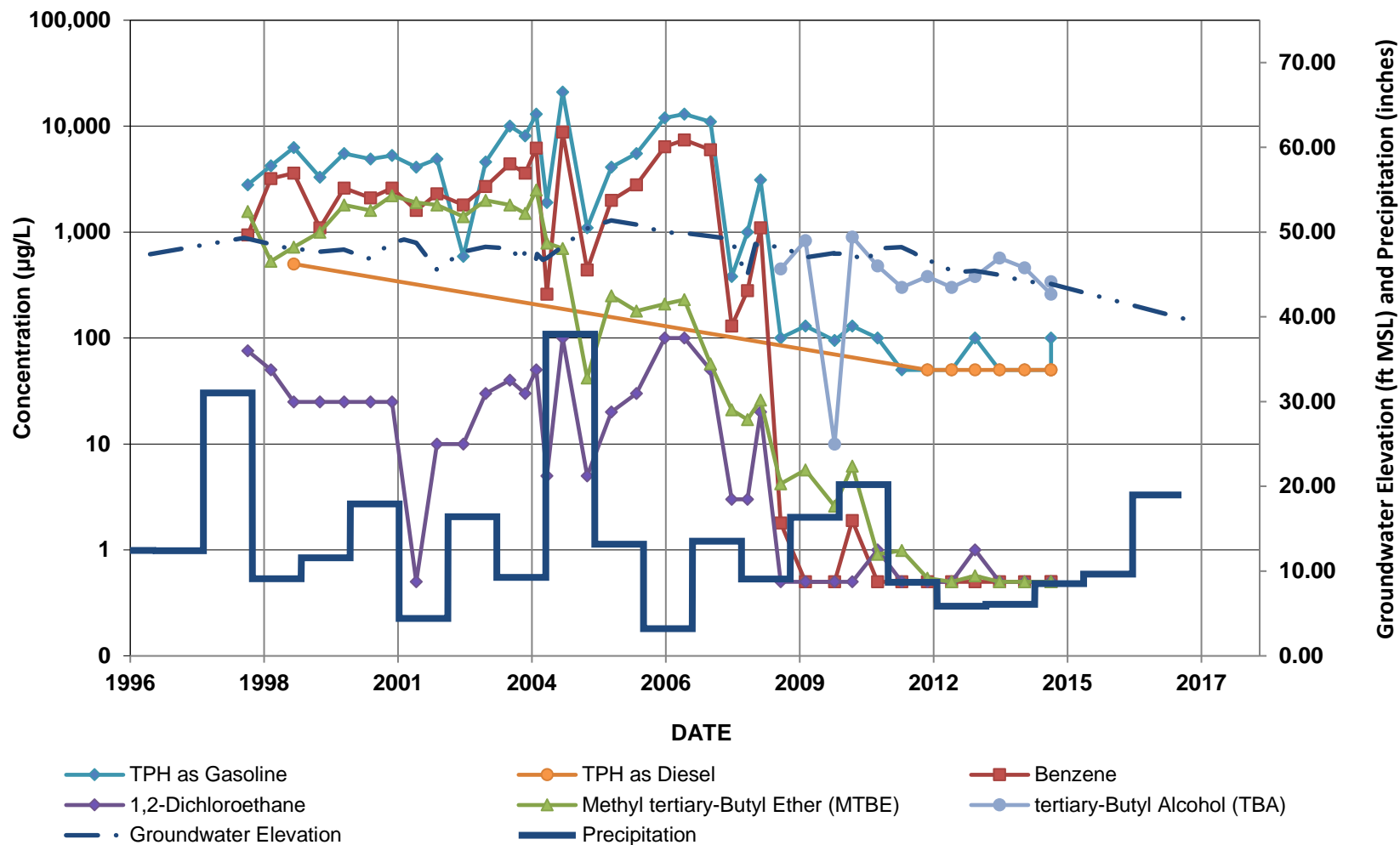


Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

SOUTH-CENTRAL AREA

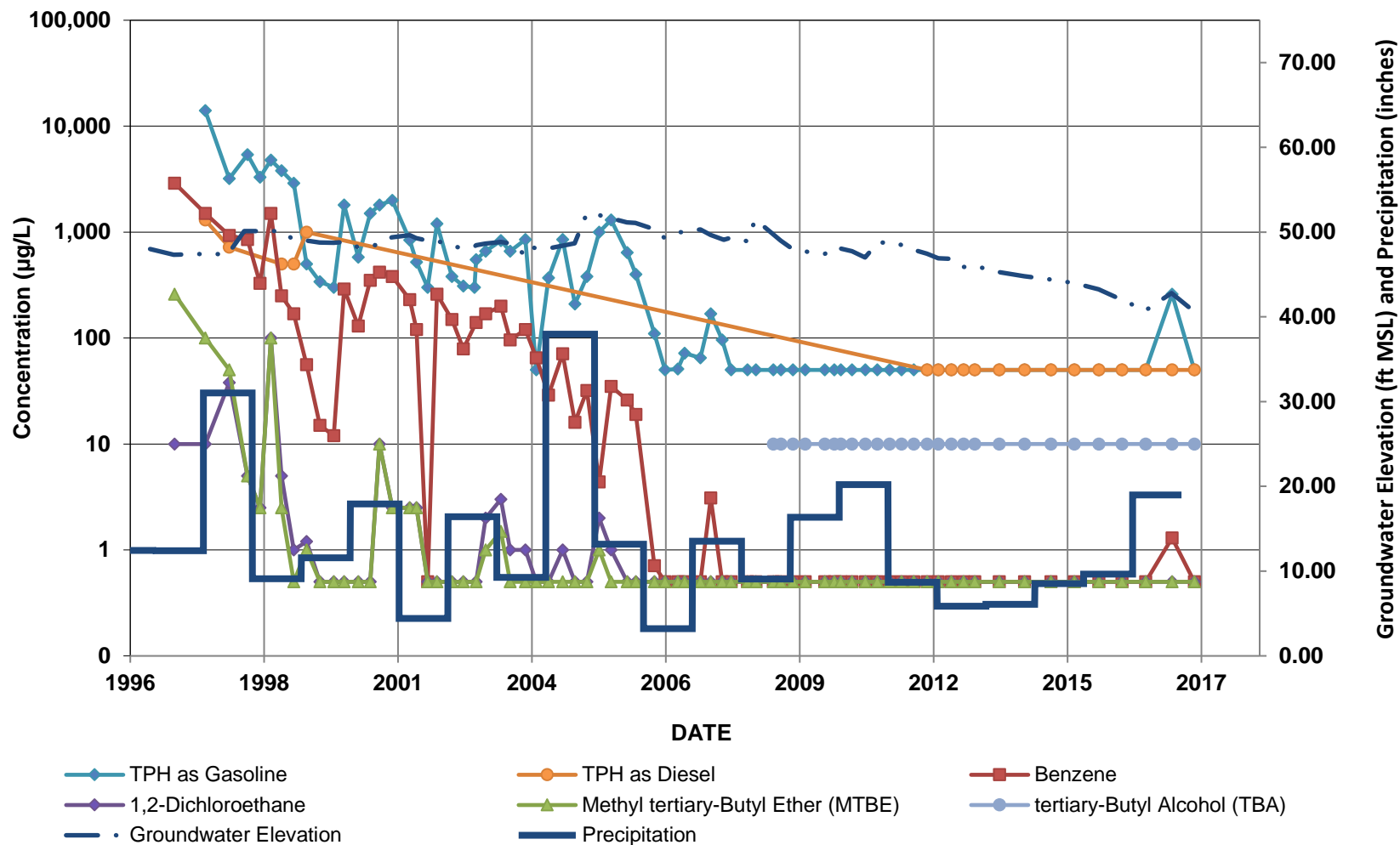
**GMW-27, GMW-O-3, GMW-O-5, GMW-O-9, GMW-O-10, GMW-O-14, GWR-1, HL-2, MW-7,
MW-20(MID), MW-SF-1, AND MW-SF-9**

