

SECOND SEMIANNUAL 2012 GROUNDWATER MONITORING REPORT

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

Prepared for

**Defense Logistics Agency Energy
8725 John J. Kingman Road
Fort Belvoir, Virginia 22060-6222**

January 30, 2013

Prepared by



100 WEST WALNUT STREET • PASADENA • CALIFORNIA 91124

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PARSONS
100 West Walnut Street
Pasadena, California 91124



Thomas A. Larson, PG
Principal Geologist



Redwan Hassan, PG
Senior Project Manager

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ACRONYMS AND ABBREVIATIONS

µg/L	micrograms per liter
1,2-DCA	1,2-dichloroethane
Alpha	Alpha Analytical, Inc
Blaine Tech	Blaine Tech Services, Inc.
BTEX	benzene, toluene, ethylbenzene, and total xylenes
Calscience	Calscience Environmental Laboratories, Inc.
COC	constituents of concern
DEOLA	Defense Energy Office — Los Angeles
DFSP	Defense Fuel Support Point
DIPE	diisopropyl ether
DLA	Defense Logistics Agency
ETBE	ethyl tertiary-butyl ether
EXP	Exposition aquifer
ft/ft	foot per foot
GWE	groundwater extraction
JP-4	jet propellant 4
JP-5	jet propellant 5
JP-8	jet propellant 8
KMEP	Kinder Morgan Energy Partners, L.P.
LNAPL	light non-aqueous phase liquid
MRP	Monitoring and Reporting Program
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, Los Angeles
SFPP	Santa Fe Pacific Pipeline, L. P.
SVE	soil vapor extraction
TAME	tertiary-amyl-methyl ether
TBA	tertiary-butyl alcohol
TFE	total fluids extraction
the site	Defense Fuel Support Point Norwalk
TPH	total petroleum hydrocarbons
TPHd	total petroleum hydrocarbons as diesel
TPHg	total petroleum hydrocarbons as gasoline
TPHjp5	total petroleum hydrocarbons as jet propellant 5
USEPA	U.S. Environmental Protection Agency
VOA	volatile organic analysis
VOC	volatile organic compound

1.0 INTRODUCTION

Parsons was contracted by the Defense Logistics Agency (DLA) Energy to prepare this Groundwater Monitoring Report on behalf of the Defense Energy Office – Los Angeles (DEOLA) and Santa Fe Pacific Pipeline, L.P. (SFPP), an operating partnership of Kinder Morgan Energy Partners, L.P. (KMEP), to summarize methods and results of groundwater monitoring activities conducted at the Defense Fuel Support Point (DFSP) Norwalk tank farm facility (the site) during the second half of 2012. The site is located at 15306 Norwalk Boulevard, Norwalk, California (Figure 1). The site is under the regulatory oversight of the California Regional Water Quality Control Board, Los Angeles (RWQCB).

As described in the March 6, 1995 Groundwater Sampling and Analysis Plan, DFSP Norwalk/SFPP Norwalk Pump Station (the sampling plan), SFPP and the DLA jointly perform groundwater monitoring events at the site. KMEP contracted CH2M HILL, and DLA contracted Parsons to perform project oversight and groundwater monitoring activities. Both SFPP and Parsons have subcontracted Blaine Tech Services, Inc. (Blaine Tech) to perform the field work, which includes gauging and purging wells using low flow groundwater monitoring methodology. Groundwater monitoring is conducted in accordance with the revised Monitoring and Reporting Program (MRP) for the site, which was approved by the RWQCB in May 2002, and additional requests received thereafter by the RWQCB.

Since 1986, environmental assessments have been performed at the DFSP Norwalk tank farm facility (both on site and off site) by several consultants on behalf of DLA and SFPP. During these investigations, wells were installed for monitoring and as components of groundwater 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, west, and east.

The principal chemical constituents of concern (COC) at the site are total petroleum hydrocarbons (TPH; including TPH quantified as gasoline [TPHg], diesel fuel [TPHd], jet propellant 4 [JP-4], jet propellant 5 [TPHjp5], and jet propellant 8 [JP-8]); benzene, toluene, ethylbenzene, and total xylenes (BTEX); 1, 2-dichloroethane (1,2-DCA); and methyl tertiary-butyl ether (MTBE). In addition, tert-butyl alcohol (TBA) has been added to the MRP pursuant to a request made by the RWQCB in March 2009. Additional background information regarding 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 semiannual monitoring event, certain wells are monitored quarterly and certain wells are monitored monthly. Initially, wells sampled during the quarterly monitoring event consisted of 11 “sentry wells” selected by the site’s Restoration Advisory Board (RAB) in 1998; thus, the quarterly monitoring events are referred to as the “sentry monitoring events” or “sentry events.” Since 1998, wells have been added to or removed from the sentry event in accordance with requests made by the RWQCB. In addition, certain wells are voluntarily monitored by DLA or SFPP based on requests made by the RAB.

In addition to sentry and semiannual monitoring events, certain wells are monitored on a monthly basis by SFPP, pursuant to a request from the RWQCB in February 2010. The RWQCB requested SFPP increase the monitoring frequency from quarterly to monthly for wells GMW-36, GMW-O-15, GMW-O-16, GMW-O-18, GMW-O-19, and PZ-5 in the southeastern offsite area. SFPP began the monthly monitoring in March 2010. Independent data tables for July and October 2012 are not presented in this report since these monthly events coincided with SFPP's sentry and semiannual monitoring events, respectively. Monthly monitoring results are also presented to the RWQCB and RAB in separate transmittals.

This report furnishes information pertaining to the following events: July 2012 sentry event, the October 2012 semiannual groundwater monitoring event, and the August, September, November, and December 2012 monthly events. This report includes groundwater gauging and sampling data from selected wells throughout the DFSP Norwalk tank facility and from wells located off-site to the east, west, and south, and provides an updated description of the status of the dissolved-phase and liquid-phase hydrocarbon plumes.

2.0 FIELD AND LABORATORY ACTIVITIES

An overview of the sentry and semiannual monitoring events, and the monthly events in the 24-inch block valve area, are provided in Subsection 2.1. Field and laboratory methods are described in Subsection 2.2.

2.1 OVERVIEW OF MONITORING EVENTS

This subsection summarizes the groundwater level measurement and sampling activities conducted for the July 9, 2012 sentry monitoring event, the monthly monitoring events, and the October 2012 semiannual monitoring event.

2.1.1 Sentry Event

The sentry monitoring event was conducted by Parsons and Blaine Tech from July 9 through July 11, 2012. Groundwater level measurements, sample collection, and laboratory analysis were performed in general accordance with the sampling plan. Field activities included water level and light non-aqueous phase liquid (LNAPL) or free product thickness measurements, purging, and sampling of the designated wells. Level measurements and sampling records for this event are provided in Appendix A.

Overall, water levels were measured in 127 wells, and 35 of those wells were sampled. Table 2 lists the wells that were gauged during the July 2012 sentry event, and Table 4 lists the wells that were sampled during the July 2012 sentry event.

2.1.2 Monthly Events

Groundwater samples were collected monthly in the 24-inch block valve area located in the southeast corner of the site by Blaine Tech on behalf of SFPP. Samples were collected from the following six wells in August, September, November, and December 2012: GMW-36, GMW-O-15, GMW-O-16, GMW-O-18, GMW-O-19, and PZ-5. Non-operational wells were purged and sampled using low-flow methods prior to sample collection. Groundwater extraction wells in operation during the time of sampling were sampled through the wellhead sample ports. Well gauging and sampling records for these events are provided in Appendix E, and a list of the wells monitored during the monthly events for the second half of 2012 is provided in summary tables in Appendix E.

2.1.3 Semiannual Event

Water levels were measured at 192 wells located within the facility and off-site to the west, south, and east to provide groundwater elevation and free product thickness data between October 11 and October 15; and water quality samples were collected at 101 of these wells for the semiannual sampling event. Three monitoring wells (EXP-1, EXP-2, and EXP-3) were sampled by Blaine Tech on behalf of Parsons and SFPP. Blaine Tech, on behalf of Parsons, also submitted four field duplicate samples and five trip blanks for analysis; and Blaine Tech, on behalf of SFPP, submitted seven duplicate samples and five trip blanks for analysis. Table 3 lists the wells that were gauged during the October 2012 semiannual monitoring event, and

Table 6 lists the wells sampled for the semiannual event. Well gauging and sampling records for the semiannual sampling event are provided in Appendix B.

2.2 FIELD AND LABORATORY METHODS

Field activities were conducted in accordance with the sampling plan and as described in Subsection 2.2.1. During the July 2012 sentry and October 2012 semiannual monitoring events, samples collected by Blaine Tech on behalf of Parsons were submitted to Calscience Environmental Laboratories, Inc. (Calscience) for analysis. Samples collected by Blaine Tech on behalf of SFPP for the sentry, monthly, and semiannual events were submitted to Alpha Analytical, Inc. (Alpha) for analysis. Calscience and Alpha are both certified by the Environmental Laboratory Accreditation Program of the California Department of Health Services. Samples were submitted to these laboratories for analysis as described in Subsection 2.2.2.

2.2.1 Field Methods

Prior to commencement of purging and sampling activities, SFPP's and DLA's remediation systems were shut down for one week. Subsequently, Parsons or Blaine Tech measured depth to water in each well using an electronic water level sounder; or depth to water and free product thickness using an interface probe. The down-well instruments used in the wells were cleaned with a non-detergent cleaner, then rinsed successively with tap water and distilled water before each use. The U.S. Environmental Protection Agency (USEPA) low-flow sampling method was followed, and Blaine Tech utilized a QED Sample Pro Bladder pump for wells sampled on behalf of Parsons and a Grundfos RF2 ES pump for wells sampled on behalf of SFPP. Each well was purged until the sampling parameters of specific conductivity, temperature, and pH have stabilized within 10% of the previous measurement. Purging records for the July 2012 sentry and October 2012 semiannual monitoring events are provided in Appendices A and B, respectively. Samples were collected directly from the pump discharge line into the sample container.

Samples analyzed for TPHg, and volatile organic compounds (VOCs), including BTEX, 1,2-DCA, TBA, and MTBE, 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. Water samples for analysis of TPHjp5 and TPHd were collected in 1/2-liter amber sample jars and sealed with Teflon lined airtight caps. The samples were labeled and placed on ice for transport to the laboratory following chain-of-custody procedures.

2.2.2 Laboratory Analytical Methods

Samples collected for DLA were sent to Calscience and samples collected for SFPP were sent to Alpha for laboratory analysis. The laboratory analytical program for the sampling events included analysis for TPH using purge-and-trap and/or extraction sample preparation techniques followed by USEPA Method 8015 (modified). Results for TPH analyses using the purge-and-trap preparation technique were quantified and reported against a commercial gasoline standard and are abbreviated "TPHg" throughout this report. Results for TPH

analyses using extraction sample preparation for groundwater samples collected by Blaine Tech on behalf of DLA were quantified and reported against a commercial JP-5 standard (results abbreviated “TPHjp5”). Results for TPH analyses using extraction sample preparation for groundwater samples collected by Blaine Tech on behalf of SFPP were quantified and reported against a commercial diesel standard (results abbreviated “TPHd”).

2.3 FREE PRODUCT REMOVAL

Total fluids recovery operations are being conducted by both DLA and SFPP at the northern and southern areas of the site, respectively, which has reduced the presence of measurable free product in several monitoring wells located throughout the site. However, in order to remove the remainder of free product from the northern area of the site, absorbent polypropylene socks were used as an interim remedial measure. The absorbent fibrous sock consists of hydrophobic (oleophilic) materials used for absorption of oil and hydrocarbon-based products. The 2-inch diameter absorbent socks are especially useful for removing thin layers of free product, even down to a sheen, and are likely to absorb approximately 1 quart of product per sock. The socks are installed in wells and replaced as needed by monitoring site conditions regularly to determine the most effective frequency of replacement. During the second semiannual 2012 event, two wells (GMW-21 and TF-17) had absorbent socks. Gauging data will be evaluated to determine if socks should be installed in any wells with measureable product for the next reporting period.

SFPP is conducting active free product removal in both the south-central and southeastern areas of the site via SFPP’s main groundwater treatment system. Free product and groundwater recovered by pneumatically operated top-loading total fluids pumps and bottom-loading groundwater pumps are piped to an oil/water separator. Free product, if any, from the oil/water separator is collected in a storage tank and recycled to an off-site location.

3.0 GROUNDWATER GAUGING RESULTS

Measurements of water level and free product thickness collected during the sentry, monthly, and semiannual monitoring events are described in the following subsections. Measurements of water level and free product thickness data collected during the monthly monitoring events for the southeastern area are described in more detail in the monthly monitoring submittals to the RWQCB.

3.1 SENTRY EVENT

During the sentry event, free product was observed in ten of the 127 wells measured. Depths to groundwater and calculated groundwater elevations for these wells are summarized in Table 2.

3.2 MONTHLY EVENTS

Three monitoring wells (GMW-O-16, GMW-O-19, and PZ-5) in the southeastern offsite area were gauged during August, September, November, and December 2012 monthly events. Extraction wells GMW-O-15, GMW-O-18, and GMW-36 were generally not gauged due to the presence of the extraction pumps during the monthly sampling events. Free product was observed in well GMW-36 during the November and December 2012 monthly events, when gauging of this well became accessible. Product thicknesses for these months were 2.2 feet and 4.5 feet, respectively, during pumping conditions. Water level measurements and groundwater elevations for wells gauged during the monthly event are included in Appendix E, Table E-1.

3.3 SEMIANNUAL EVENT

Both DLA and SFPP's groundwater extraction systems were shut down one week prior to the second semiannual 2012 groundwater gauging and sampling activities. Water level and free product thickness were measured in 192 wells during the semiannual monitoring event. Free product thicknesses, depths to groundwater, and calculated groundwater elevations are presented in Table 3. Groundwater elevations in wells with measureable free product were corrected for water-product density differences using a specific gravity of 0.84 for the free product, multiplying this specific gravity by the measured product thickness, and adding this correction to the groundwater elevation. Groundwater elevation contours for the uppermost groundwater zone along with estimated free product plumes are shown on Figure 2.

Some wells were not considered in contouring groundwater elevation in the uppermost groundwater zone for the following reasons:

- Five wells screened in the Exposition aquifer;
- Seven wells screened near the bottom of the uppermost aquifer (GMW-O-4 (MID), MW-18 (MID), MW-19 (MID), MW-20 (MID), MW-21 (MID), MW-22 (MID), and MW-23 (MID)); and
- Wells with groundwater elevations inconsistent with surrounding groundwater elevations.

Groundwater elevation data from wells screened in the uppermost aquifer were used in interpreting site groundwater elevation contours, flow directions, and hydraulic gradient for the uppermost groundwater zone. Groundwater elevations used in contouring ranged from 38.84 feet above mean sea level (msl) in GMW-SF-9 (an extraction well in the southeast corner) to 48.04 feet above msl in GMW-O-8. Groundwater elevations considered anomalous are not included in the range listed here but are indicated on Figure 2.

All groundwater extraction wells, including those used for groundwater monitoring, were turned off prior to the second semiannual groundwater sampling event, including wells in the north-central, south-central, southeastern, and eastern areas.