GMW-27/GMW-27R



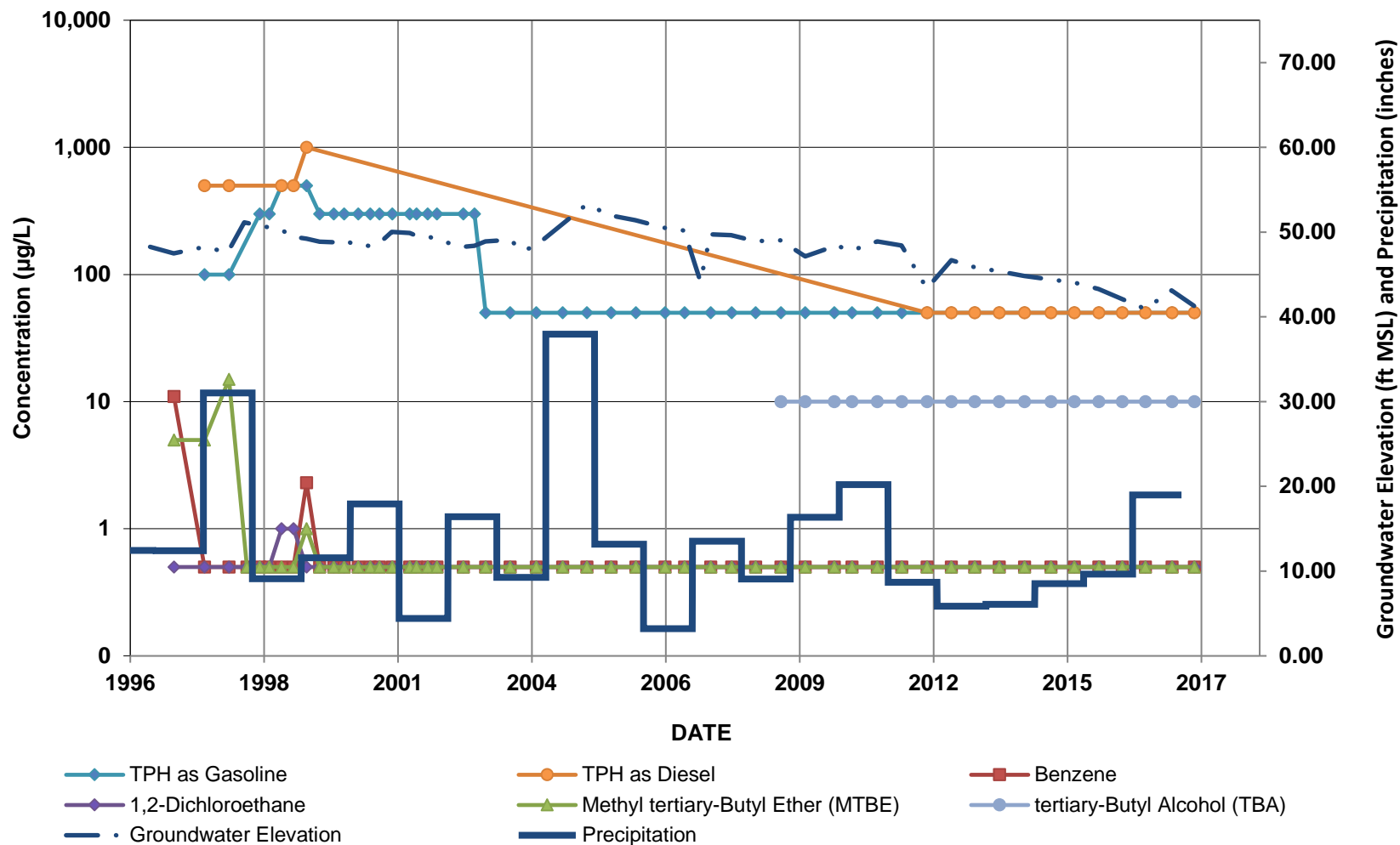
Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

GMW-O-3



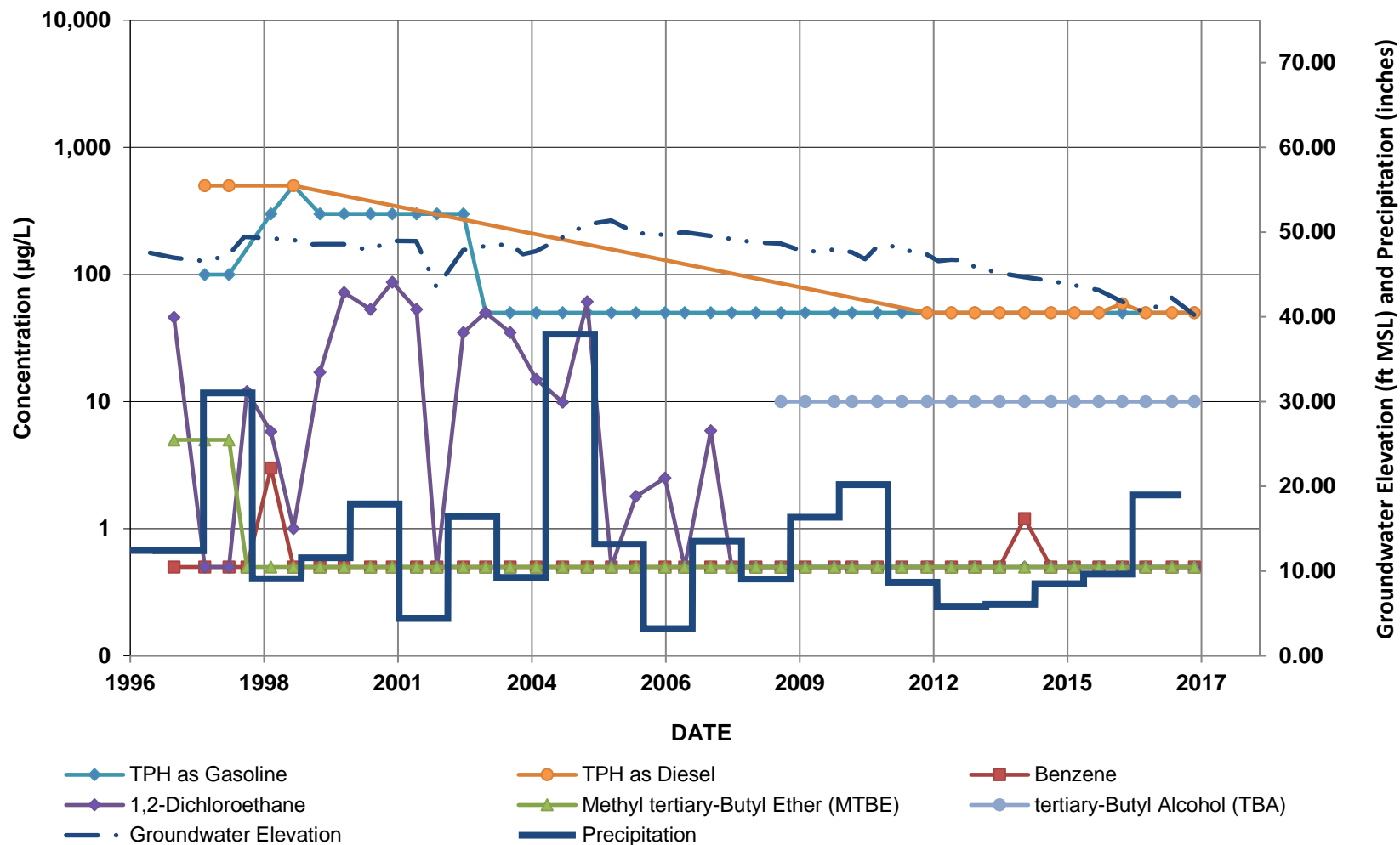
Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

GMW-O-5



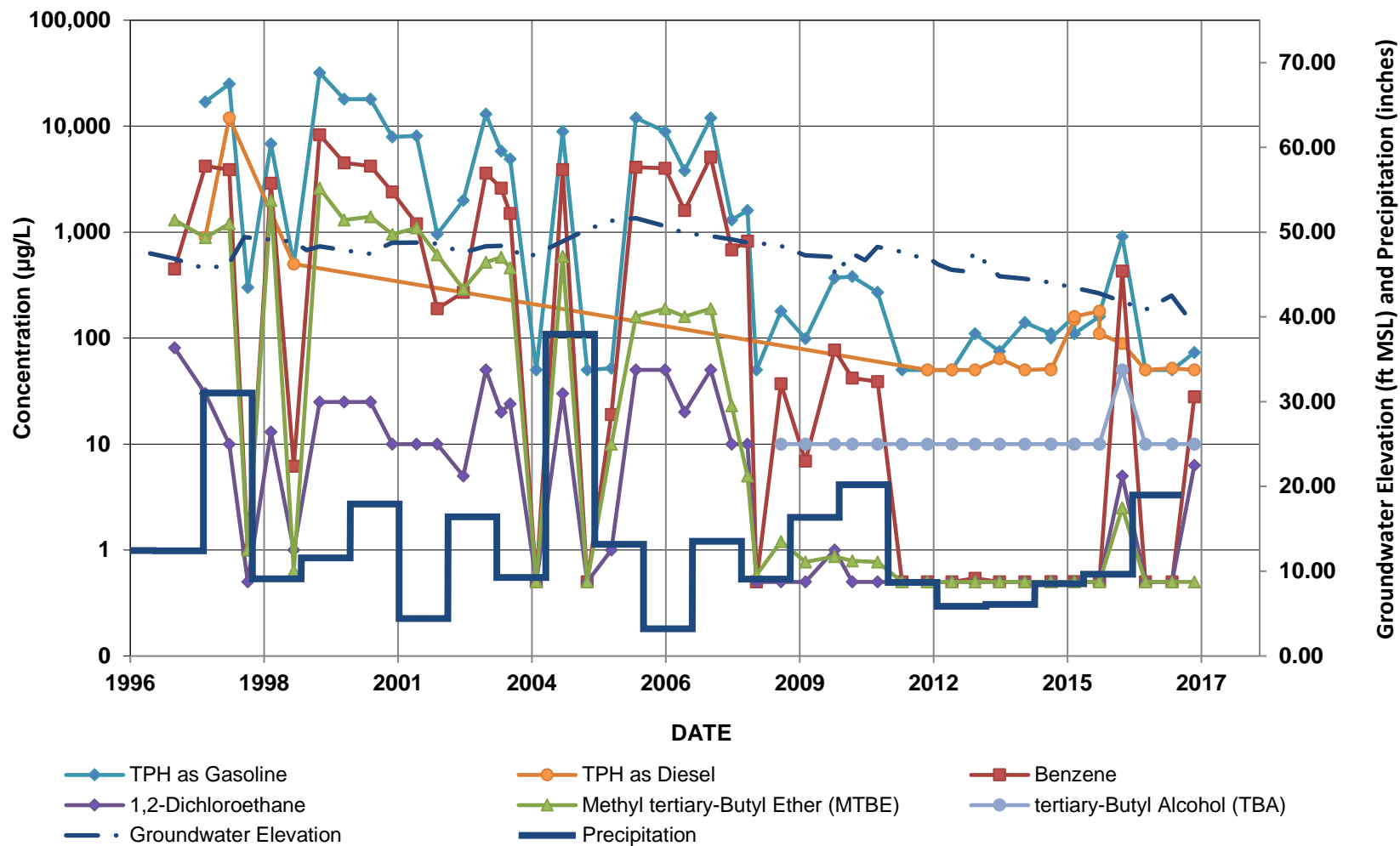
Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

GMW-O-9



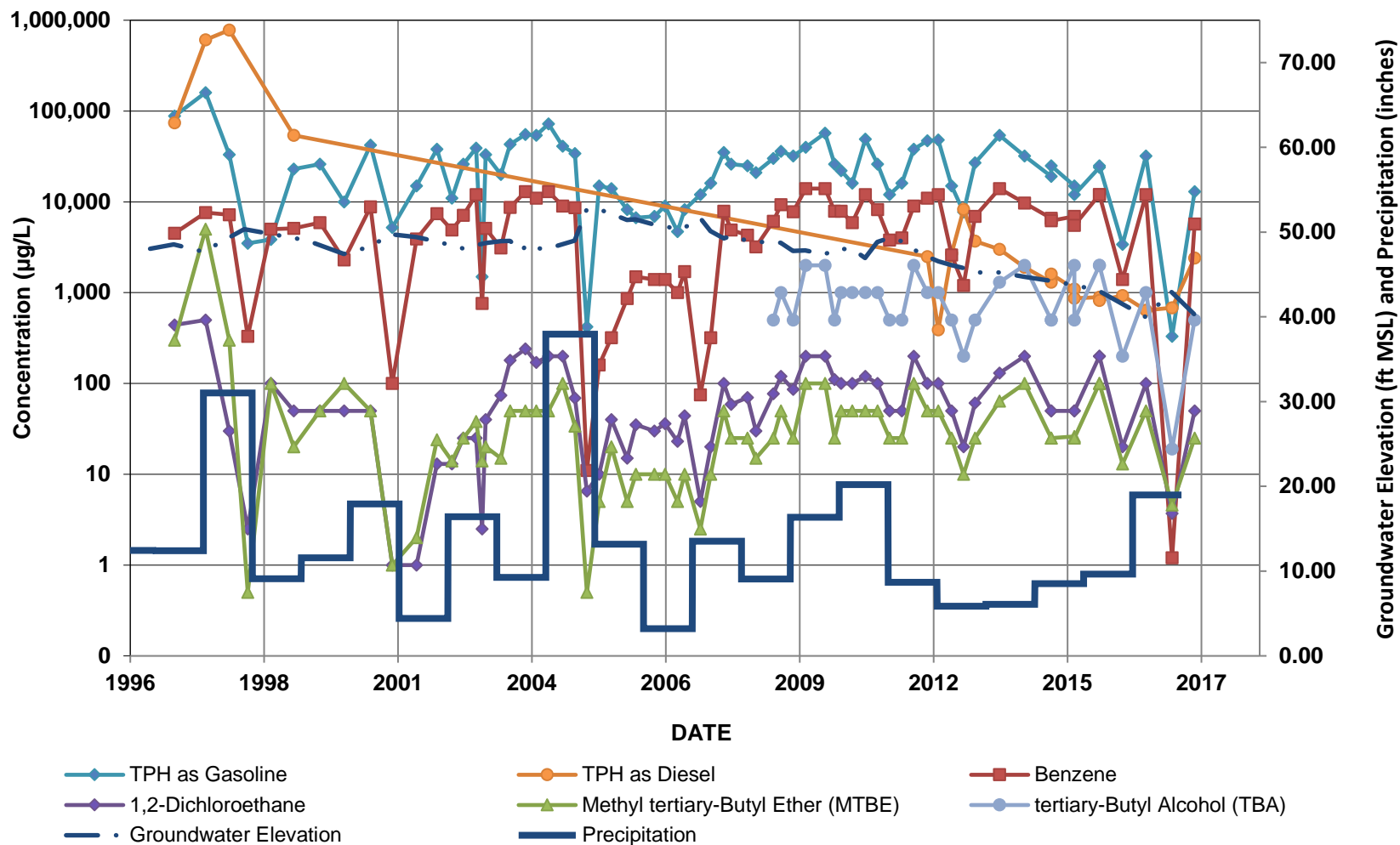
Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