Overall groundwater flow and gradient conditions encountered during the semiannual monitoring event were similar to those encountered during previous monitoring events at the site. Historically, the overall flow direction (assuming no wells are pumping) in the uppermost aquifer has been to the north-northwest. The overall flow direction during this monitoring event was to the north, with a horizontal hydraulic gradient of approximately 0.003 foot per foot (ft/ft) (Figure 2) in the southern part of the site and essentially no gradient in the tank farm area. Groundwater elevations at the site during the October 2012 semiannual monitoring event were, generally in the range of 0.6 foot to 1.0 foot lower than elevations reported during the April 2012 semiannual monitoring event. The groundwater monitoring results for April 2012 were reported in the First Semiannual Report for 2012 (CH2M HILL, 2012).

Groundwater levels in the seven wells [GMW-O-4 (MID), MW-18 (MID), MW-19 (MID), MW-20 (MID), MW-21 (MID), MW-22 (MID), and MW-23 (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 (Figure 2). Groundwater elevations in these seven “MID” wells ranged from 39.99 (GMW-O-4 (MID)) to 46.32 (MW-21 (MID)) feet above msl, and were generally lower than nearby wells – indicating a downward hydraulic gradient.

Groundwater elevations in the five Exposition aquifer wells at and near the site ranged from 24.63 (EXP-5) to 26.07 (EXP-4) feet above msl. Figure 3 shows groundwater elevation contours for the Exposition aquifer. During October 2012, groundwater elevations in all five Exposition aquifer wells had decreased by approximately 1.25 feet at EXP-4 to 1.57 feet at EXP-5 from elevations reported during the April 2012 sampling event. Groundwater flow in the Exposition aquifer beneath the site is generally east-southeastward with a horizontal hydraulic gradient of approximately 0.0003 ft/ft, generally opposite of groundwater flow direction in the uppermost groundwater zone.

Free product was observed in 12 of the 192 wells measured during the second 2012 semiannual monitoring event, and apparent free product thicknesses measured ranged from 0.01 foot (TF-22) to 1.02 feet (MW-15). The detection of free product in monitoring wells during this sampling event and data from remediation system operations, in addition to historical detections of free product, were used in interpreting the current limits of the free product plumes at the site as shown on Figure 2.

The north-central free product plume has previously been interpreted as isolated or separated plumes. Most of the free product in these wells cannot be removed economically by

mechanical means. Parsons has been using adsorbent socks to remove free product present in the remaining wells since July 2007. Measured free product associated with the north-central free product plume was detected in GMW-62, TF-16, TF-17, TF-20, TF-22, TF-23, and PZ-3 during the October 2012 gauging event.

As observed in recent gauging events (CH2M HILL, 2012), the south-central free product plume remained in the same general area. The two smaller free product plumes in the south-central area to the west of the truck fill stations observed in April were not identified in October, possibly due to the lower water table elevation. However, free product reemerged at offsite wells GMW-O-12 and GMW-O-20.

Free product was again detected near the truck fill station area in MW-15 and GMW-4, with thicknesses of 1.02 feet and 0.15, respectively, in the well screens. A small free product plume reemerged at GMW-10, northwest of the TFS and west of the small slop tank. Free product was not detected in October in the southeastern block valve area near GMW-O-15, where it was observed in April 2012.

4.0 GROUNDWATER QUALITY

Groundwater quality results for the sentry and semiannual monitoring events are described in Subsections 4.1 and 4.2, respectively. Results for the monthly sampling events in the southeastern 24-inch block valve area are included in Appendix E.

4.1 RESULTS FOR SENTRY EVENT

The concentrations of dissolved analytes reported during the July sentry event were similar to those reported in several recent sampling events. The laboratory analytical results for the July 2012 sentry event for TPH, BTEX, 1,2-DCA, MTBE, and TBA are summarized in Table 4. Miscellaneous VOCs detected by USEPA Method 8260B analyses for this event are summarized in Table 5. Field data sheets are provided in Appendix A. Laboratory reports and chain-of-custody documentation are provided in Appendix C.

4.2 RESULTS FOR MONTHLY EVENTS

The laboratory analytical results, field data sheets, and chain-of-custody documentation for the August, September, November, and December 2012 monthly events for TPH, BTEX, 1,2-DCA, MTBE, TBA, diisopropyl ether (DIPE), ethyl tertiary-butyl ether (ETBE), and tertiary-amyl methyl ether (TAME) are provided on Table E-2 in Appendix E. A detailed discussion of the results was provided in the monthly transmittals to the RWQCB.

4.3 RESULTS FOR SEMIANNUAL EVENT

Laboratory analytical results for the second semiannual sampling event were used to develop iso-concentration maps for TPH, benzene, 1,2-DCA, MTBE, and TBA. These maps are presented as Figures 4 through 8, respectively. The concentrations of the compounds presented in these figures were used to assess the extent of impact to groundwater beneath the site. Quarterly and semiannual analytical data from October 2011 through October 2012 are included on Figures 4 through 8 in the data labels for each well. The data labels are color coded to indicate whether the concentrations from the October semiannual event are increasing, decreasing, or stable from the previous October 2011 semiannual event. Color coding was previously determined using data comparisons between successive semiannual events; however, comparisons between annual data was adopted pursuant to discussions made during the August 9, 2012 RAB meeting. A blue data label now 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. The changes in concentrations may be due to seasonal fluctuations of the water table elevation.

Laboratory analytical results for TPH, BTEX, 1,2-DCA, MTBE, and TBA are summarized in Table 6. Other VOCs detected by USEPA Method 8260B analyses are summarized in Table 7. Historical analytical results are presented in Table 9. Field data sheets are provided in Appendix B. Copies of the laboratory analytical data reports are presented in Appendix D.

4.3.1 Total Petroleum Hydrocarbons

The reported analytical results for TPHg and TPHjp5 or TPHd for each well sampled during the semiannual monitoring event are summed and contoured as total TPH on Figure 4. The contouring of TPH concentrations for the DLA data may be conservative in areas where gasoline is suspected because the hydrocarbon range reported by the two TPH analyses (TPHg, and TPHjp5) overlap. Table 6 lists separate values for TPHg, TPHjp5, and TPHd. Samples collected by Blaine Tech on behalf of Parsons from wells in the north-central free product plume areas were analyzed for TPHjp5 and at selected wells for TPHg.

The lateral extents of TPH plumes appear similar to those interpreted from a year ago for the second semiannual monitoring event performed in October 2011. The maximum reported concentration of TPHg was 77,000 micrograms per liter ($\mu\text{g/L}$) observed in dual phase (soil vapor and total fluids) extraction well MW-SF-11. The highest concentration of TPHd was 340,000 $\mu\text{g/L}$ observed in dual phase extraction well GMW-O-20, located in the southern off site area. The highest value of TPHjp5 was detected in the sample collected at PZ-3, located northeast of former Tank 80006, at a concentration of 5,000 $\mu\text{g/L}$. See Section 4.3 below for additional details and Table 6 for results.

TPH was not detected in any of the Exposition aquifer wells sampled during the October 2012 semiannual event.

As shown on Figure 4 and Tables 6 and 9, the lateral extent of TPH concentrations in the north-central area has generally stayed the same. However, measured concentrations had increased more along the south and west margins of the plume than a year ago during the October 2011 semiannual period as indicated by the red data flags on Figure 4. Still, some of the wells in the northeastern margins of the plume exhibit decreasing concentrations, as indicated by the blue data flags on Figure 4. Free product was first encountered at well GMW-62 in October 2010 (0.18 foot) since measurements began in August 2007; and was measured with 0.49 feet in October 2012. A groundwater sample has not been collected from GMW-62 since October 2010 due to the presence of free product. No free product was measured at GW-15 in the most recent sampling event, and only 0.01 feet were measured during the April semiannual monitoring. GW-15 and GW-16 are currently being pumped to create a cone of depression and control off-site migration to the east.

One low concentration plume remains in the northwest corner of the site and extending offsite. TPHjp5 was detected at off-site location WCW-8 (130 $\mu\text{g/L}$). Extraction well GW-2 was sampled during the July sentry event and had a concentration of TPHjp5 of 110 $\mu\text{g/L}$, but was not sampled during the October semiannual event.

A small isolated plume is still present between former Tank 80005 and former Tank 80006, where TPHjp5 was detected at MW-26 at 1,400 $\mu\text{g/L}$. The TPH concentration at GMW-17 was not sampled for the second semiannual sampling event, but had a concentration of 2,710 $\mu\text{g/L}$ during the first semiannual sampling event in April. No sample was collected at MW-11 in October, but the April and July 2012 sampling detected TPHjp5 at 930 and 780 $\mu\text{g/L}$, respectively.

In the south-central plume area of the site, the lateral extent of TPH generally stayed the same as compared to a year ago although concentrations increased in two wells (GMW-10 and

MW-SF-11) as indicated by the red data boxes on Figure 4, and decreased in many wells (blue data boxes). No free product was measured in any of the MW-SF extraction wells at the center of this dissolved plume area, but did reemerge in two of the off-site extraction wells to the south (GWM-O-12 and GMW-O-20).

One well in the southeast 24-inch block valve area (PZ-5) showed increased TPH concentrations during the October 2012 sampling event, while four extraction wells showed decreasing concentrations (GMW-36, GMW-O-15, GMW-O-18, and GMW-SF-9). The lower concentrations reported are likely the result of continued operation of these four extraction wells during 2012. Free product was not detected in wells GMW-36 and GMW-O-15 during October 2012 and this can also be attributed to continued operation of the extraction wells in the southeastern area. Both wells have had a historical presence of free product.

4.3.2 Benzene

Benzene concentrations reported during the October 2012 semiannual monitoring event are presented on Table 6 and contoured on Figure 5. Concentrations of benzene ranged from below detection limits in many wells to 18,000 µg/L in extraction well MW-SF-11, which is located in the south-central plume area. Benzene was not detected in any of the off-site wells west of the site, but was detected in off-site wells south and east of the site. Benzene was not detected in any of the Exposition aquifer wells.

The northern plume (previously the north-central and eastern plumes) continues to be interpreted as a single plume based on detections of benzene in the previously separate north-central and eastern wells. Figure 5 shows that benzene concentrations have decreased in four wells (indicated by blue data flags on Figure 5) and increased at four others (indicated by red data flags on Figure 5). The benzene concentration along the northeastern margin of the northern plume showed greater than 10 percent decrease concentrations; however, the magnitude of change is nearly insignificant.

Probably the most significant change is occurring in the western portion of the northern plume area. Benzene, which was not detected in October 2011 in the vicinity of former Tank 80006 at PZ-3, has increased to a concentration of 280 µg/L in October 2012. Free product was detected in well PZ-3 at a thickness of 0.23 feet.

Further to the northwest, benzene was again detected at MW-26 at 3.9 µg/L. The extent and magnitude of this plume appears to fluctuate seasonally with the rise and fall of the water table.

The benzene plume associated with the south-central area remained similar in the lateral extent to that observed during a year ago in the October 2011 semiannual monitoring event. Decreasing concentrations were reported in a number of off-site wells as indicated by the blue data flags. The most significant decreases were reported in off-site wells GMW-O-12 and GMW-O-21, near Cheshire Street. In addition, on-site well MW-18 (MID) was non-detect for benzene (benzene was 460 µg/L a year ago). Decreasing benzene concentrations in the south-central area may be a result of continued operation of the extraction wells in this area. Benzene concentrations increased in only a few wells (GMW-22 and MW-SF-11) as indicated by the red data flags.

In the southeastern 24-inch block valve area, the extent and magnitude of benzene remained essentially unchanged since a year ago, as shown on Figure 5. An increase in benzene was reported in PZ-5, while decreases are indicated at the four extraction wells (GMW-36, GMW-O-15, GMW-O-18, and GMW-SF-9) surrounding this plume. As mentioned above, the decrease in concentrations of fuel constituents in this area may be a result of continued operation of the extraction wells in this area.

4.3.3 1,2-Dichloroethane

1,2-DCA concentrations reported during the October 2012 semiannual monitoring event are provided in Table 6 and are contoured on Figure 6. The maximum reported 1,2-DCA concentration during the October 2012 sampling event was 9.2 µg/L in well WCW-7, located along Norwalk Boulevard just west of the site. Detected concentrations of 1,2-DCA in the plume area (Figure 6) were less than the conservative risk-based cleanup goal of 70 µg/L for 1,2-DCA. This plume may also extend into the south central plume area but may be masked by the high reporting limits due to dilution for other constituents. The size and configuration of the 1,2-DCA plume remains about the same as previous interpretations. 1,2-DCA was not detected in any of the Exposition aquifer wells.

As discussed in previous semiannual reports, 1,2-DCA concentrations in groundwater in the vicinity of the West Side Barrier and in the western off-site area are stable or show a long term declining trend (Table 9) and have remained consistently below the risk-based cleanup goal for 1,2-DCA since 2005. Pumping of the West Side Barrier wells for hydraulic containment was discontinued in August 2008; groundwater quality conditions in the area have been stable since then and will continue to be monitored.

4.3.4 Methyl Tertiary-Butyl Ether

MTBE concentrations reported during this semiannual monitoring event are provided in Table 6 and contoured on Figure 7. Concentrations of MTBE ranged from below detection limits in many wells to 400 µg/L in off-site extraction well GMW-O-23, located in the south-central plume area, and 5,600 µg/L at well PZ-5, located in southeastern 24-inch block valve area.

The MTBE plume in the south central area has a similar configuration as the benzene plume, although the lateral extent of MTBE in the northwestern portion of the site is interpreted to be greater. The lateral extent and magnitude of the MTBE plume in the northwestern portion of the site is generally similar to that interpreted for the last several years and is similar to the 1,2-DCA plume extent. MTBE was not detected at MW-7 (south of former Tank 80009) in any of the last three semiannual monitoring events, and the current plume interpretation shows a gap in the elongated plume originating from the south-central plume area. Concentrations of MTBE in off-site monitoring wells west of the site generally showed very slight decreases indicated by the blue data flags on Figure 7. MTBE in the off-site wells (i.e., WCW-4 and WCW-7) was detected at low concentrations below the risk-based cleanup goal (40 µg/L).

Generally, MTBE concentrations in the north-central plume area remained stable. The most significant change occurred at GMW-15, which is located north of former Tank 80007.

MTBE, which was not detected at GMW-15 since April 2010, was detected at a concentration of 12 µg/L. However, this is still below the cleanup goal of 40 µg/L.

A small, low concentration, isolated plume in the former truck fueling area was detected at MW-9 (3.7 µg/L). However, MTBE has not been detected at MW-15, where free product has been measured, since December 2006 (Table 9).

The MTBE plume near the southeastern 24-inch valve area is interpreted to be similar in lateral extent as a year ago, but the concentration magnitude has increased significantly during 2012 (Table 9) at well PZ-5. As indicated by the blue data flags, benzene concentrations in all four extraction wells (GMW-36, GMW-O-15, GMW-O-18, and GMW-SF-9) decreased relative to the concentrations reported in October 2011. MTBE was detected at trace concentrations (near the laboratory reporting limit) in newly installed monitoring well GMW-O-24, confirming the northern downgradient extent of MTBE in this area.

MTBE was not detected in any of the five Exposition wells in any of the sampling events during the second half of 2012.

4.3.5 Tertiary-Butyl Alcohol

Pursuant to the RWQCB's request in March 2009, analysis for other fuel oxygenates including TBA, ETBE, DIPE, and TAME using EPA Method 8260B was added to the MRP for this and future sampling events (RWQCB, 2009a; RWQCB, 2009b).

The highest concentration of TBA was detected in the southeast corner of the site near the 24-inch block valve at PZ-5 with a concentration of 83,000 µg/L and 110,000 µg/L in the duplicate sample. Other wells in the block valve area that had detected high levels of TBA include extraction wells GMW-O-18 (11,000 µg/L) and GMW-O-15 (2,600 µg/L). A significant decrease in TBA was reported in extraction well GMW-36 where the TBA concentration decreased from 3,700 µg/L in October 2011 to 100 µg/L in October 2012. TBA is a known breakdown product from MTBE degradation and the presence of TBA indicates that MTBE is being bio-degraded.

The magnitude of concentrations in the south-central plume area is masked because of the high reporting limits due to dilution for other constituents. Only one well northwest of the interpreted central plume area (MW-19 (MID)) showed increasing concentrations as indicated by the red data flag on Figure 7. Decreasing concentrations were reported in wells MW-7 and MW-18 (MID).

In the north-central plume area, the highest concentration of TBA was detected at GMW-47 at a concentration of 310 µg/L. The extent of the plume is smaller than one year ago and also smaller than the previous April semiannual event, mostly due to the decrease in concentrations at GMW-6 and GMW-45.

TBA was not detected in any of the five Exposition aquifer wells during this October semiannual sampling event. However, it was detected in the July 2012 event at samples from EXP-2 and EXP-3 at concentrations near the laboratory reporting limit. TBA was not detected in these wells in the subsequent October samples.

4.3.6 Other Fuel Oxygenates

DIPE was detected at 9 locations in the south-central plume area and extending to the northwest offsite area at WCW-7 (Table 6). TAME and ETBE were not detected in any of the sampled wells.

4.4 QUALITY ASSURANCE/QUALITY CONTROL

Alpha and Calscience did not report any significant quality assurance/quality control problems with the analytical work performed as part of the current sampling events. A total 5 trip blanks from the third quarter sentry event and 12 trip blanks from the second semiannual event were submitted to the laboratories for analysis. Target compounds were not detected in any trip blank. Table 8 is a summary of the analytical results for these Quality Assurance/Quality Control samples.

Field duplicate samples were collected as part of the July sentry event (five duplicate pairs) and October 2012 semiannual event (twelve duplicate pairs). Reported sample results exhibited acceptable agreement between the sample pairs. Field duplicate sample results are shown on Tables 4 and 6.

4.5 WATER DISPOSAL

Purged groundwater generated during these monitoring events was treated on-site in the remediation systems operated by the DLA and SFPP. Purged groundwater extracted by Blaine Tech on behalf of Parsons was pumped into the DLA system located in the northern part of the site to be discharged under National Pollutant Discharge Elimination System (NPDES) permit number CAG834001. Purged groundwater extracted by Blaine Tech on behalf of SFPP was treated in the SFPP treatment system located in the south-central part of the site and discharged under NPDES permit number CA0063509.

4.6 HEALTH AND SAFETY

Field activities were conducted in accordance with the site-specific health and safety plans. The health and safety plans include protocols for safe work practices for 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 events.

5.0 REMEDIAL SYSTEMS OPERATION

The remediation system operated at the site by DLA consists of soil vapor extraction (SVE), groundwater extraction (GWE), biosparging, absorbent sock installations for passive recovery of free product, and total fluids extraction (TFE). DLA is currently conducting GWE in the northwest corner of the property from two pumping wells (GW-2 and GW-13), and also from two wells (GW-15 and GW-16) in the northeast area bordering Holifield Park. The operation of the GWE system is to contain and reduce the extent of the free product and dissolved plumes. SVE is also underway from the horizontal wells that span the entire former aboveground tank farm area and from the north eastern boundary area.

The remediation system operated by SFPP consists 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. SFPP also previously operated a GWE system for remediation of the western off-site area (or West Side Barrier area). SFPP is currently extracting groundwater from four wells (GMW-O-21, MW-SF-3, MW-SF-14, and MW-SF-16) in the south-central area 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 COCs; and lower the free product surface (where present) and groundwater table, thus exposing more hydrocarbon-impacted soil for SVE.

Details of the remediation system operation are presented monthly and quarterly to the RWQCB and RAB. DLA created a web site (*Norwalkrab.com*) to house project information, which includes agendas, minutes, and presentations from RAB meetings dating back to 1994. In addition, all historical project information and reports can be located in the information repository at the Norwalk Regional Library.

The GWE systems throughout the site (in the north, east, and southern areas) were turned off prior to the October 2012 semiannual groundwater monitoring event. SFPP's West Side Barrier GWE system, which includes wells BW-1 through BW-9, has been shut down since August 2008. The north-central biosparging remediation system remained off during the second semiannual groundwater sampling event.

6.0 SUMMARY

Groundwater monitoring of sentry wells was conducted in July 2012. Semiannual monitoring of these and other wells at the site and its vicinity was conducted in October 2012. In general, free product conditions and groundwater quality interpreted from these monitoring events are similar to those interpreted from a year ago for the October 2011 semiannual sampling event. In addition, monthly monitoring of six wells in the southeastern area has been conducted since March 2010.

6.1 GROUNDWATER FLOW CONDITIONS

Groundwater elevations at the site during the October 2012 semiannual monitoring event were, on average, approximately 1 foot lower than the elevations reported during the April 2012 semiannual monitoring event. The overall flow direction during this monitoring event in the upper groundwater zone was to the north, with an estimated horizontal hydraulic gradient of approximately 0.003 ft/ft in the southcentral plume area to nearly flat in the truck fueling and tank farm areas. This is generally consistent with previous monitoring events. Groundwater flow in the Exposition aquifer was generally east-southeastward with a horizontal hydraulic gradient of approximately 0.0003 ft/ft. This is also generally consistent with previous monitoring events.

6.2 DISTRIBUTION OF FREE PRODUCT

Free product was observed in 12 of the 192 wells measured during the second 2012 semiannual monitoring event, and apparent free product thicknesses measured ranged from 0.01 foot (TF-22) to 1.02 feet (MW-15). Interpretation of the current limits of the free product accumulations at the site was based on the detections of free product during this sampling event, data from remediation system operations, and historical detections of free product. Free product accumulations are located in generally the same general areas as interpreted a year ago from the October 2011 event, except that free product was not observed in any of the wells in the southeastern 24-inch block valve area during this semiannual event. However, free product was observed in extraction well GMW-36 in the November and December monthly events during pumping conditions.

6.3 DISSOLVED-PHASE CONSTITUENTS

In most areas, the lateral extent and concentrations of dissolved TPH, benzene, 1,2-DCA, MTBE, and TBA plumes were similar to those detected during a year ago from the October 2011 event, as summarized below.

6.3.1 Total Petroleum Hydrocarbons

The lateral extents of TPH plumes appear similar to those interpreted a year ago for the October 2011 semiannual monitoring event. During the October 2012 semiannual sampling event, the highest concentrations of TPHg was 77,000 µg/L at extraction well MW-SF-11 in the south-central plume area. The maximum concentration of TPHd was also collected from the south-central plume area at offsite well GMW-O-20, at a concentration of 340,000 µg/L.

The highest TPH₅ occurred in the north-central plume area near former AST 80006 at PZ-3, with a concentration of 5,000 µg/L.

TPH was not detected in any of the Exposition aquifer wells sampled during the October 2012 semiannual event.

6.3.2 Benzene

Benzene concentrations ranged from below detection limits in many wells to 18,000 µg/L in extraction well MW-SF-11, which is located in the south-central plume area. Benzene was not detected in any of the off-site wells west of the site, nor in any of the Exposition wells.

The interpreted extent of the northern benzene plume has decreased since a year ago from the October 2011 interpretation. The benzene plume associated with the south-central area and the southeastern 24-inch block valve area remained similar in lateral extent to that observed during the October 2011 semiannual monitoring event.

6.3.3 1,2-Dichloroethane

The highest reported 1,2-DCA concentration during the reporting period was 9.2 µg/L in well WCW-7, located along Norwalk Boulevard just west of the site. All detections of 1,2-DCA were below the risk-based cleanup goal for 1,2-DCA of 70 µg/L. 1,2-DCA was not detected in any of the Exposition aquifer wells. The extent and magnitude of 1,2-DCA is similar to previous interpretations.

6.3.4 Methyl Tertiary-Butyl Ether

Concentrations of MTBE ranged from below detection limits in many wells to 5,600 µg/L in well PZ-5, located in the southeastern 24-inch block valve area. The extent and magnitude of MTBE is generally similar to previous interpretations. Concentrations of MTBE in off-site monitoring wells west of the site (i.e., WCW-4, WCW-7, and WCW-8) remained below the detection limit or were detected at very low concentrations below the risk-based cleanup goal of 40 µg/L. MTBE was not detected in any of the Exposition aquifer wells.

6.3.5 Tertiary Butyl Alcohol

The highest concentration of TBA was detected in the southeast corner of the site near the 24-inch block valve at PZ-5, with a concentration of 83,000 µg/L and 110,000 µg/L in the duplicate sample. In the south-central plume area, TBA was detected in the groundwater sample from extraction well MW-SF-4 at a concentration of 410 µg/L. Although the magnitude of TBA in the south-central area is masked by high reporting limits, due to dilution of samples for other constituents, the extent of TBA is interpreted to be similar to the MTBE plume. In the north central plume area, the highest concentration of TBA was detected at GMW-47 at a concentration of 310 µg/L. TBA is a known breakdown product from MTBE degradation and the presence of TBA indicates that MTBE is being naturally bio-degraded.

6.3.6 Other Fuel Oxygenates

Other fuel oxygenates including ETBE, DIPE, and TAME were analyzed during the October 2012 semiannual event. DIPE was generally detected in wells located north of the south-central area and along the West Side Barrier region. ETBE and TAME were not detected during the October 2012 sampling event. Fuel oxygenates will continue to be monitored and results will be further assessed to determine if additional actions are necessary.

7.0 REFERENCES

CH2M HILL, 2011. *First Semiannual 2011 Groundwater Monitoring Report Defense Fuel Support Point Norwalk, California, July 29.*

California Regional Water Quality Control Board, Los Angeles Region (RWQCB), Letter dated March 10, 2009a to Mr. Steve Osborn, Kinder Morgan Energy Partners; Additional Requirements on Groundwater Monitoring, Defense Fuel Support Point Norwalk, 15306 Norwalk Boulevard, Norwalk, California (SCP No. 0286B, Site No. 204DM00).

California RWQCB, Letter dated March 11, 2009b to Mr. Kola Olowu, Defense Energy Support Center; Additional Groundwater Extraction Well on Groundwater Monitoring and Well Installation, Defense Fuel Support Point Norwalk, 15306 Norwalk Boulevard, Norwalk, California (SCP No. 0286A, Site No. 16638).

TABLES

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

Well	Installation Date	Installed By	Total Depth (ft bgs) ¹	Casing Diameter (inches)	Screen Interval (ft bgs)	Slot Size (inches)	Casing Elevation (ft msl) ²
BW-1	05/16/96	GMX ³	55	5	31.9 - 51.4	0.01	73.17
BW-2	05/20/96	GMX	53.5	5	27 - 46.5	0.01	73.57
BW-3	05/17/96	GMX	55.5	5	30.6 - 50	0.01	74.16
BW-4	05/20/96	GMX	53.1	5	28.2 - 47	0.01	74.61
BW-5	05/23/96	GMX	52.5	5	27 - 45.5	0.01	73.59
BW-6	05/22/96	GMX	52.4	5	27.6 - 46.9	0.01	73.48
BW-7	05/22/96	GMX	52	5	27.1 - 46.3	0.01	74.65
BW-8	05/21/96	GMX	51.5	5	27 - 46.4	0.01	75.08
BW-9	05/21/96	GMX	52.5	5	26.9 - 46.4	0.01	76.19
EXP-1	03/06/92	WC ⁴	128.5	4	82 - 122	0.01	78.44
EXP-2	10/15/92	WC	149	4	90 - 120	0.02	79.43
EXP-3	10/20/92	WC	150	4	85 - 115	0.01	77.58
EXP-4	07/07/98	GMX	118	4	96.1 - 115.2	0.02	79.81
EXP-5	07/08/98	GMX	120	4	94.4 - 113.4	0.02	72.41
GMW-1	05/16/91	GTI ⁵	50	4	20 - 50	0.01	74.77
GMW-2	05/16/91	GTI	50	4	20 - 50	0.01	73.57
GMW-3	05/17/91	GTI	50	4	20 - 50	0.01	75.10
GMW-4	05/21/91	GTI	50	4	20 - 50	0.01	75.45
GMW-5	05/21/91	GTI	50	4	20 - 50	0.01	77.61
GMW-6	07/09/91	GTI	50	4	25 - 50	0.01	77.31
GMW-7	07/09/91	GTI	50	4	25 - 50	0.01	75.84
GMW-8	07/10/91	GTI	50	4	25 - 50	0.01	73.20
GMW-9	07/08/91	GTI	50	4	20 - 50	0.01	77.16
GMW-10	07/08/91	GTI	50	4	25 - 50	0.01	74.67
GMW-11	07/09/91	GTI	50	4	20 - 50	0.01	72.90
GMW-12	07/09/91	GTI	50	4	25 - 50	0.01	75.21
GMW-13	07/08/91	GTI	50	4	25 - 50	0.01	74.17
GMW-14	07/10/91	GTI	50	4	25 - 50	0.01	74.72
GMW-15	07/30/91	GTI	50	4	25 - 50	0.01	76.21
GMW-16	08/01/91	GTI	50	4	25 - 50	0.01	77.00
GMW-17	08/01/91	GTI	50	4	25 - 50	0.01	74.66
GMW-18	07/31/91	GTI	50	4	25 - 50	0.01	75.36
GMW-19	07/31/91	GTI	50	4	25 - 50	0.01	76.83
GMW-20	08/01/91	GTI	50	4	25 - 50	0.01	75.10
GMW-21 ⁶	08/02/91	GTI	50	4	25 - 50	0.01	76.23
GMW-22	08/02/91	GTI	61	4	25 - 60	0.01	77.24
GMW-23	08/02/91	GTI	60	4	25 - 60	0.01	74.85
GMW-24	08/05/91	GTI	60	4	25 - 60	0.01	77.48
GMW-25	01/10/92	GTI	50	6	20 - 50	0.01	78.14
GMW-26	01/07/92	GTI	51.5	4	20 - 50	0.01	74.52
GMW-27	01/10/92	GTI	50	4	20 - 50	0.01	74.41

TABLE 1
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Defense Fuel Support Point, Norwalk, California