GMW-O-10



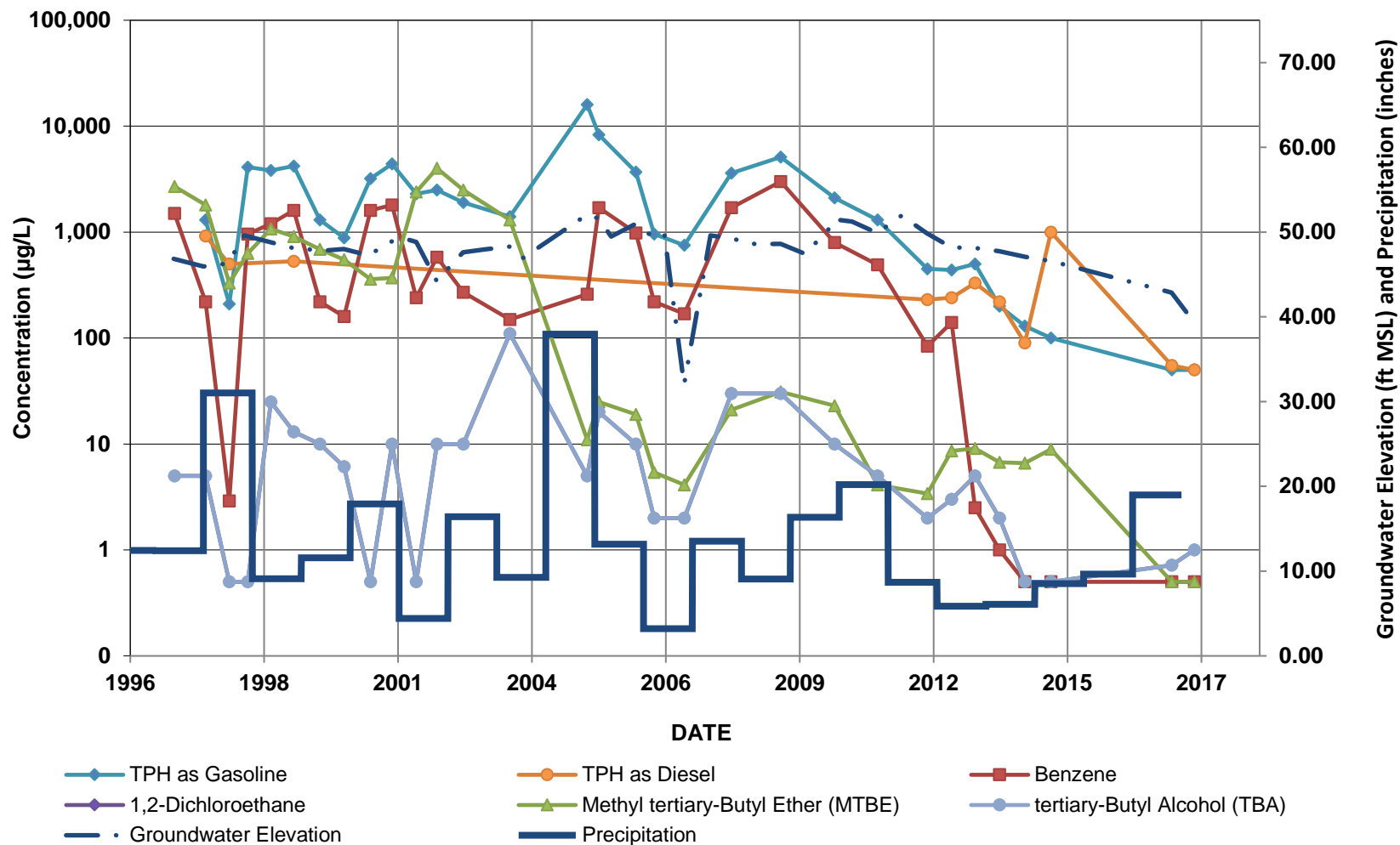
Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

GMW-0-14



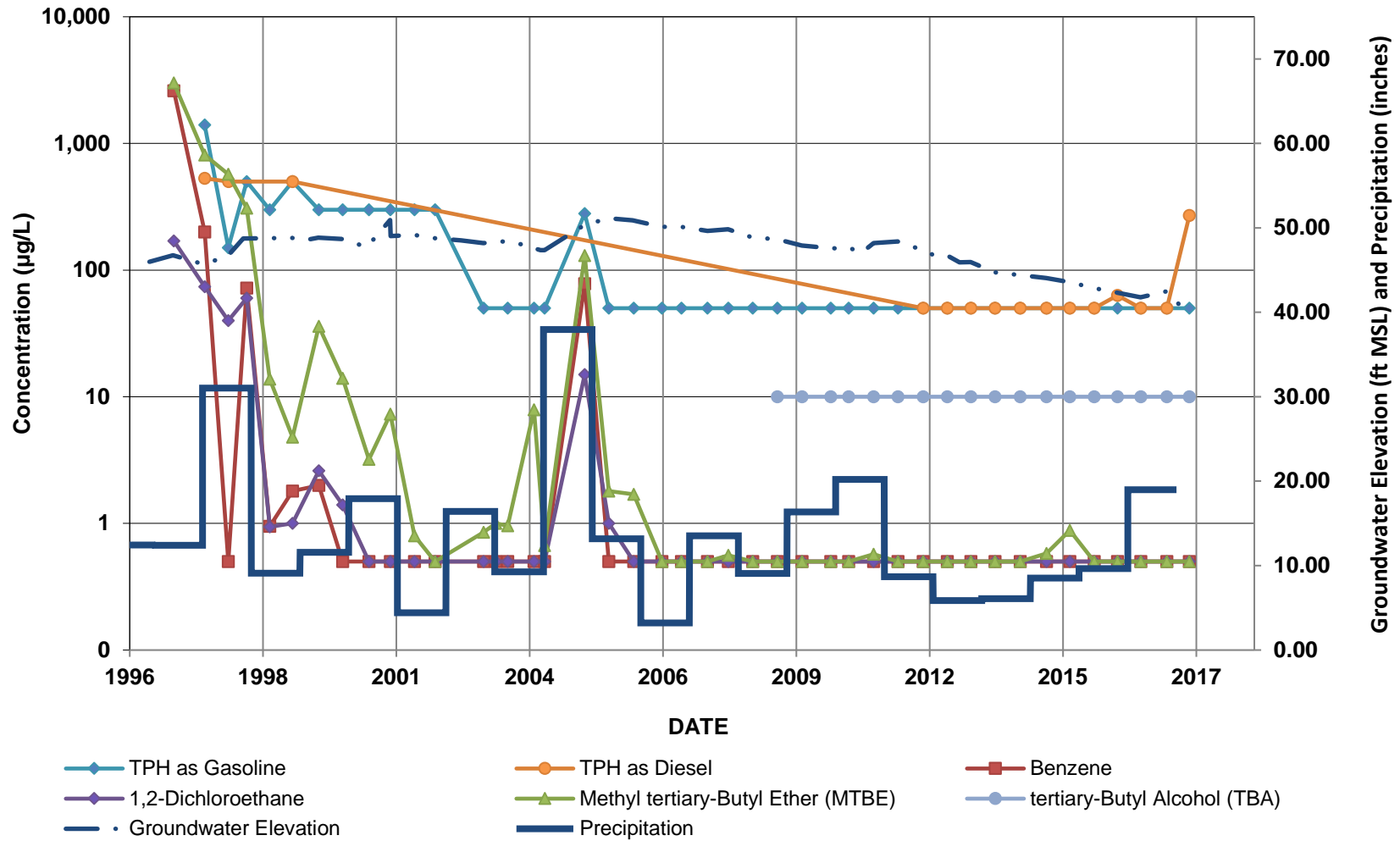
Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

GWR-1/GWR-1R



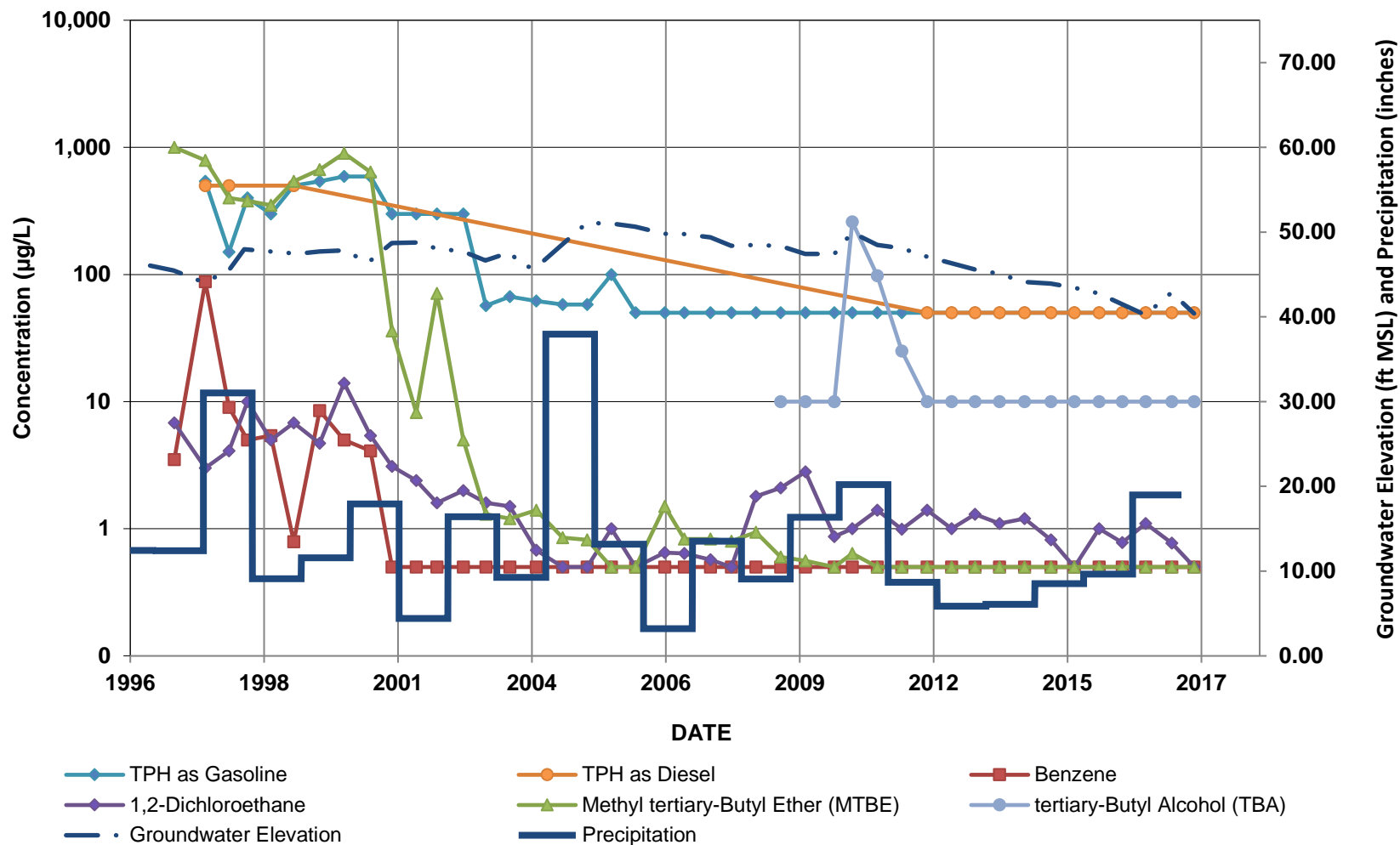
Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

HL-2



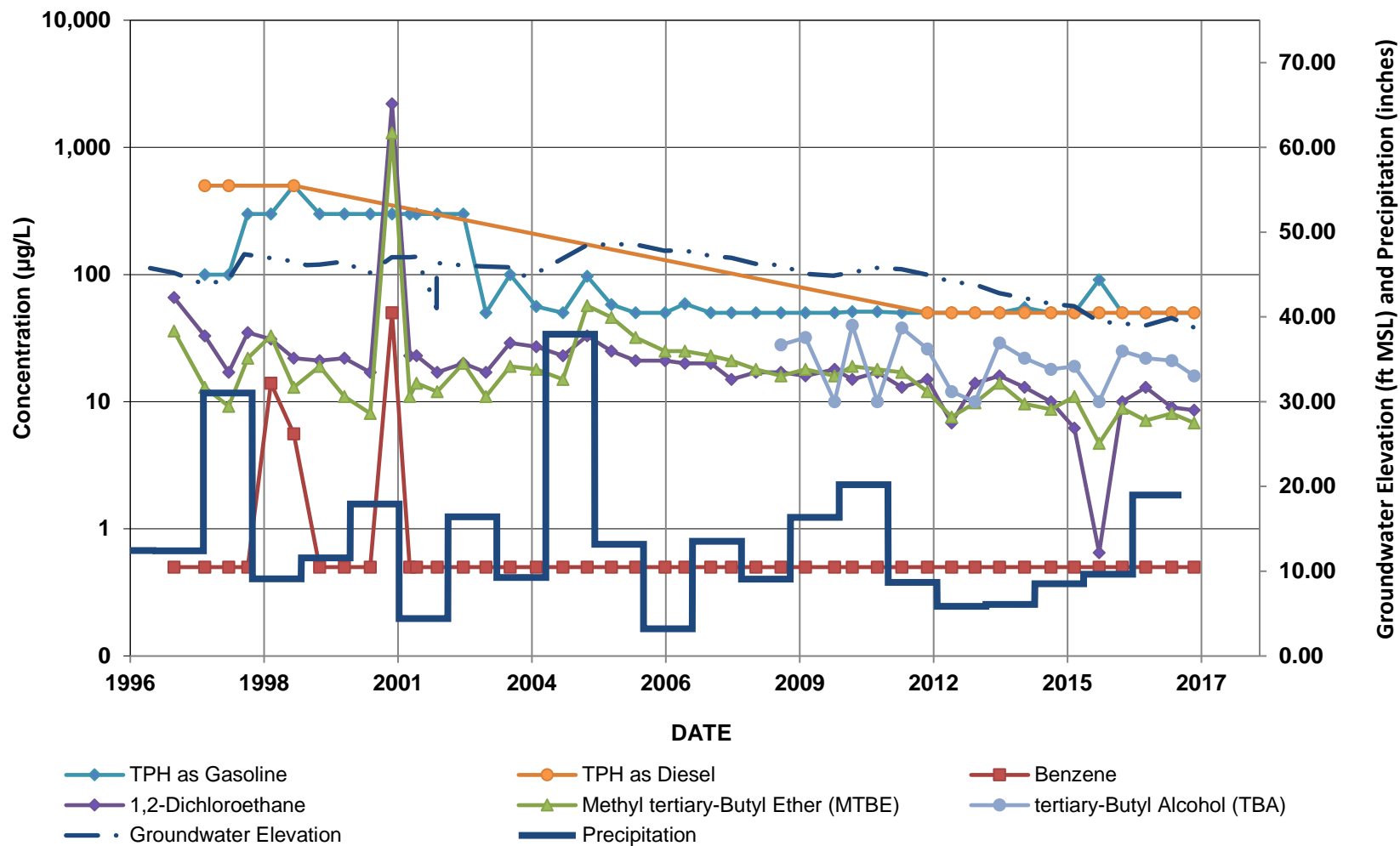
Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