Well	Installation Date	Installed By	Total Depth (ft bgs) ¹	Casing Diameter (inches)	Screen Interval (ft bgs)	Slot Size (inches)	Casing Elevation (ft msl) ²
GMW-28	01/07/92	GTI	50	4	20 - 50	0.01	74.68
GMW-29	01/09/92	GTI	50	4	20 - 50	0.01	77.57
GMW-30	01/09/92	GTI	51.5	6	20 - 50	0.01	74.91
GMW-31	06/02/93	GTI	65	4	25 - 65	0.01	76.50
GMW-32	06/01/93	GTI	50	4	20 - 50	0.02	74.62
GMW-33	06/01/93	GTI	50	4	20 - 50	0.02	74.88
GMW-34	06/03/93	GTI	50	4	20 - 50	0.02	75.25
GMW-35	06/04/93	GTI	50	4	20 - 50	0.02	76.12
GMW-36	04/11/94	GTI	50	4	20 - 50	0.01	76.66
GMW-37	04/11/94	GTI	50	4	20 - 50	0.01	77.32
GMW-38	04/12/94	GTI	50	4	20 - 50	0.01	75.47
GMW-39	04/12/94	GTI	50	4	20 - 50	0.01	75.05
GMW-40	06/29/94	GTI	50.5	4	20 - 50	0.01	73.13
GMW-41	06/30/94	GTI	50.5	4	20 - 50	0.01	74.46
GMW-42	06/30/94	GTI	50.5	4	20 - 50	0.01	75.50
GMW-43	07/01/94	GTI	50.5	4	20 - 50	0.01	74.44
GMW-44	07/01/94	GTI	50.5	4	20 - 50	0.01	74.45
GMW-45	07/01/94	GTI	50.5	4	20 - 50	0.01	75.67
GMW-46	07/05/94	GTI	50.5	4	20 - 50	0.01	76.10
GMW-47	07/05/94	GTI	50.5	4	20 - 50	0.01	75.98
GMW-48	07/05/94	GTI	50.5	4	20 - 50	0.01	75.03
GMW-49	07/06/94	GTI	50.5	4	20 - 50	0.01	74.75
GMW-50	12/19/94	GTI	46.5	4	15 - 45	0.01	75.51
GMW-51	12/19/94	GTI	41.5	4	15 - 40	0.01	75.93
GMW-52	12/19/94	GTI	41.5	4	15 - 40	0.01	75.03
GMW-53	12/19/94	GTI	46.5	4	15 - 45	0.01	74.90
GMW-54	12/20/94	GTI	46.5	4	15 - 45	0.01	75.16
GMW-55	12/20/94	GTI	41.5	4	15 - 40	0.01	74.60
GMW-56	08/12/98	FDGTI ⁷	55	2	20 - 55	0.02	76.50
GMW-56	08/12/98	FDGTI	55	4	20 - 55	0.02	76.52
GMW-57	08/13/98	FDGTI	55	2	19 - 54	0.02	76.66
GMW-57	08/13/98	FDGTI	55	4	19 - 54	0.02	76.66
GMW-58	08/14/98	FDGTI	55	2	20 - 55	0.02	75.46
GMW-58	08/14/98	FDGTI	55	4	20 - 55	0.02	75.48
GMW-59	08/14/98	FDGTI	55	2	20 - 55	0.02	75.28
GMW-59	08/14/98	FDGTI	55	4	20 - 55	0.02	75.28
GMW-60	04/14/04	Parsons	50	4	25 - 40	0.01	76.24
GMW-61	04/14/04	Parsons	50	4	30 - 40	0.01	75.60
GMW-62	07/02/07	Parsons	40.5	4	20 - 40	0.01	76.34
GMW-63	09/29/08	Parsons	41	4	20 - 40	0.02	77.32
GMW-64	09/29/08	Parsons	41	4	19.5 - 39.5	0.02	75.84

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GMW-65	07/06/09	Parsons	41.5	4	21 - 41	0.02	76.78
GMW-66	09/08/09	Parsons	40.5	4	20 - 40	0.02	77.00
GMW-O-1	03/04/92	GTI	51.5	4	19 - 49.5	0.01	71.45
GMW-O-2	03/02/92	GTI	51.5	4	20 - 50	0.01	72.54
GMW-O-3	03/02/92	GTI	51.5	4	20 - 50	0.01	72.19
GMW-O-4	03/03/92	GTI	51.5	4	20 - 50	0.01	71.95
GMW-O-4 (MID)	03/03/92	GTI	66.5	4	54.5 - 64.5	0.01	72.24
GMW-O-5	03/04/92	GTI	51.5	4	20 - 50	0.01	72.36
GMW-O-6	05/18/92	GTI	51.5	4	20 - 50	0.01	71.41
GMW-O-7	05/19/92	GTI	51.5	4	20 - 50	0.01	70.98
GMW-O-8	05/18/92	GTI	51	4	19.5 - 49.5	0.01	70.91
GMW-O-9	07/29/92	GTI	51.5	4	20 - 50	0.01	73.50
GMW-O-10	07/29/92	GTI	51.5	4	20 - 50	0.01	73.98
GMW-O-11	05/20/92	GTI	51.5	4	20 - 50	0.01	74.17
GMW-O-12	05/21/92	GTI	51.5	4	20 - 50	0.01	73.49
GMW-O-14	05/20/92	GTI	51.5	4	20 - 50	0.01	74.08
GMW-O-15	04/19/94	GTI	50	4	20 - 50	0.02	74.23
GMW-O-16	04/19/94	GTI	50	4	20 - 50	0.02	74.10
GMW-O-17	07/26/94	GMX	41	4	20.4 - 39.5	0.01	73.78
GMW-O-18	07/25/94	GMX	41	4	20.8 - 40.4	0.01	74.36
GMW-O-19	07/29/94	GMX	41.5	4	20.2 - 39.9	0.01	74.46
GMW-O-20	06/15/95	GMX	45.9	4	--- ⁸	---	73.32
GMW-O-21	06/19/97	GMX	45.9	4	25.5 - 45.5	0.01	71.43
GMW-O-22	---	GMX	41	4	---	---	74.36
GMW-O-23	06/25/07	GMX	44	4	20 - 40	0.02	73.63
GMW-O-24	09/24/12	CH2MHill	45	4	20 - 40	0.01	74.39
GMW-SF-7	07/27/94	GMX	41	4	20.1 - 39.9	0.01	75.26
GMW-SF-8	07/28/94	GMX	41	4	19.5 - 39.5	0.01	76.75
GMW-SF-9	04/01/03	GMX	47	4	36.6 - 46.2	0.02	73.05
GMW-SF-10	04/02/03	GMX	47	4	36.7 - 46.4	0.02	75.77
GW-1	06/12/95	GTI	63	1	25 - 60	0.02	75.46
GW-1	06/12/95	GTI	63	4	25 - 60	0.02	75.97
GW-2	06/12/95	GTI	63	1	25 - 60	0.02	76.39
GW-2	06/12/95	GTI	63	4	25 - 60	0.02	75.78
GW-3	06/13/95	GTI	63	1	25 - 60	0.02	76.56
GW-3	06/13/95	GTI	63	4	25 - 60	0.02	75.79
GW-4	06/13/95	GTI	63	1	24 - 59	0.02	74.77
GW-4	06/13/95	GTI	63	4	24 - 59	0.02	73.86
GW-5	06/15/95	GTI	63	1	25.5 - 60.5	0.02	77.09
GW-5	06/15/95	GTI	63	4	25.5 - 60.5	0.02	76.99
GW-6	06/15/95	GTI	63	1	25 - 60	0.02	77.41

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

Well	Installation Date	Installed By	Total Depth (ft bgs) ¹	Casing Diameter (inches)	Screen Interval (ft bgs)	Slot Size (inches)	Casing Elevation (ft msl) ²
GW-6	06/15/95	GTI	63	4	25 - 60	0.02	76.38
GW-7	06/16/95	GTI	63	1	25 - 60	0.02	76.76
GW-7	06/16/95	GTI	63	4	25 - 60	0.02	75.02
GW-8	06/14/95	GTI	63	1	24 - 59	0.02	76.88
GW-8	06/14/95	GTI	63	4	24 - 59	0.02	76.15
GW-13	04/26/07	Parsons	65	1	25 - 65	0.02	77.00
GW-13	04/26/07	Parsons	67	6	25 - 65	0.02	76.85
GW-14	04/26/07	Parsons	65	1	25 - 65	0.02	76.55
GW-14	04/26/07	Parsons	67	6	25 - 65	0.02	76.54
GW-15	04/26/07	Parsons	62.5	1	20.5 - 60.5	0.02	75.36
GW-15	04/26/07	Parsons	60.5	6	20.5 - 60.6	0.02	74.94
GW-16p	07/07/09	Parsons	61.3	1	21 - 61	0.02	76.55
GW-16	07/07/09	Parsons	63	6	20.5 - 60.5	0.02	76.33
GWR-1	07/11/91	GTI	50	4	25 - 50	0.01	77.40
GWR-2	07/12/91	GTI	50	4	25 - 50	0.01	73.66
GWR-3	01/10/92	GTI	50	6	20 - 50	0.01	77.60
HL-1	10/14/86	HLA ⁹	39	4	18 - 38	0.01	75.83
HL-2	10/13/86	HLA	39	4	16.5 - 36.5	0.01	76.94
HL-3	10/15/86	HLA	44	4	19 - 39	0.01	76.86
HL-4	10/16/86	HLA	39	4	18 - 38.5	0.01	75.75
HL-5	10/16/86	HLA	39.5	4	18.5 - 39	0.01	76.13
MW-6	08/09/90	WC	50	4	18 - 48	0.01	77.20
MW-7	08/27/90	WC	50	4	19 - 48	0.01	78.13
MW-8	08/24/90	WC	51	4	18 - 48	0.01	76.06
MW-9	08/08/90	WC	50	4	18 - 48	0.01	77.11
MW-10	08/24/90	WC	51	4	18 - 48	0.01	79.12
MW-11	08/09/90	WC	50	4	18 - 48	0.01	78.17
MW-12	08/27/90	WC	50	4	18 - 48	0.01	75.76
MW-13	08/23/90	WC	50	4	18 - 48	0.01	78.25
MW-14	08/07/90	WC	50	4	18 - 48	0.01	78.60
MW-15	08/07/90	WC	50	4	18 - 48	0.01	76.99
MW-16	08/08/90	WC	50	4	18 - 48	0.01	76.87
MW-17	08/06/90	WC	50	4	18 - 48	0.01	77.86
MW-18 (MID)	06/10/91	WC	62.2	4	50 - 60	0.01	75.67
MW-19 (MID)	06/11/91	WC	62.2	4	49.5 - 59.5	0.01	78.14
MW-20 (MID)	06/12/91	WC	65.7	4	43 - 53	0.01	77.19
MW-21 (MID)	06/12/91	WC	62.4	4	47 - 57	0.01	77.55
MW-22 (MID)	06/13/91	WC	57.9	4	42 - 52	0.01	79.57
MW-23 (MID)	06/14/91	WC	57.1	4	42 - 52	0.01	79.59
MW-24	06/14/91	WC	47	4	14 - 44	0.01	78.51
MW-25	06/17/91	WC	47.2	4	22.5 - 42.5	0.01	79.15

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

Well	Installation Date	Installed By	Total Depth (ft bgs) ¹	Casing Diameter (inches)	Screen Interval (ft bgs)	Slot Size (inches)	Casing Elevation (ft msl) ²
MW-26	06/17/91	WC	47.3	4	23.5 - 43.5	0.01	77.40
MW-27	06/17/91	WC	52.3	4	18 - 48	0.01	78.46
MW-28	6/19/91	WC	51.5	4	16.5 - 46.5	0.01	78.53
MW-29	06/19/91	WC	52.4	4	17.5 - 47.5	0.01	79.13
MW-O-1	01/22/91	GMX	40	2	25 - 40	0.02	75.48
MW-O-2	01/23/91	GMX	40	2	25 - 40	0.02	71.90
MW-O-3	10/25/91	GMX	41	6	20.5 - 41	0.01	74.53
MW-O-4	10/25/91	GMX	41	4	20.5 - 41	0.01	75.00
MW-SF-1	06/18/90	GMX	40	4	25 - 40	0.02	78.93
MW-SF-2	06/18/90	GMX	40	4	25 - 40	0.02	78.53
MW-SF-3	06/18/90	GMX	40	4	25 - 40	0.02	78.12
MW-SF-4	06/19/90	GMX	40	4	25 - 40	0.02	79.38
MW-SF-5	09/19/90	GMX	40	4	23 - 38	0.02	79.74
MW-SF-6	09/19/90	GMX	40	4	24 - 39	0.02	76.80
MW-SF-9	06/15/95	GMX	40	4	---	---	74.10
MW-SF-10	09/23/03	GMX	30.5	4	10.3 - 29.9	0.02	76.53
MW-SF-11	06/19/07	GMX	44	4	20 - 40	0.02	78.56
MW-SF-12	06/18/07	GMX	44	4	20 - 40	0.02	78.07
MW-SF-13	06/19/07	GMX	44	4	20 - 40	0.02	73.40
MW-SF-14	06/21/07	GMX	44	4	20 - 40	0.02	78.16
MW-SF-15	06/21/07	GMX	44	4	20 - 40	0.02	78.27
MW-SF-16	06/20/07	GMX	44	4	20 - 40	0.02	78.21
PO-7	05/01/89	GW ¹⁰	56	4	29 - 49	0.02	80.26
PW-1	01/06/92	GTI	51.5	4	20 - 50	0.01	75.52
PW-2	01/06/92	GTI	50	4	20 - 50	0.01	74.71
PW-3	01/06/92	GTI	50	4	20 - 50	0.01	73.71
PZ-1	07/12/91	GTI	50	2	25 - 50	0.01	73.74
PZ-2	07/12/91	GTI	50	2	25 - 50	0.01	73.96
PZ-3	06/03/93	GTI	65	2	25 - 65	0.02	76.17
PZ-4	06/02/93	GTI	60	2	25 - 60	0.02	76.13
PZ-5	09/26/00	GMX	40.3	4	20.6 - 39.4	0.01	73.97
PZ-6	09/26/00	GMX	37.5	4	22.8 - 37.8	0.01	73.91
PZ-7A	04/07/03	GMX	32	2	21.5 - 31.2	0.01	73.87
PZ-7B	04/07/03	GMX	47.5	2	42 - 46.7	0.01	73.79
PZ-8A	04/08/03	GMX	31.5	2	21.2 - 31	0.01	75.81
PZ-8B	04/08/03	GMX	47	2	41.4 - 46.2	0.01	75.69
PZ-9A	04/09/03	GMX	32	2	21.6 - 30.9	0.01	76.14
PZ-9B	04/09/03	GMX	47	2	41.5 - 46.2	0.01	76.26
PZ-10	04/10/03	GMX	38.5	2	23.2 - 37.9	0.02	74.34
TF-8	09/22/95	GTI	63	1.5	25 - 60	0.02	75.60
TF-8	09/22/95	GTI	63	4	25 - 60	0.02	74.86