MW-7



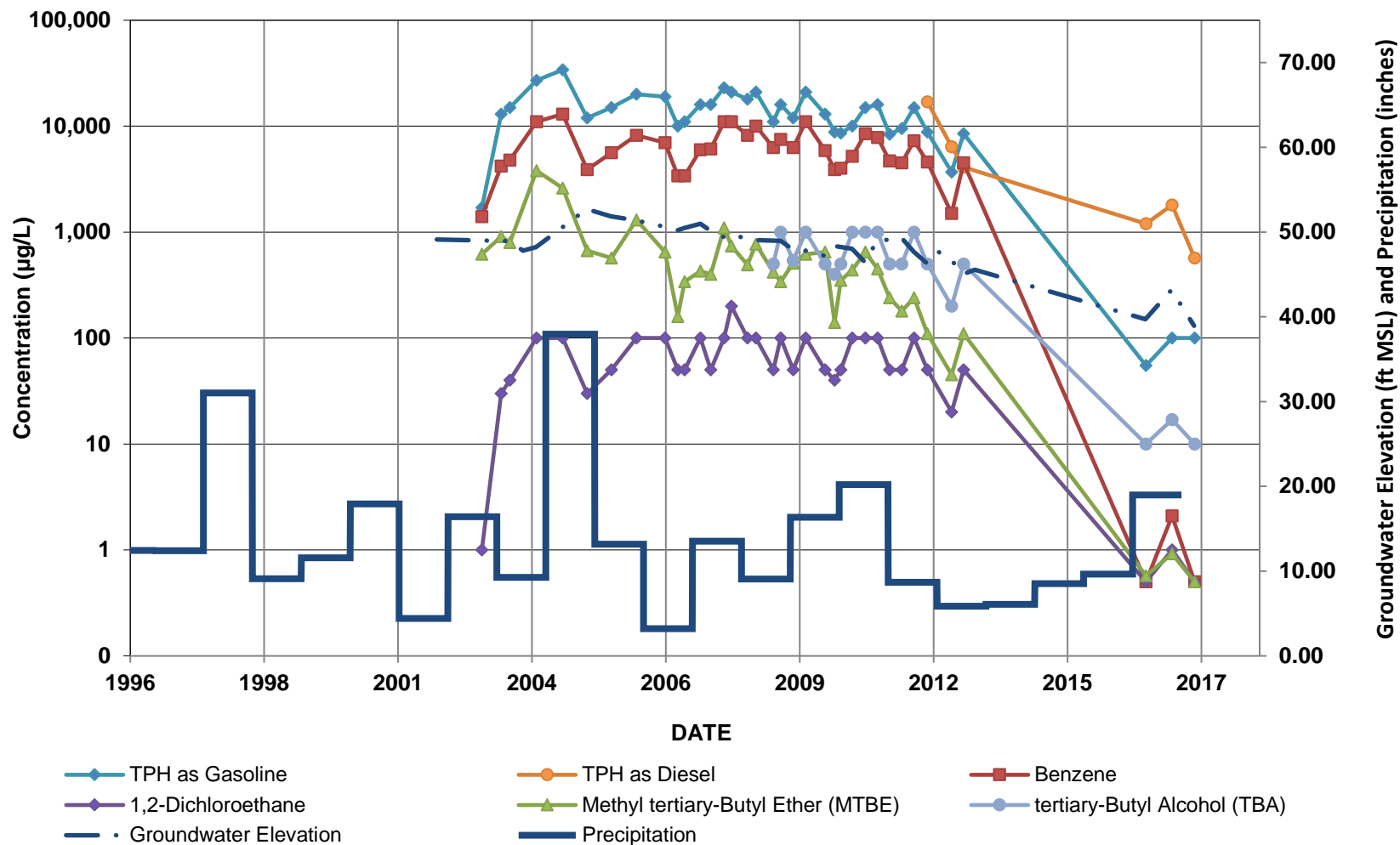
Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

MW-20(MID)



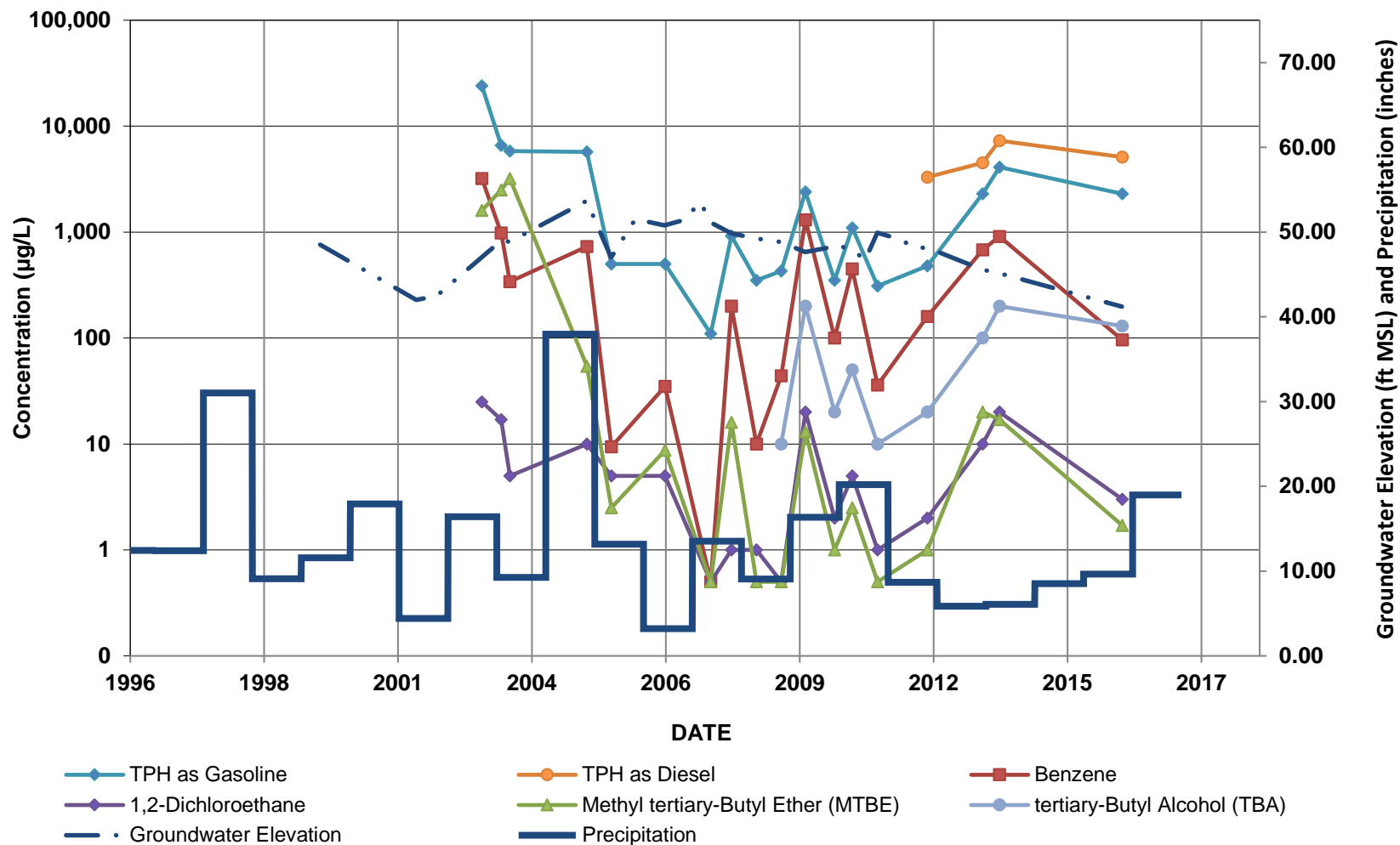
Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