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

Well	Installation Date	Installed By	Total Depth (ft bgs) ¹	Casing Diameter (inches)	Screen Interval (ft bgs)	Slot Size (inches)	Casing Elevation (ft msl) ²
TF-9	09/22/95	GTI	63	1.5	25 - 60	0.02	75.27
TF-9	09/22/95	GTI	63	4	25 - 60	0.02	74.47
TF-10	09/25/95	GTI	63	1.5	25 - 60	0.02	74.19
TF-10	09/25/95	GTI	63	4	25 - 60	0.02	73.61
TF-11	09/25/95	GTI	63	1.5	25 - 60	0.02	74.95
TF-11	09/25/95	GTI	63	4	25 - 60	0.02	74.40
TF-13	09/26/95	GTI	63	1.5	25 - 60	0.02	75.90
TF-13	09/26/95	GTI	63	4	25 - 60	0.02	75.47
TF-14	09/27/95	GTI	63	1.5	25 - 60	0.02	74.78
TF-14	09/27/95	GTI	63	4	25 - 60	0.02	74.35
TF-15	09/28/95	GTI	63	1.5	25 - 60	0.02	75.40
TF-15	09/28/95	GTI	63	4	25 - 60	0.02	74.78
TF-16	09/28/95	GTI	63	1.5	25 - 60	0.02	76.48
TF-16	09/28/95	GTI	63	4	25 - 60	0.02	75.89
TF-17	09/29/95	GTI	63	1.5	25 - 60	0.02	75.26
TF-17	09/29/95	GTI	63	4	25 - 60	0.02	74.88
TF-18	07/06/94	GTI	50.5	4	20 - 50	0.02	73.94
TF-19	10/03/95	GTI	63	1.5	25 - 60	0.02	75.61
TF-19	10/03/95	GTI	63	4	25 - 60	0.02	75.07
TF-20	10/03/95	GTI	63	1.5	25 - 60	0.02	75.59
TF-20	10/03/95	GTI	63	4	25 - 60	0.02	75.08
TF-21	09/29/95	GTI	63	1.5	25 - 60	0.02	75.60
TF-21	09/29/95	GTI	63	4	25 - 60	0.02	74.96
TF-22	10/02/95	GTI	63	1.5	25 - 60	0.02	74.95
TF-22	10/02/95	GTI	63	4	25 - 60	0.02	74.76
TF-23	07/05/94	GTI	50.5	4	20 - 50	0.02	75.31
TF-24 ¹¹	09/26/95	GTI	63	1.5	25 - 60	0.02	76.35
TF-24 ¹¹	09/26/95	GTI	63	4	25 - 60	0.02	76.43
TF-25	04/04/01	GTI	47	1.5	41 - 46	0.02	---
TF-25	04/04/01	GTI	47	4	26 - 36	0.02	74.85
TF-26	04/03/01	GTI	47	1.5	41 - 46	0.02	---
TF-26	04/03/01	GTI	47	4	26 - 36	0.02	75.85
WCW-1	02/18/92	WC	52	4	20 - 50	0.01	72.86
WCW-2	02/21/92	WC	52	4	20 - 50	0.01	75.34
WCW-3	02/19/92	WC	56.5	4	19 - 49	0.01	76.16
WCW-4	02/20/92	WC	56.5	4	20 - 50	0.01	78.05
WCW-5	04/30/92	WC	52	4	19 - 49	0.01	73.49
WCW-6	04/20/92	WC	53.5	4	20 - 50	0.01	75.52
WCW-7	04/29/92	WC	53	4	20 - 50	0.01	76.44
WCW-8	04/21/92	WC	53.5	4	20 - 50	0.01	77.34
WCW-9	04/28/92	WC	53.5	4	20 - 50	0.01	77.74

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

Well	Installation Date	Installed By	Total Depth (ft bgs) ¹	Casing Diameter (inches)	Screen Interval (ft bgs)	Slot Size (inches)	Casing Elevation (ft msl) ²
WCW-10	09/11/92	WC	56.5	4	25 - 55	0.01	74.06
WCW-11	09/09/92	WC	61.5	4	30 - 60	0.01	75.29
WCW-12	09/08/92	WC	61.5	4	30 - 60	0.01	76.27
WCW-13	09/10/92	WC	61.5	4	30 - 60	0.01	77.70
WCW-14	08/12/98	FDGTI	59	4	24 - 59	0.01	78.81

Notes

1. ft bgs = feet below ground surface.
2. ft msl = feet above mean sea level.
3. GMX = Geomatrix Consultants.
4. WC = Woodward-Clyde.
5. GTI = Groundwater Technology/Groundwater Technology Government Services.
6. GMW-21 is also referred to as TF-24.
7. FDGTI - Fluor Daniel GTI.
8. --- = information not available.
9. HLA = Harding Lawson Associates.
10. GW = Golden West
11. TF-24 is also referred to as "old TF-24" or "former TF-24". See also Note 6.
12. Biosparge and additional soil vapor extraction wells used for remediation purposes only are not listed here.

TABLE 2
SUMMARY OF GROUNDWATER ELEVATIONS
JULY 2012 SENTRY EVENT
Defense Fuel Support Point, Norwalk, California

Well	Date	Top of Casing Elevation ¹	Depth to Product (feet) ²	Depth to Water (feet) ²	Apparent Product Thickness (feet)	Groundwater Elevation ¹
EXP-1	07/05/12	78.44	---	53.02	--- ³	25.42
EXP-1	07/09/12	78.44	---	52.69	---	25.75
EXP-2	07/05/12	79.43	---	53.37	---	26.06
EXP-2	07/09/12	79.43	---	53.08	---	26.35
EXP-3	07/06/12	77.58	---	52.16	---	25.42
EXP-3	07/09/12	77.58	---	51.87	---	25.71
EXP-5	07/09/12	72.41	---	46.88	---	25.53
GMW-1	07/09/12	74.77	---	29.14	---	45.63
GMW-5	07/05/12	77.61	---	31.77	---	45.84
GMW-6	07/05/12	77.31	---	31.32	---	45.99
GMW-7	07/05/12	75.84	29.86	30.02	0.16	45.95 ⁴
GMW-12	07/06/12	75.21	---	29.16	---	46.05
GMW-15	07/05/12	76.21	---	30.25	---	45.96
GMW-16	07/05/12	77.00	---	31.09	---	45.91
GMW-17	07/06/12	74.66	---	28.71	---	45.95
GMW-18	07/06/12	75.36	---	29.19	---	46.17
GMW-19	07/05/12	76.83	---	30.87	---	45.96
GMW-20	07/06/12	75.10	---	29.13	---	45.97
GMW-21	07/05/12	76.23	---	30.1	---	46.13
GMW-27	07/09/12	74.41	---	27.94	---	46.47
GMW-30	07/09/12	74.91	---	28.43	---	46.48
GMW-31	07/06/12	76.50	---	30.63	---	45.87
GMW-32	07/06/12	74.62	---	28.56	---	46.06
GMW-33	07/05/12	74.88	---	---	---	---
GMW-34	07/06/12	75.25	---	29.13	---	46.12
GMW-35	07/05/12	76.12	30.02	30.17	0.15	46.08
GMW-36	07/09/12	---	---	33.71	---	---
GMW-37	07/09/12	77.32	---	30.86	---	46.46
GMW-38	07/09/12	75.47	---	28.97	---	46.50
GMW-39	07/09/12	75.05	---	28.62	---	46.43
GMW-40	07/06/12	73.13	---	27.23	---	45.90
GMW-41	07/06/12	74.46	---	28.58	---	45.88
GMW-42	07/06/12	75.50	---	29.62	---	45.88
GMW-43	07/06/12	74.44	---	28.55	---	45.89
GMW-44	07/06/12	74.45	---	28.85	---	45.60
GMW-45	07/05/12	75.67	---	29.75	---	45.92
GMW-47	07/05/12	75.98	---	29.99	---	45.99
GMW-48	07/05/12	75.03	---	28.2	---	46.83
GMW-50	07/05/12	75.51	---	29.46	---	46.05

TABLE 2
SUMMARY OF GROUNDWATER ELEVATIONS
JULY 2012 SENTRY EVENT
Defense Fuel Support Point, Norwalk, California

Well	Date	Top of Casing Elevation ¹	Depth to Product (feet) ²	Depth to Water (feet) ²	Apparent Product Thickness (feet)	Groundwater Elevation ¹
GMW-51	07/05/12	75.93	---	29.8	---	46.13
GMW-52	07/06/12	75.03	---	28.89	---	46.14
GMW-53	07/06/12	74.90	---	28.78	---	46.12
GMW-54	07/06/12	75.16	---	29.08	---	46.08
GMW-55	07/06/12	74.60	---	---	---	---
GMW-56	07/05/12	76.52	---	30.46	---	46.06
GMW-57	07/05/12	76.66	---	30.65	---	46.01
GMW-58	07/06/12	75.48	---	28.57	---	46.91
GMW-59	07/05/12	75.28	---	28.04	---	47.24
GMW-60	07/06/12	76.24	---	30.08	---	46.16
GMW-61	07/06/12	75.60	---	29.47	---	46.13
GMW-62	07/06/12	76.34	29.91	30.34	0.43	46.36
GMW-63	07/06/12	77.32	---	30.75	---	46.57
GMW-64	07/06/12	75.84	---	29.23	---	46.61
GMW-65	07/06/12	76.78	---	30.52	---	46.26
GMW-66	07/05/12	77.00	---	30.81	---	46.19
GMW-O-1	07/09/12	71.45	---	24.19	---	47.26
GMW-O-2	07/09/12	72.54	---	25.21	---	47.33
GMW-O-3	07/09/12	72.19	---	25.29	---	46.9
GMW-O-9	07/09/12	73.50	---	26.91	---	46.59
GMW-O-10	07/09/12	73.98	---	27.81	---	46.17
GMW-O-12	07/09/12	73.49	---	26.96	---	46.53
GMW-O-14	07/09/12	74.08	---	27.51	---	46.57
GMW-O-15	07/09/12	74.23	---	25.47	---	48.76
GMW-O-16	07/09/12	74.10	---	27.12	---	46.98
GMW-O-17	07/09/12	73.78	---	26.42	---	47.36
GMW-O-18	07/09/12	74.36	---	29.51	---	44.85
GMW-O-19	07/09/12	74.46	---	27.27	---	47.19
GMW-O-20	07/09/12	73.32	---	32.92	---	40.40
GMW-O-23	07/09/12	73.63	---	27.41	---	46.22
GMW-SF-8	07/09/12	76.75	---	30.09	---	46.66
GW-1	07/05/12	75.97	---	30.1	---	45.87
GW-2	07/05/12	75.78	---	29.87	---	45.91
GW-3	07/05/12	75.79	---	29.97	---	45.82
GW-4	07/05/12	73.86	---	---	---	---
GW-5	07/05/12	76.99	---	31.08	---	45.91
GW-6	07/05/12	76.38	---	30.51	---	45.87
GW-7	07/06/12	75.02	---	29.14	---	45.88
GW-8	07/05/12	76.15	---	30.25	---	45.90

TABLE 2
SUMMARY OF GROUNDWATER ELEVATIONS
JULY 2012 SENTRY EVENT
Defense Fuel Support Point, Norwalk, California

Well	Date	Top of Casing Elevation ¹	Depth to Product (feet) ²	Depth to Water (feet) ²	Apparent Product Thickness (feet)	Groundwater Elevation ¹
GW-13	07/05/12	76.85	---	31.11	---	45.74
GW-14	07/05/12	76.54	---	30.64	---	45.90
GW-15	07/06/12	74.94	29.84	29.86	0.02	45.10
GW-16	07/05/12	76.33	---	30.76	---	45.57
HL-2	07/09/12	76.94	---	30.22	---	46.72
MW-8	07/09/12	76.06	---	29.63	---	46.43
MW-10	07/05/12	79.12	33.17	33.19	0.02	45.95
MW-11	07/06/12	78.17	---	32.23	---	45.94
MW-13	07/05/12	78.25	---	32.20	---	46.05
MW-14	07/05/12	78.60	---	32.75	---	45.85
MW-16	07/05/12	76.87	---	30.77	---	46.10
MW-17	07/05/12	77.86	---	31.81	---	46.05
MW-22 MID	07/06/12	79.57	---	34.74	---	44.83
MW-23 MID	07/05/12	79.59	---	33.67	---	45.92
MW-24	07/05/12	78.51	---	32.66	---	45.85
MW-25	07/06/12	79.15	---	33.12	---	46.03
MW-26	07/06/12	77.40	---	31.38	---	46.02
MW-27	07/06/12	78.46	---	32.37	---	46.09
MW-28	07/06/12	78.53	---	32.48	---	46.05
MW-29	07/06/12	79.13	---	33.10	---	46.03
MW-O-2	07/09/12	71.90	---	26.53	---	45.37
MW-SF-1	07/09/12	78.93	---	31.24	---	47.69
MW-SF-2	07/09/12	78.53	---	33.18	---	45.35
MW-SF-4	07/09/12	79.38	---	32.11	---	47.27
MW-SF-5	07/09/12	79.74	---	34.45	---	45.29
MW-SF-6	07/09/12	76.80	---	31.46	---	45.34
MW-SF-9	07/09/12	74.10	---	26.44	---	47.66
PZ-2	07/09/12	73.96	---	28.16	---	45.80
PZ-3	07/06/12	76.17	30.03	30.06	0.03	46.14
PZ-4	07/06/12	76.13	---	30.21	---	45.92
PZ-5	07/09/12	73.97	---	27.26	---	46.71
TF-8	07/06/12	74.86	---	28.81	---	46.05
TF-9	07/06/12	74.47	---	28.31	---	46.16
TF-10	07/06/12	73.61	---	27.43	---	46.18
TF-11	07/06/12	74.40	---	28.36	---	46.04
TF-13	07/06/12	75.47	---	---	---	---
TF-14	07/06/12	74.35	---	28.30	---	46.05
TF-15	07/06/12	74.78	---	28.98	---	45.80
TF-16	07/05/12	75.89	---	29.80	---	46.09
TF-17	07/05/12	74.88	28.70	28.78	0.08	46.17
TF-18	07/06/12	73.94	27.62	27.69	0.07	46.31
TF-19	07/06/12	75.07	---	28.72	---	46.35
TF-20	07/05/12	75.08	29.64	29.65	0.01	45.44
TF-21	07/06/12	74.96	---	28.77	---	46.19
TF-22	07/05/12	74.76	---	28.61	---	46.15

TABLE 2
SUMMARY OF GROUNDWATER ELEVATIONS
JULY 2012 SENTRY EVENT
 Defense Fuel Support Point, Norwalk, California

Well	Date	Top of Casing Elevation ¹	Depth to Product (feet) ²	Depth to Water (feet) ²	Apparent Product Thickness (feet)	Groundwater Elevation ¹
TF-23	07/05/12	75.31	28.95	29.03	0.08	46.35
TF-24	07/05/12	76.43	---	30.53	---	45.90
TF-25	07/06/12	74.85	---	28.91	---	45.94
TF-26	07/05/12	75.85	---	29.45	---	46.40
WCW-3	07/09/12	76.16	---	29.64	---	46.52
WCW-7	07/09/12	76.44	---	28.34	---	48.10
WCW-13	07/09/12	77.70	---	31.05	---	46.65

Notes

1. Feet above mean sea level, based on Los Angeles County Datum, 1980.
2. Below top of casing.
3. --- = product not detected or not applicable or not available
4. Groundwater elevations were corrected with respect to product thickness measured in the well by means of the following calculation:

$$\text{'Groundwater Elevation} = (\text{Top of Casing Elevation} - \text{Depth to Water}) + \text{Apparent Product Thickness} * 0.84$$

TABLE 3
SUMMARY OF GROUNDWATER ELEVATIONS
OCTOBER 2012 SEMIANNUAL EVENT
 Defense Fuel Support Point, Norwalk, California

Well	Date	Top of Casing Elevation ¹	Depth to Product (feet) ²	Depth to Water (feet) ²	Apparent Product Thickness (feet)	Groundwater Elevation ¹
BW-1	10/15/12	73.17	--- ³	25.26	---	47.91
BW-2	10/15/12	73.57	---	25.58	---	47.99
BW-3	10/15/12	74.16	---	26.19	---	47.97
BW-4	10/15/12	74.61	---	26.93	---	47.68
BW-5	10/15/12	73.59	---	26.11	---	47.48
BW-6	10/15/12	73.48	---	26.00	---	47.48
BW-7	10/15/12	74.65	---	27.15	---	47.50
BW-8	10/15/12	75.08	---	29.61	---	45.47
BW-9	10/15/12	76.19	---	29.22	---	46.97
EXP-1	10/11/12	78.44	---	53.96	---	24.48
EXP-1	10/15/12	78.44	---	53.63	---	24.81
EXP-2	10/11/12	79.43	---	54.09	---	25.34
EXP-2	10/15/12	79.43	---	53.96	---	25.47
EXP-3	10/11/12	77.58	---	52.88	---	24.70
EXP-3	10/15/12	77.58	---	52.80	---	24.78
EXP-4	10/15/12	79.81	---	53.74	---	26.07
EXP-5	10/15/12	72.41	---	47.78	---	24.63
GMW-1	10/15/12	74.77	---	29.49	---	45.28
GMW-2	10/15/12	73.57	---	---	---	---
GMW-3	10/15/12	75.10	---	---	---	---
GMW-4	10/15/12	75.45	29.65	29.80	0.15	NC ⁶
GMW-5	10/11/12	77.61	---	31.98	---	45.63
GMW-6	10/11/12	77.31	---	31.52	---	45.79
GMW-8	10/15/12	73.20	---	---	---	---
GMW-9	10/15/12	77.16	---	31.82	---	45.34
GMW-10	10/15/12	74.67	29.02	29.15	0.13	NC
GMW-11	10/15/12	72.90	---	27.05	---	45.85
GMW-12	10/11/12	75.21	---	29.27	---	45.94
GMW-13	10/15/12	74.17	---	27.89	---	46.28
GMW-14	10/15/12	74.72	---	28.91	---	45.81
GMW-15	10/11/12	76.21	---	30.47	---	45.74
GMW-16	10/11/12	77.00	---	31.32	---	45.68
GMW-17	10/11/12	74.66	---	---	---	---
GMW-19	10/11/12	76.83	---	31.09	---	45.74
GMW-21	10/11/12	76.23	---	30.32	---	45.91
GMW-22	10/15/12	77.24	---	31.05	---	46.19
GMW-23	10/15/12	74.85	---	28.45	---	46.40
GMW-24	10/15/12	77.48	---	31.34	---	46.14
GMW-25	10/15/12	78.14	---	31.88	---	46.26
GMW-26	10/15/12	74.52	---	28.40	---	46.12
GMW-27	10/15/12	74.41	---	29.05	---	45.36
GMW-28	10/15/12	74.68	---	28.50	---	46.18
GMW-29	10/15/12	77.57	---	28.41	---	49.16
GMW-30	10/15/12	74.91	---	28.40	---	46.51
GMW-31	10/11/12	76.50	---	30.87	---	45.63

TABLE 3
SUMMARY OF GROUNDWATER ELEVATIONS
OCTOBER 2012 SEMIANNUAL EVENT
 Defense Fuel Support Point, Norwalk, California

Well	Date	Top of Casing Elevation ¹	Depth to Product (feet) ²	Depth to Water (feet) ²	Apparent Product Thickness (feet)	Groundwater Elevation ¹
GMW-32	10/11/12	74.62	---	28.69	---	45.93
GMW-33	10/15/12	74.88	---	27.43	---	47.45
GMW-34	10/15/12	75.25	---	27.85	---	47.40
GMW-35	10/15/12	76.12	---	28.73	---	47.39
GMW-36	10/15/12	76.66	---	32.11	---	44.55
GMW-37	10/15/12	77.32	---	30.90	---	46.42
GMW-38	10/15/12	75.47	---	29.75	---	45.72
GMW-39	10/15/12	75.05	---	29.58	---	45.47
GMW-41	10/11/12	74.46	---	28.62	---	45.84
GMW-43	10/11/12	74.44	---	29.74	---	44.70
GMW-44	10/11/12	74.45	---	28.98	---	45.47
GMW-45	10/11/12	75.67	---	29.97	---	45.70
GMW-47	10/11/12	75.98	---	30.29	---	45.69
GMW-48	10/11/12	75.03	---	28.50	---	46.53
GMW-56	10/11/12	76.52	---	30.68	---	45.84
GMW-57	10/11/12	76.66	---	30.91	---	45.75
GMW-58	10/11/12	75.48	---	28.78	---	46.70
GMW-59	10/11/12	75.28	---	28.28	---	47.00
GMW-60	10/11/12	76.24	---	30.40	---	45.84
GMW-61	10/11/12	75.60	---	29.84	---	45.76
GMW-62	10/11/12	76.34	30.18	30.67	0.49	46.08 ⁵
GMW-63	10/11/12	77.32	---	31.03	---	46.29
GMW-64	10/11/12	75.84	---	29.48	---	46.36
GMW-65	10/11/12	76.78	---	30.81	---	45.97
GMW-66	10/11/12	77.00	---	31.14	---	45.86
GMW-O-1	10/15/12	71.45	---	24.33	---	47.12
GMW-O-2	10/15/12	72.54	---	25.50	---	47.04
GMW-O-3	10/15/12	72.19	---	25.33	---	46.86
GMW-O-4	10/15/12	71.95	---	25.14	---	46.81
GMW-O-4 MID	10/15/12	72.24	---	32.25	---	39.99
GMW-O-5	10/15/12	72.36	---	25.68	---	46.68
GMW-O-6	10/15/12	71.41	---	23.41	---	48.00
GMW-O-7	10/15/12	70.98	---	22.83	---	48.15
GMW-O-8	10/15/12	70.91	---	22.87	---	48.04
GMW-O-9	10/15/12	73.50	---	26.74	---	46.76
GMW-O-10	10/15/12	73.98	---	28.40	---	45.58
GMW-O-11	10/15/12	74.17	---	28.12	---	46.05
GMW-O-12	10/15/12	73.49	25.44	25.48	0.04	NC
GMW-O-14	10/15/12	74.08	---	27.96	---	46.12
GMW-O-15	10/15/12	74.23	---	31.82	---	42.41
GMW-O-16	10/15/12	74.10	---	27.38	---	46.72
GMW-O-17	10/15/12	73.78	---	26.62	---	47.16
GMW-O-18	10/15/12	74.36	---	29.73	---	44.63
GMW-O-19	10/15/12	74.46	---	27.46	---	47.00
GMW-O-20	10/15/12	73.32	32.95	32.97	0.02	NC

TABLE 3
SUMMARY OF GROUNDWATER ELEVATIONS
OCTOBER 2012 SEMIANNUAL EVENT
 Defense Fuel Support Point, Norwalk, California

Well	Date	Top of Casing Elevation ¹	Depth to Product (feet) ²	Depth to Water (feet) ²	Apparent Product Thickness (feet)	Groundwater Elevation ¹
GMW-O-21	10/15/12	71.43	---	32.50	---	38.93
GMW-O-23	10/15/12	73.63	---	26.48	---	47.15
GMW-O-24	10/15/12	74.39	---	27.90	---	46.49
GMW-SF-7	10/15/12	75.26	---	28.93	---	46.33
GMW-SF-8	10/15/12	76.75	---	30.21	---	46.54
GMW-SF-9	10/15/12	73.05	---	34.21	---	38.84
GMW-SF-10	10/15/12	75.77	---	29.88	---	45.89
GW-1	10/11/12	75.97	---	30.32	---	45.65
GW-2	10/11/12	75.78	---	30.06	---	45.72
GW-3	10/11/12	75.79	---	30.18	---	45.61
GW-5	10/11/12	76.99	---	31.33	---	45.66
GW-6	10/11/12	76.38	---	30.74	---	45.64
GW-7	10/11/12	75.02	---	29.44	---	45.58
GW-8	10/11/12	76.15	---	30.48	---	45.67
GW-13	10/11/12	76.85	---	31.32	---	45.53
GW-14	10/11/12	76.54	---	30.96	---	45.58
GW-15	10/11/12	74.94	---	30.17	---	44.77
GW-16	10/11/12	76.33	---	31.03	---	45.30
GWR-1	10/15/12	77.40	---	29.21	---	48.19
GWR-3	10/15/12	77.60	---	31.21	---	46.39
HL-2	10/15/12	76.94	---	30.22	---	46.72
HL-3	10/15/12	76.86	---	30.64	---	46.22
MW-6	10/15/12	77.20	---	30.91	---	46.29
MW-7	10/15/12	78.13	---	31.81	---	46.32
MW-8	10/15/12	76.06	---	29.48	---	46.58
MW-9	10/15/12	77.11	---	31.30	---	45.81
MW-10	10/11/12	79.12	---	33.42	---	45.70
MW-12	10/15/12	75.76	---	30.31	---	45.45
MW-13	10/11/12	78.25	---	32.56	---	45.69
MW-14	10/11/12	78.60	---	32.93	---	45.67
MW-15	10/15/12	76.99	31.36	32.38	1.02	NC
MW-16	10/11/12	76.87	---	30.87	---	46.00
MW-17	10/11/12	77.86	---	32.05	---	45.81
MW-18 MID	10/15/12	75.67	---	33.41	---	42.26
MW-19 MID	10/15/12	78.14	---	34.29	---	43.85
MW-20 MID	10/15/12	77.19	---	33.05	---	44.14
MW-21 MID	10/15/12	77.55	---	31.23	---	46.32
MW-22 MID	10/11/12	79.57	---	35.12	---	44.45
MW-23 MID	10/11/12	79.59	---	33.89	---	45.70
MW-24	10/11/12	78.51	---	32.90	---	45.61
MW-25	10/11/12	79.15	---	33.48	---	45.67
MW-26	10/11/12	77.40	---	31.71	---	45.69
MW-27	10/11/12	78.46	---	32.62	---	45.84
MW-29	10/11/12	79.13	---	33.29	---	45.84
MW-O-1	10/15/12	75.48	---	28.94	---	46.54

TABLE 3
SUMMARY OF GROUNDWATER ELEVATIONS
OCTOBER 2012 SEMIANNUAL EVENT
Defense Fuel Support Point, Norwalk, California

Well	Date	Top of Casing Elevation ¹	Depth to Product (feet) ²	Depth to Water (feet) ²	Apparent Product Thickness (feet)	Groundwater Elevation ¹
MW-O-2	10/15/12	71.90	---	26.89	---	45.01
MW-SF-1	10/15/12	78.93	---	32.23	---	46.70
MW-SF-2	10/15/12	78.53	---	32.11	---	46.42
MW-SF-3	10/15/12	78.12	---	32.47	---	45.65
MW-SF-4	10/15/12	79.38	---	34.04	---	45.34
MW-SF-5	10/15/12	79.74	---	33.28	---	46.46
MW-SF-6	10/15/12	76.80	---	31.44	---	45.36
MW-SF-9	10/15/12	74.10	---	---	---	---
MW-SF-10	10/15/12	76.53	---	29.27	---	47.26
MW-SF-11	10/15/12	78.56	---	33.28	---	45.28
MW-SF-12	10/15/12	78.07	---	32.12	---	45.95
MW-SF-13	10/15/12	73.40	---	27.01	---	46.39
MW-SF-14	10/15/12	78.16	---	30.02	---	48.14
MW-SF-15	10/15/12	78.27	---	33.15	---	45.12
MW-SF-16	10/15/12	78.21	---	32.47	---	45.74
PW-1	10/15/12	75.52	---	27.76	---	47.76
PW-2	10/15/12	74.71	---	---	---	---
PW-3	10/15/12	73.71	---	---	---	---
PZ-2	10/15/12	73.96	---	27.76	---	46.20
PZ-3	10/11/12	76.17	30.14	30.37	0.23	45.99
PZ-5	10/15/12	73.97	---	28.25	---	45.72
PZ-6	10/15/12	73.91	---	---	---	---
PZ-7A	10/15/12	73.87	---	27.24	---	46.63
PZ-7B	10/15/12	73.79	---	27.22	---	46.57
PZ-8A	10/15/12	75.81	---	30.01	---	45.80
PZ-8B	10/15/12	75.69	---	30.71	---	44.98
PZ-9A	10/15/12	76.14	---	30.18	---	45.96
PZ-9B	10/15/12	76.26	---	30.54	---	45.72
PZ-10	10/15/12	74.34	---	29.81	---	44.53
TF-8	10/11/12	74.86	---	29.03	---	45.83
TF-9	10/11/12	74.47	---	28.47	---	46.00
TF-10	10/11/12	73.61	---	27.52	---	46.09
TF-11	10/11/12	74.40	---	28.46	---	45.94
TF-13	10/11/12	75.47	---	---	---	---
TF-14	10/11/12	74.35	---	---	---	---
TF-15	10/11/12	74.78	---	29.73	---	45.05
TF-16	10/11/12	75.89	---	29.87	---	46.02
TF-17	10/11/12	74.88	29.00	29.09	0.09	45.87
TF-18	10/11/12	73.94	27.72	28.03	0.31	46.17
TF-19	10/11/12	75.07	---	28.85	---	46.22
TF-20	10/11/12	75.08	29.94	29.96	0.02	45.14
TF-21	10/11/12	74.96	---	28.92	---	46.04
TF-22	10/11/12	74.76	28.94	28.95	0.01	45.82
TF-23	10/11/12	75.31	29.27	29.36	0.09	46.03
TF-24	10/11/12	76.43	---	30.26	---	46.17

TABLE 3
SUMMARY OF GROUNDWATER ELEVATIONS
OCTOBER 2012 SEMIANNUAL EVENT
 Defense Fuel Support Point, Norwalk, California

Well	Date	Top of Casing Elevation ¹	Depth to Product (feet) ²	Depth to Water (feet) ²	Apparent Product Thickness (feet)	Groundwater Elevation ¹
TF-25	10/11/12	74.85	---	29.12	---	45.73
TF-26	10/11/12	75.85	---	29.89	---	45.96
VEW-1	10/15/12	---	---	---	---	---
VEW-2	10/15/12	---	---	---	---	---
WCW-1	10/11/12	72.86	---	25.80	---	47.06
WCW-2	10/11/12	75.34	---	28.86	---	46.48
WCW-3	10/15/12	76.16	---	29.98	---	46.18
WCW-4	10/11/12	78.05	---	32.18	---	45.87
WCW-5	10/11/12	73.49	---	26.48	---	47.01
WCW-6	10/11/12	75.52	---	29.22	---	46.30
WCW-7	10/15/12	76.44	---	30.41	---	46.03
WCW-8	10/11/12	77.34	---	31.72	---	45.62
WCW-9	10/11/12	77.74	---	32.10	---	45.64
WCW-10	10/11/12	74.06	---	26.24	---	47.82
WCW-11	10/11/12	75.29	---	28.01	---	47.28
WCW-12	10/11/12	76.27	---	29.72	---	46.55
WCW-13	10/15/12	77.70	---	31.38	---	46.32
WCW-14	10/11/12	78.81	---	32.57	---	46.24

Notes

1. Feet above mean sea level, based on Los Angeles County Datum, 1980.
2. Below top of casing.
3. --- = product not detected or not applicable or not calculated.
4. NA = Groundwater elevations were not calculated from depth to water measurements due to recent changes in well casing elevations. Resurveyed casing elevations are pending.
5. Groundwater elevations were corrected with respect to product thickness measured in the well by means of the following calculation:

$$\text{'Groundwater Elevation} = (\text{Top of Casing Elevation} - \text{Depth to Water}) + \text{Apparent Product Thickness} * 0.84$$
6. NC = Groundwater elevations were not calculated due to the presence of measurable product in the well.