MW-SF-1



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

MW-SF-9

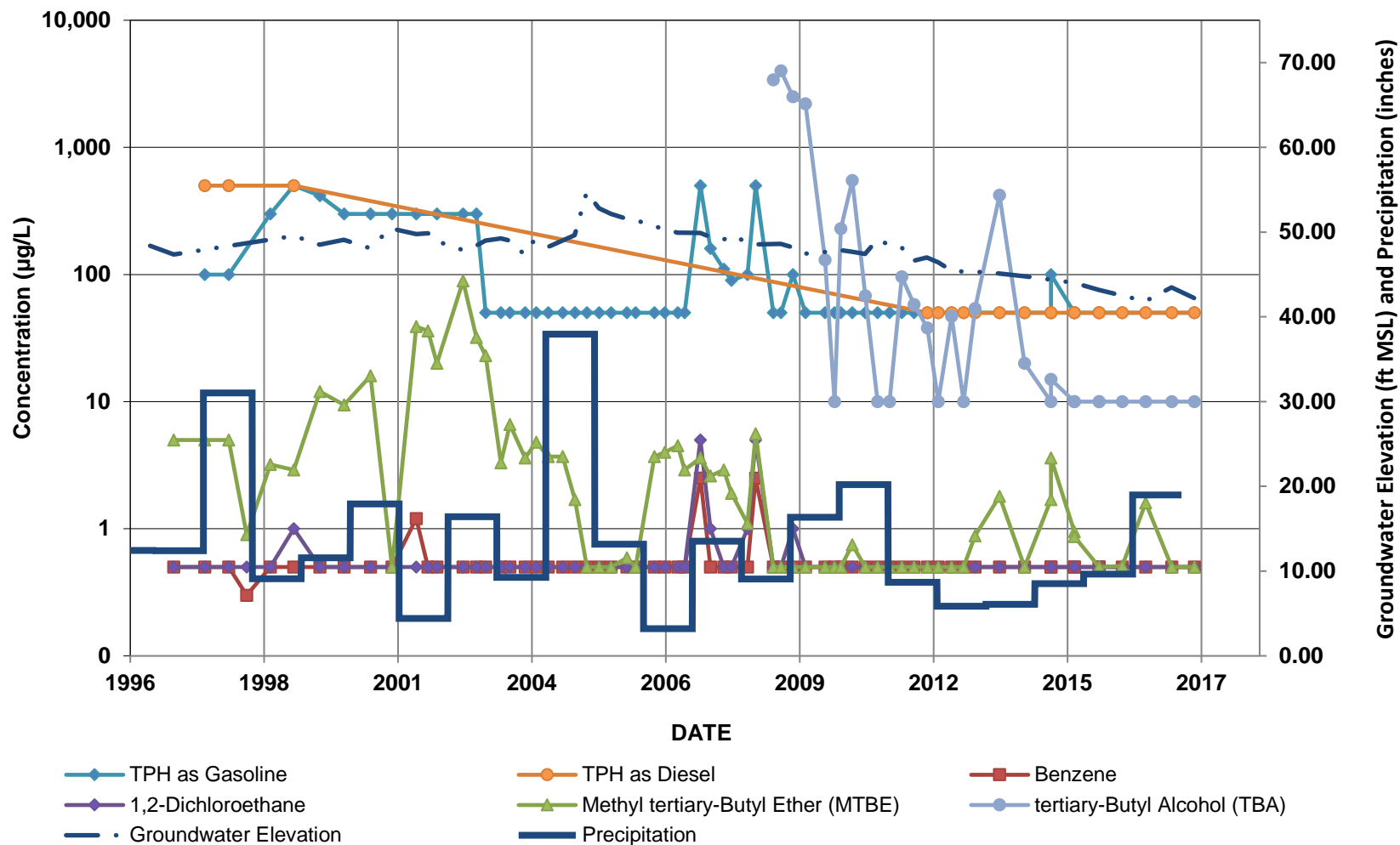


Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

SOUTHEASTERN 24-INCH BLOCK VALVE AREA

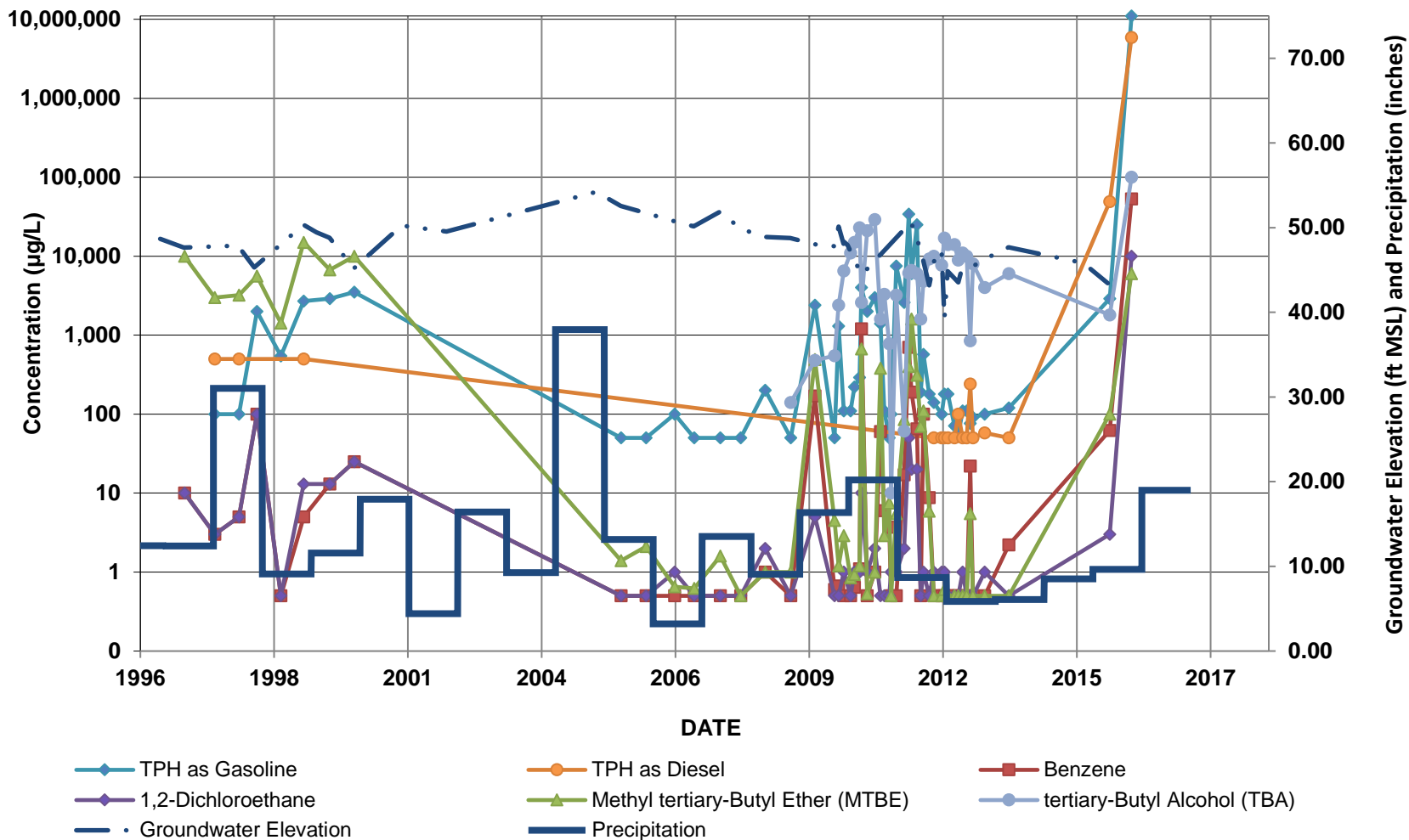
GMW-39, GMW-O-18, MW-8, AND PZ-5

GMW-39



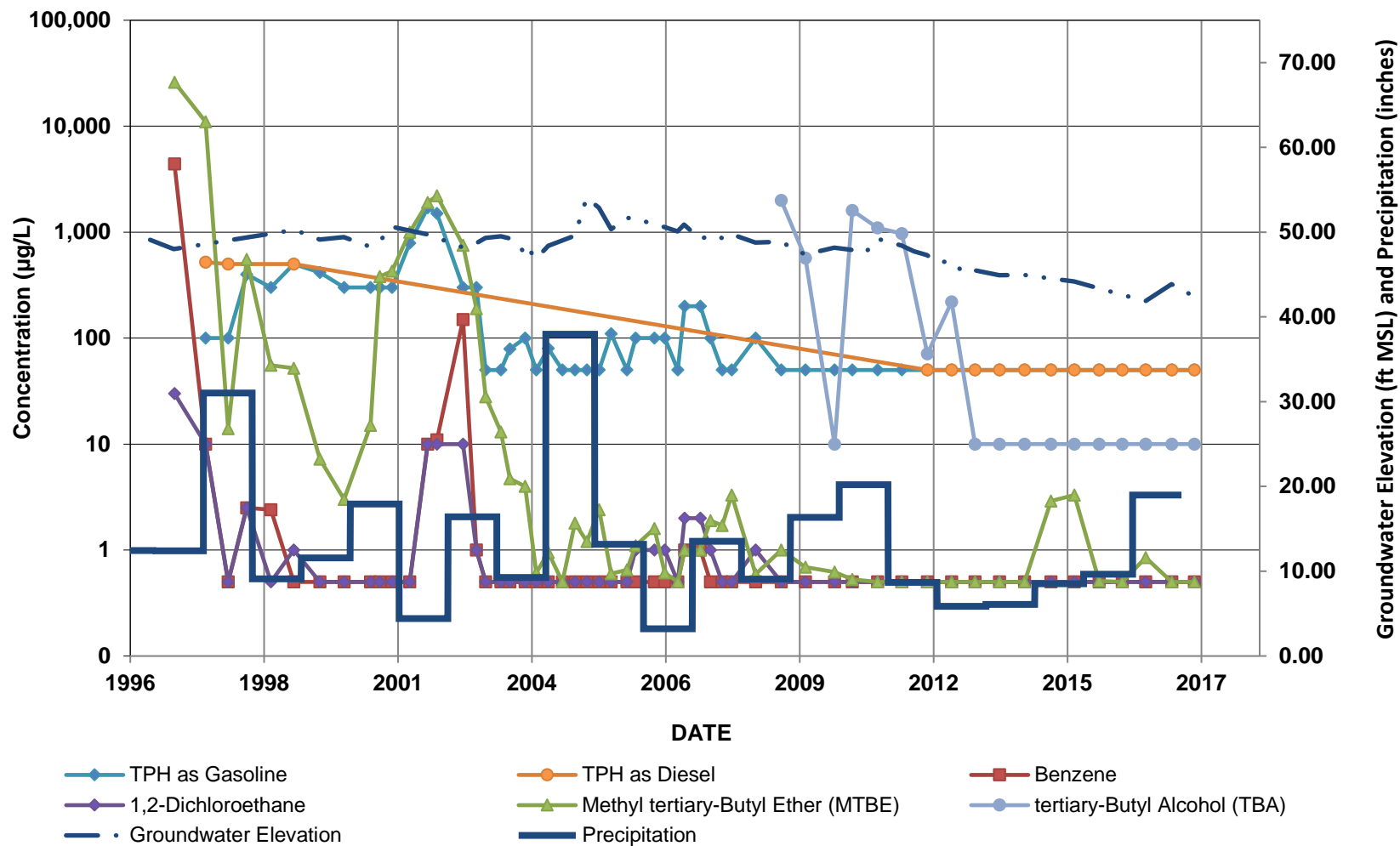
Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

GMW-0-18



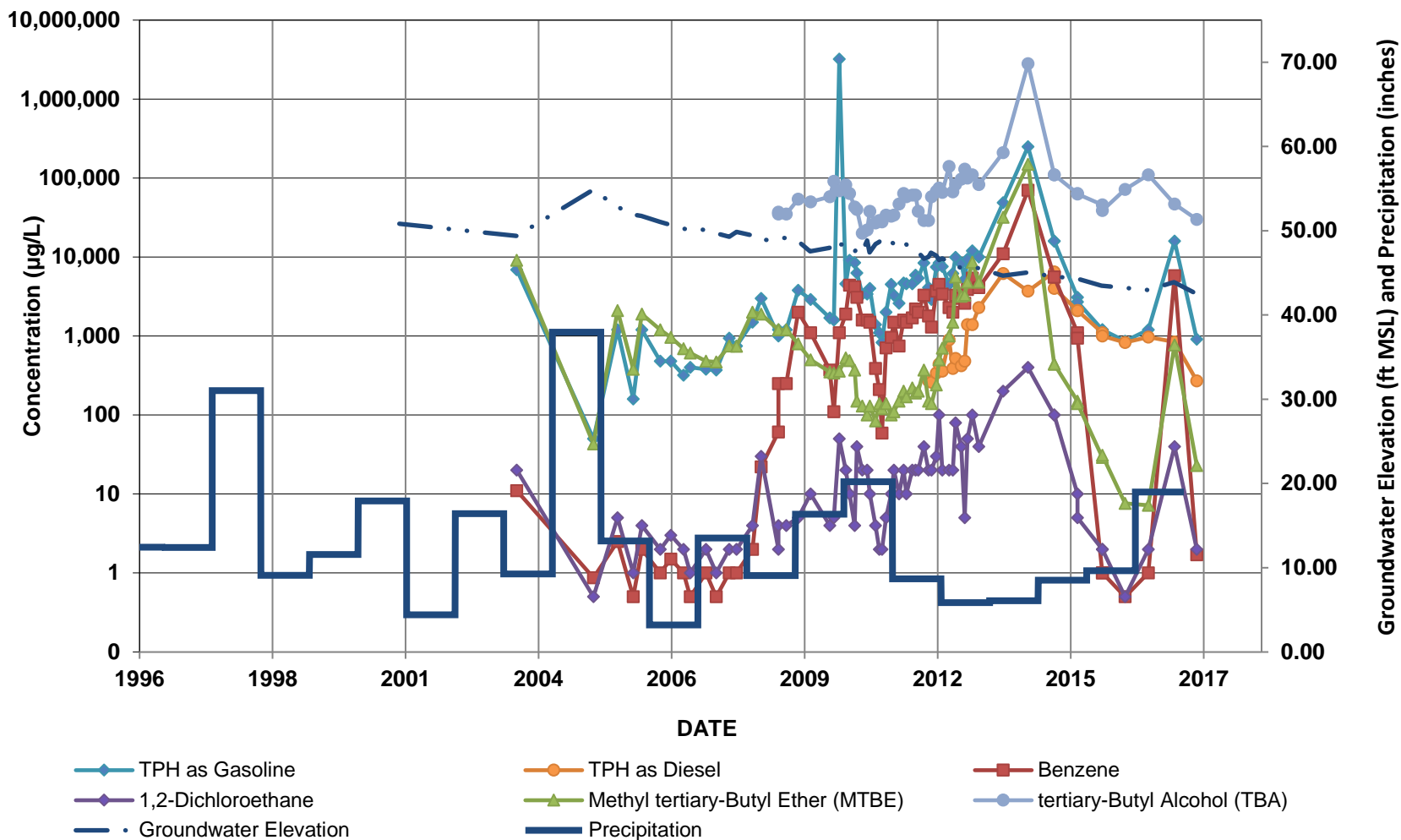
Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

MW-8



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)

PZ-5



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix D)