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL DATA
JULY 2012 SENTRY EVENT

Defense Fuel Support Point, Norwalk, California

Well	Sample Date	TPHg ¹	TPHjp5 ²	TPHd ³	Benzene	Toluene	Ethyl-benzene	Xylenes ⁴	1,2-DCA ⁵	MTBE ⁶	TBA ⁷	DIPE ⁸	ETBE ⁹	TAME ¹⁰
Results reported in micrograms per liter (µg/L)														
EXP-1	07/09/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
EXP-1	07/09/12	< 100	< 100 ¹¹	---	< 0.50	< 0.50	< 0.50	<1.0	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
EXP-2	07/09/12	< 50	---	< 100	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
EXP-2	07/09/12	< 100	210	---	< 0.50	< 0.50	< 0.50	<1.0	< 0.50	< 0.50	11	< 2.0	< 2.0	< 2.0
EXP-3	07/09/12	< 50	---	190	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
EXP-3	07/09/12	< 100	250	---	< 0.50	< 0.50	< 0.50	<1.0	< 0.50	< 0.50	9.5 J	< 2.0	< 2.0	< 2.0
EXP-3	08/29/12	---	---	< 50	---	---	---	---	---	---	---	---	---	---
EXP-3 DUP ¹²	08/29/12	---	---	< 50	---	---	---	---	---	---	---	---	---	---
EXP-5	07/09/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-18	07/10/12	---	7800	---	94	0.42 J¹³	0.94	3.89	< 0.50	3.9	27	< 2.0	< 2.0	< 2.0
GMW-36	07/11/12	5100	---	12000	< 2.5	6.8	39	300	< 5	< 2.5	140	< 5	< 5	< 5
GMW-38	07/10/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-39	07/10/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-47	07/10/12	---	2600	---	0.15 J	< 0.50	0.29 J	0.31 J	< 0.50	6.5	250	< 2.0	< 2.0	< 2.0
GMW-57	07/09/12	---	330	---	< 0.50	< 0.50	< 0.50	<1.0	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
GMW-58	07/10/12	---	890	---	27	< 0.50	< 0.50	<1.0	< 0.50	0.46 J	18	< 2.0	< 2.0	< 2.0
GMW-59	07/10/12	---	6300	---	1100	< 5.0	1.5 J	<10.0	< 5.0	9.7	< 100	< 20	< 20	< 20
GMW-59 DUP	07/10/12	---	---	---	1100	< 5.0	1.6 J	<10.0	< 5.0	9.3	< 100	< 20	< 20	< 20
GMW-60	07/10/12	---	1200	---	5.1	< 0.50	0.7	0.24 J	< 0.50	< 0.50	69	< 2.0	< 2.0	< 2.0
GMW-61	07/10/12	---	510	---	110	0.29 J	0.87	0.28 J	< 0.50	< 0.50	14	< 2.0	< 2.0	< 2.0
GMW-63	07/09/12	---	< 100	---	< 0.50	< 0.50	< 0.50	<1.0	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
GMW-64	07/09/12	---	< 100	---	< 0.50	< 0.50	< 0.50	<1.0	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
GMW-65	07/09/12	---	< 100	---	< 0.50	< 0.50	< 0.50	<1.0	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
GMW-O-1	07/10/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-2	07/10/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-3	07/10/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-14	07/10/12	48000	---	390	12000	3500	1200	3700	< 100	< 50	< 1000	270	< 100	< 100
GMW-O-14 DUP	07/10/12	46000	---	1300	12000	3400	1200	3700	< 100	< 50	< 1000	270	< 100	< 100
GMW-O-15	07/11/12	17000	---	13000	6700	63	120	270	< 100	1500	1600	< 100	< 100	< 100
GMW-O-16	07/10/12	< 50	---	< 50	2.5	1.1	< 0.5	0.7	< 0.5	0.57	< 10	< 1	< 1	< 1
GMW-O-18	07/11/12	180	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	14000	< 1	< 1	< 1
GMW-O-19	07/10/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GW-2	07/10/12	---	110	---	2.4	< 0.50	< 0.50	0.24 J	6.2	0.69	10	0.79 J	< 2.0	< 2.0
GW-13	07/09/12	---	< 100	---	< 0.50	< 0.50	< 0.50	<1.0	0.6	0.78	< 10	< 2.0	< 2.0	< 2.0
GW-14	07/10/12	---	2200	---	18	< 0.50	16	10.57	< 0.50	8.2	5.1 J	< 2.0	< 2.0	< 2.0
GW-14 DUP	07/10/12	---	---	---	18	< 0.50	16	10.04	< 0.50	7.8	< 10	< 2.0	< 2.0	< 2.0
MW-11	07/10/12	---	780	---	< 0.50	< 0.50	< 0.50	<1.0	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL DATA
JULY 2012 SENTRY EVENT

Defense Fuel Support Point, Norwalk, California

Well	Sample Date	TPHg ¹	TPHjp5 ²	TPHd ³	Benzene	Toluene	Ethyl-benzene	Xylenes ⁴	1,2-DCA ⁵	MTBE ⁶	TBA ⁷	DIPE ⁸	ETBE ⁹	TAME ¹⁰
Results reported in micrograms per liter (µg/L)														
MW-14	07/09/12	---	< 100	---	< 0.50	< 0.50	< 0.50	<1.0	4	0.72	< 10	1.1 J	< 2.0	< 2.0
MW-22 MID	07/09/12	---	< 100	---	< 0.50	< 0.50	< 0.50	<1.0	4.4	5.8	< 10	0.43 J	< 2.0	< 2.0
PZ-5	07/10/12	7600	---	360	3400	31	150	200	< 20	700	66000	< 20	< 20	< 20
WCW-3	07/09/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	2.2	< 0.5	< 10	< 1	< 1	< 1
WCW-7	07/10/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	16	0.84	< 10	2.1	< 1	< 1
WCW-7 DUP	07/10/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	15	0.71	< 10	1.6	< 1	< 1
WCW-13	07/09/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1

Notes:

¹TPHg = total extractable petroleum hydrocarbons quantified using a gasoline standard

²TPHjp5 = total extractable petroleum hydrocarbons quantified using a jet propellant 5 standard.

³TPHd = total extractable petroleum hydrocarbons quantified using a site diesel standard

⁴Xylenes = total of m,p-xylene and o-xylene when detected

⁵1,2-DCA = 1,2-dichloroethane

⁶MTBE = methyl tert-butyl ether

⁷TBA = tertiary butyl alcohol

⁸DIPE = diisopropyl ether

⁹ETBE = ethyl tertiary butyl ether

¹⁰TAME = tertiary amyl methyl ether

¹¹<100 = compound not detected at or above the indicated reporting limit

¹²DUP = duplicate

TABLE 5
SUMMARY OF MISCELLANEOUS COMPOUNDS DETECTED IN GROUNDWATER SAMPLES
JULY 2012 SENTRY EVENT

Defense Fuel Support Point, Norwalk, California

Well	Sample Date	1,1,2-Trichloroethane	1,1-Dichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Butanone	Acetone	Bromodichloromethane	c-1,2-Dichloroethene	Carbon disulfide	Isopropylbenzene	Naphthalene	n-Butylbenzene	n-Propylbenzene	p-Isopropyltoluene	sec-Butylbenzene	tert-Butylbenzene	
Results reported in micrograms per liter (µg/L)																		
EXP-3	07/09/12	< 1 ¹	< 1	< 1	< 1	---	< 10	< 1	---	< 2.5	< 1	< 10	< 1	< 1	---	< 1	< 1	
EXP-3	07/09/12	< 1.0	< 1.0	< 1.0	< 1.0	4.1 J ⁴	< 20	< 1.0	< 1.0	< 10	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
GMW-18	07/10/12	< 1.0	< 1.0	< 1.0	< 1.0	< 10	27	0.28 J	< 1.0	0.46 J	4.3	4.6 J	0.31 J	2.3	< 1.0	0.62 J	< 1.0	
GMW-36	07/11/12	< 5	< 5	300	160	---	< 100	< 5	---	< 25	< 5	86	6	14	---	< 5	< 5	
GMW-47	07/10/12	0.4 J	1.1	< 1.0	< 1.0	< 10	< 20	< 1.0	< 1.0	< 10	8.9	< 10	< 1.0	0.75 J	< 1.0	1.5	0.77 J	
GMW-57	07/09/12	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 20	< 1.0	< 1.0	< 10	0.67 J	< 10	0.5 J	< 1.0	< 1.0	< 1.0	0.3 J	
GMW-58	07/10/12	< 1.0	0.46 J	< 1.0	< 1.0	< 10	< 20	< 1.0	< 1.0	< 10	4.1	< 10	< 1.0	1.5	< 1.0	0.43 J	0.31 J	
GMW-59	07/10/12	< 10	< 10	< 10	< 10	< 100	< 200	< 10	< 10	< 100	32	< 100	< 10	29	< 10	3.9 J	< 10	
GMW-59 DUP ³	07/10/12	< 10	< 10	< 10	< 10	< 100	< 200	< 10	< 10	< 100	33	< 100	< 10	29	< 10	3.8 J	< 10	
GMW-60	07/10/12	< 1.0	< 1.0	< 1.0	< 1.0	< 10	81	< 1.0	< 1.0	< 10	22	< 10	0.57 J	18	< 1.0	2.7	0.35 J	
GMW-61	07/10/12	< 1.0	< 1.0	< 1.0	< 1.0	< 10	18 J	< 1.0	< 1.0	< 10	39	10	1.1	15	< 1.0	5.6	0.74 J	
GMW-O-14	07/10/12	< 100	< 100	630	130	---	< 2000	< 100	---	< 500	< 100	< 400	< 100	< 100	---	< 100	< 100	
GMW-O-14 DUP	07/10/12	< 100	< 100	630	130	---	< 2000	< 100	---	< 500	< 100	< 400	< 100	< 100	---	< 100	< 100	
GMW-O-15	07/11/12	< 100	< 100	170	< 100	---	< 2000	< 100	---	< 500	< 100	< 400	< 100	< 100	---	< 100	< 100	
GW-14	07/10/12	< 1.0	< 1.0	26	9.1	< 10	< 20	< 1.0	0.65 J	< 10	24	13	1.3	22	0.57 J	4.9	1.5	
GW-14 DUP	07/10/12	< 1.0	< 1.0	25	8.5	< 10	< 20	< 1.0	0.65 J	< 10	23	13	1.3	21	0.54 J	4.7	1.4	
MW-11	07/10/12	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 20	< 1.0	< 1.0	< 10	8.6	< 10	0.25 J	0.25 J	< 1.0	1.6	0.61 J	
PZ-5	07/10/12	< 20	< 20	35	< 20	---	< 400	< 20	---	< 100	< 20	< 80	< 20	< 20	---	< 20	< 20	

1. < 1 = compound not detected at or above the indicated reporting limit.

2. --- = compound not analyzed.

3. DUP = duplicate.

4. J = Estimated value

**TABLE 6
SUMMARY OF GROUNDWATER ANALYTICAL DATA
SECOND SEMIANNUAL 2012 EVENT**

Defense Fuel Support Point, Norwalk, California

Well	Sample Date	TPHg ¹	TPHj ⁵ 2	TPHd ³	Benzene	Toluene	Ethyl-benzene	Xylenes ⁴	1,2-DCA ⁵	MTBE ⁶	TBA ⁷	DIPE ⁸	ETBE ⁹	TAME ¹⁰
Results reported in micrograms per liter (µg/L)														
EXP-1	10/15/12	< 50	--- ¹¹	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
EXP-1	10/15/12	< 100	< 100 ¹²	---	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
EXP-2	10/15/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
EXP-2	10/15/12	< 100	< 100	---	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
EXP-3	10/15/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
EXP-3	10/15/12	< 100	< 100	---	< 0.50	< 0.50	< 0.50	< 1.0	0.45 J	< 0.50	< 10	< 2.0	< 2.0	< 2.0
EXP-5	10/16/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-1	10/17/12	< 500	---	880	< 2.5	< 2.5	< 2.5	< 2.5	< 5	< 2.5	< 50	< 5	< 5	< 5
GMW-4	10/19/12	1300	---	8100	36	< 2.5	< 2.5	< 2.5	< 5	< 2.5	< 50	< 5	< 5	< 5
GMW-6	10/15/12	---	< 100	---	< 0.50	< 0.50	0.17 J¹³	< 1.0	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
GMW-10	10/19/12	10000	---	7500	1300	380	270	1400	< 10	< 5	< 100	< 10	< 10	< 10
GMW-12	10/15/12	---	280	---	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
GMW-13	10/16/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-14	10/17/12	< 50	---	150	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-15	10/15/12	---	460	---	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	12	< 10	< 2.0	< 2.0	< 2.0
GMW-16	10/15/12	---	< 100	---	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
GMW-19	10/15/12	---	< 100	---	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	1.1	< 10	< 2.0	< 2.0	< 2.0
GMW-22	10/18/12	32000	---	1300	16000	120	420	140	< 200	180	< 2000	< 200	< 200	< 200
GMW-27	10/18/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	300	5	< 1	< 1
GMW-27 DUP ¹⁴	10/18/12	< 100	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 1	0.57	460	7.4	< 1	< 1
GMW-31	10/16/12	---	< 100	---	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
GMW-32	10/19/12	---	1300	---	0.2 J	< 0.50	0.14 J	0.32 J	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
GMW-36	10/18/12	8800	---	12000	350	33	28	490	< 5	70	100	< 5	< 5	< 5
GMW-37	10/16/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-38	10/17/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-39	10/17/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	47	< 1	< 1	< 1
GMW-39 DUP	10/17/12	< 50	---	< 100	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	66	< 1	< 1	< 1
GMW-41	10/16/12	---	< 100	---	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
GMW-43	10/16/12	---	< 100	---	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
GMW-44	10/16/12	---	< 100	---	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
GMW-45	10/17/12	---	1300	---	44	< 0.50	1.6	< 1.0	< 0.50	< 0.50	20	< 2.0	< 2.0	< 2.0
GMW-47	10/17/12	---	1400	---	0.46 J	< 0.50	0.17 J	< 1.0	< 0.50	4.5	310	< 2.0	< 2.0	< 2.0
GMW-57	10/16/12	---	110	---	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0

**TABLE 6
SUMMARY OF GROUNDWATER ANALYTICAL DATA
SECOND SEMIANNUAL 2012 EVENT**

Defense Fuel Support Point, Norwalk, California

Well	Sample Date	TPHg ¹	TPHjp ⁵ ²	TPHd ³	Benzene	Toluene	Ethyl-benzene	Xylenes ⁴	1,2-DCA ⁵	MTBE ⁶	TBA ⁷	DIPE ⁸	ETBE ⁹	TAME ¹⁰
Results reported in micrograms per liter (µg/L)														
GMW-58	10/17/12	---	790	---	18	< 0.50	< 0.50	<1.0	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
GMW-59	10/19/12	3400	4800	---	1000	< 5.0	1.8 J	<10.0	< 5.0	7.8	< 100	< 20	< 20	< 20
GMW-59 DUP	10/19/12	---	5500	---	1000	< 5.0	1.8 J	<10.0	< 5.0	7.5	< 100	< 20	< 20	< 20
GMW-60	10/17/12	630	1100	---	1.5	< 0.50	0.4 J	<1.0	< 0.50	< 0.50	280	< 2.0	< 2.0	< 2.0
GMW-60 DUP	10/17/12	---	1200	---	1.4	< 0.50	0.3 J	<1.0	< 0.50	< 0.50	330	< 2.0	< 2.0	< 2.0
GMW-61	10/19/12	1500	800	---	290	0.87	2.5	0.63	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
GMW-61 DUP	10/19/12	---	880	---	250	0.87	2.4	0.52	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
GMW-63	10/17/12	---	< 100	---	< 0.50	< 0.50	< 0.50	<1.0	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
GMW-64	10/17/12	---	< 100	---	< 0.50	< 0.50	< 0.50	<1.0	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
GMW-65	10/17/12	---	< 100	---	< 0.50	< 0.50	< 0.50	<1.0	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
GMW-66	10/17/12	---	< 100	---	< 0.50	< 0.50	< 0.50	<1.0	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
GMW-O-1	10/16/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-2	10/16/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-3	10/16/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-4	10/16/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-4 MID	10/16/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-5	10/16/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-8	10/16/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-9	10/16/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-10	10/19/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-10 DUP	10/19/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-12	10/19/12	12000	---	120000	4700	< 25	< 25	< 25	< 50	< 25	< 500	< 50	< 50	< 50
GMW-O-14	10/18/12	15000	---	2700	2600	1100	520	1800	< 50	< 25	< 500	70	< 50	< 50
GMW-O-14 DUP	10/18/12	18000	---	2800	2700	1300	700	2400	< 50	< 25	< 500	< 50	< 50	< 50
GMW-O-15	10/18/12	210	---	140	50	< 0.5	3.3	5.9	< 1	13	2600	< 1	< 1	< 1
GMW-O-16	10/17/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	0.89	< 0.5	0.7	< 10	< 1	< 1	< 1
GMW-O-17	10/16/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-18	10/30/12	110	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	11000	< 1	< 1	< 1
GMW-O-19	10/16/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-20	10/19/12	36000	---	340000	6100	1000	360	2700	< 50	< 25	< 500	< 50	< 50	< 50
GMW-O-21	10/19/12	1200	---	880	370	71	4.8	66	< 2	3.2	96	8.7	< 2	< 2
GMW-O-23	10/19/12	29000	---	31000	7000	5000	130	1900	< 100	400	< 1000	< 100	< 100	< 100
GMW-O-24	10/16/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.99	< 10	< 1	< 1	< 1

**TABLE 6
SUMMARY OF GROUNDWATER ANALYTICAL DATA
SECOND SEMIANNUAL 2012 EVENT**

Defense Fuel Support Point, Norwalk, California

Well	Sample Date	TPHg ¹	TPHjp5 ²	TPHd ³	Benzene	Toluene	Ethyl-benzene	Xylenes ⁴	1,2-DCA ⁵	MTBE ⁶	TBA ⁷	DIPE ⁸	ETBE ⁹	TAME ¹⁰
Results reported in micrograms per liter (µg/L)														
GMW-O-24 DUP	10/16/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.1	< 10	< 1	< 1	< 1
GMW-SF-7	10/16/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-SF-8	10/16/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-SF-9	10/17/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	270	< 1	< 1	< 1
GMW-SF-10	10/17/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-SF-10 DUP	10/17/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GW-6	10/19/12	---	< 100	---	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	0.67	< 10	< 2.0	< 2.0	< 2.0
GWR-1	10/18/12	440	---	240	140	2.2	< 1.5	1.5	< 3	8.6	68	15	< 3	< 3
HL-2	10/16/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
MW-6	10/17/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
MW-7	10/17/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	1	< 0.5	< 10	< 1	< 1	< 1
MW-8	10/17/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	220	< 1	< 1	< 1
MW-9	10/17/12	1200	---	2500	9.1	< 2.5	< 2.5	< 2.5	< 5	3.7	< 50	< 5	< 5	< 5
MW-12	10/18/12	< 50	---	< 100	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
MW-13	10/16/12	---	< 100	---	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
MW-14	10/18/12	---	< 100	---	< 0.50	< 0.50	< 0.50	< 1.0	7	1.9	< 10	1.3 J	< 2.0	< 2.0
MW-15	10/19/12	940	---	34000	< 1	< 1	< 1	< 1	< 2	< 1	< 20	< 2	< 2	< 2
MW-16	10/16/12	---	< 100	---	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
MW-17	10/16/12	---	< 100	---	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
MW-18 MID	10/18/12	96	---	170	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	49	3.6	< 1	< 1
MW-19 MID	10/17/12	< 50	---	77	< 0.5	< 0.5	< 0.5	< 0.5	5.3	1.1	360	28	< 1	< 1
MW-20 MID	10/17/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	6.8	7.6	12	6.8	< 1	< 1
MW-22 MID	10/18/12	---	< 100	---	< 0.50	< 0.50	< 0.50	< 1.0	6.4	12	< 10	0.85 J	< 2.0	< 2.0
MW-23 MID	10/19/12	---	3600	---	< 0.50	< 0.50	0.25 J	0.43 J	< 0.50	4.3	< 10	< 2.0	< 2.0	< 2.0
MW-24	10/16/12	---	< 100	---	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	1.7	< 10	< 2.0	< 2.0	< 2.0
MW-25	10/16/12	---	< 100	---	< 0.50	< 0.50	< 0.50	< 1.0	3.4	0.67	< 10	< 2.0	< 2.0	< 2.0
MW-26	10/16/12	---	1400	---	3.9	0.5	2.2	0.69 J	< 0.50	1.4	5.6 J	< 2.0	< 2.0	< 2.0
MW-27	10/16/12	---	170	---	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	5	12	< 2.0	< 2.0	< 2.0
MW-O-1	10/19/12	4500	---	8800	570	160	94	540	< 4	17	59	< 4	< 4	< 4
MW-SF-1	10/18/12	3700	---	6400	1500	< 10	15	< 10	< 20	45	< 200	< 20	< 20	< 20
MW-SF-4	10/19/12	8900	---	9900	2200	40	280	420	< 20	160	410	< 20	< 20	< 20
MW-SF-11	10/18/12	77000	---	320	18000	420	2600	6500	< 200	< 100	< 2000	< 200	< 200	< 200
MW-SF-14	10/18/12	9800	---	200	5100	24	< 20	64	< 40	58	< 400	< 40	< 40	< 40

TABLE 6
SUMMARY OF GROUNDWATER ANALYTICAL DATA
SECOND SEMIANNUAL 2012 EVENT

Defense Fuel Support Point, Norwalk, California

Well	Sample Date	TPHg ¹	TPHjp5 ²	TPHd ³	Benzene	Toluene	Ethyl-benzene	Xylenes ⁴	1,2-DCA ⁵	MTBE ⁶	TBA ⁷	DIPE ⁸	ETBE ⁹	TAME ¹⁰
Results reported in micrograms per liter (µg/L)														
PW-3	10/17/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
PZ-3	10/19/12	---	5000	---	280	< 0.50	150	361.7	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
PZ-3 DUP	10/19/12	---	5900	---	270	< 0.50	140	341.7	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
PZ-5	10/18/12	9900	---	520	3300	55	200	180	< 80	5600	83000	< 80	< 80	< 80
PZ-5 DUP	10/18/12	12000	---	520	4400	51	290	190	< 50	7000	110000	< 50	< 50	< 50
PZ-10	10/17/12	< 500	---	970	32	< 2.5	< 2.5	< 2.5	< 5	< 2.5	< 50	6.4	< 5	< 5
WCW-2	10/18/12	---	< 100	---	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
WCW-3	10/16/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	1.7	< 0.5	< 10	< 1	< 1	< 1
WCW-4	10/18/12	---	< 100	---	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	0.53	< 10	< 2.0	< 2.0	< 2.0
WCW-5	10/18/12	---	< 100	---	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
WCW-6	10/18/12	---	< 100	---	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
WCW-7	10/17/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	9.2	0.56	< 10	1.5	< 1	< 1
WCW-8	10/18/12	---	130	---	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
WCW-12	10/18/12	---	< 100	---	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
WCW-13	10/16/12	< 50	---	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
WCW-14	10/18/12	---	< 100	---	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0

Notes:

1. TPHg = total petroleum hydrocarbons quantified using a gasoline standard
2. TPHjp5 = total petroleum hydrocarbons quantified using a jet propellant 5 standard
3. TPHd = total petroleum hydrocarbons quantified using a site diesel standard
4. Xylenes = total of m,p-xylene and o-xylene when detected
5. 1,2-DCA = 1,2-dichloroethane
6. MTBE = methyl tertiary-butyl ether
7. TBA = tert-butyl alcohol
8. DIPE = diisopropyl ether
9. ETBE = ethyl tertiary butyl ether
10. TAME = tertiary amyl methyl ether
11. --- = compound not analyzed
12. < 100 = not detected at or above the reporting limit shown
13. J = Estimated value
14. DUP = duplicate

TABLE 7
SUMMARY OF MISCELLANEOUS COMPOUNDS IN GROUNDWATER
OCTOBER 2012 SEMIANNUAL EVENT

Defense Fuel Support Point, Norwalk, California

Well	Sample Date	1,1-Dichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Hexanone	4-Isopropyltoluene	Acetone	Chloroform	Isopropylbenzene	Naphthalene	n-Butylbenzene	n-Propylbenzene	p-Isopropyltoluene	sec-Butylbenzene	tert-Butylbenzene
Results reported in micrograms per liter (µg/L)															
GMW-4	10/19/12	< 5 ¹	< 5	< 5	< 50	< 5	< 100	< 5	11	23	< 5	< 5	---	< 5	< 5
GMW-10	10/19/12	< 10	230	90	< 100	< 10	< 200	< 10	24	290	< 10	16	---	< 10	< 10
GMW-32	10/19/12	< 1.0	< 1.0	< 1.0	< 10	---	< 20	< 1.0	2.7	< 10	< 1.0	0.88 J	< 1.0	0.92 J	0.6 J
GMW-36	10/18/12	< 5	330	250	< 50	15	< 100	< 5	< 5	160	19	7.6	---	< 5	< 5
GMW-45	10/17/12	0.43 J ⁴	< 1.0	< 1.0	< 10	---	< 20	< 1.0	97	170	2.9	97	< 1.0	12	1.6
GMW-47	10/17/12	0.55 J	< 1.0	< 1.0	< 10	---	< 20	< 1.0	2.1	< 10	< 1.0	0.33 J	< 1.0	0.36 J	0.46 J
GMW-57	10/16/12	< 1.0	0.44 J	< 1.0	< 10	---	< 20	< 1.0	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
GMW-58	10/17/12	0.4 J	< 1.0	< 1.0	< 10	---	< 20	< 1.0	5.3	2.6 J	< 1.0	2	< 1.0	0.61 J	0.48 J
GMW-59	10/19/12	< 10	< 10	< 10	< 100	---	< 200	< 10	25	28 J	< 10	21	< 10	3.4 J	< 10
GMW-59 DUP ³	10/19/12	< 10	< 10	< 10	< 100	---	< 200	< 10	25	< 100	< 10	21	< 10	3.1 J	< 10
GMW-60	10/17/12	< 1.0	< 1.0	< 1.0	< 10	---	12 J	< 1.0	16	5.3 J	1.2	6.3	< 1.0	4.6	1.2
GMW-60 DUP	10/17/12	< 1.0	< 1.0	< 1.0	< 10	---	< 20	< 1.0	15	3.3 J	1	6	< 1.0	4.4	1.1
GMW-61	10/19/12	< 1.0	< 1.0	< 1.0	< 10	---	19 J	< 1.0	47	47	2	26	< 1.0	6.9	1.1
GMW-61 DUP	10/19/12	< 1.0	< 1.0	< 1.0	< 10	---	18 J	< 1.0	45	46	2	26	< 1.0	6.8	1.1
GMW-O-14	10/18/12	< 50	340	110	< 500	< 50	< 1000	< 50	< 50	210	< 50	< 50	---	< 50	< 50
GMW-O-14 DUP	10/18/12	< 50	480	140	< 500	< 50	< 1000	< 50	< 50	< 200	< 50	63	---	< 50	< 50
GMW-O-15	10/18/12	< 1	2.5	2	< 10	< 1	< 20	< 1	< 1	< 10	< 1	< 1	---	< 1	< 1
GMW-O-16	10/17/12	< 1	1.2	< 1	< 5	< 1	< 10	< 1	< 1	< 10	< 1	< 1	---	< 1	< 1
GMW-O-20	10/19/12	< 50	1200	380	< 500	65	< 1000	< 50	< 50	760	54	83	---	< 50	< 50
GMW-O-21	10/19/12	< 2	11	7.8	39	< 2	< 40	< 2	< 2	21	< 2	< 2	---	< 2	< 2

TABLE 7
SUMMARY OF MISCELLANEOUS COMPOUNDS IN GROUNDWATER
OCTOBER 2012 SEMIANNUAL EVENT

Defense Fuel Support Point, Norwalk, California

Well	Sample Date	1,1-Dichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Hexanone	4-Isopropyltoluene	Acetone	Chloroform	Isopropylbenzene	Naphthalene	n-Butylbenzene	n-Propylbenzene	p-Isopropyltoluene	sec-Butylbenzene	tert-Butylbenzene
Results reported in micrograms per liter (µg/L)															
GMW-O-23	10/19/12	< 100	260	150	< 1000	< 100	< 2000	< 100	< 100	< 400	< 100	< 100	---	< 100	< 100
GMW-SF-8	10/16/12	< 1	< 1	< 1	< 5	< 1	< 10	1.3	< 1	< 10	< 1	< 1	---	< 1	< 1
MW-9	10/17/12	< 5	< 5	< 5	< 50	< 5	< 100	< 5	31	68	< 5	24	---	7.9	< 5
MW-17	10/16/12	< 1.0	< 1.0	< 1.0	< 10	---	< 20	< 1.0	< 1.0	< 10	0.26 J	< 1.0	< 1.0	< 1.0	< 1.0
MW-23 MID	10/19/12	< 1.0	0.43 J	< 1.0	< 10	---	< 20	< 1.0	1.8	< 10	0.56 J	0.72 J	< 1.0	1.3	< 1.0
MW-26	10/16/12	< 1.0	67	< 1.0	< 10	---	< 20	< 1.0	67	130	3.1	77	< 1.0	13	1.6
MW-27	10/16/12	< 1.0	3.3	< 1.0	< 10	---	< 20	< 1.0	3.2	< 10	< 1.0	1.4	< 1.0	0.54 J	0.58 J
MW-O-1	10/19/12	< 4	140	27	< 40	6.5	< 80	< 4	4.8	26	< 4	5.9	---	< 4	< 4
MW-SF-1	10/18/12	< 20	< 20	< 20	< 200	< 20	< 400	< 20	< 20	< 80	< 20	32	---	< 20	< 20
MW-SF-4	10/19/12	< 20	140	59	< 200	< 20	< 400	< 20	< 20	< 80	< 20	26	---	< 20	< 20
MW-SF-11	10/18/12	< 200	2200	560	< 2000	< 200	< 4000	< 200	< 200	< 800	< 200	380	---	< 200	< 200
MW-SF-14	10/18/12	< 40	< 40	< 40	< 400	< 40	< 800	< 40	< 40	< 160	< 40	57	---	< 40	< 40
PZ-3	10/19/12	< 1.0	110	40	< 10	---	< 20	< 1.0	33	47	6.6	31	6.1	8	1.5
PZ-3 DUP	10/19/12	< 1.0	90	33	< 10	---	< 20	< 1.0	29	46	4.8	26	4.7	6.3	1.2
PZ-5 DUP	10/18/12	< 50	65	< 50	< 500	< 50	< 1000	< 50	< 50	< 200	< 50	< 50	---	< 50	< 50
PZ-10	10/17/12	< 5	< 5	< 5	88	< 5	< 100	< 5	6.5	< 20	< 5	< 5	---	< 5	< 5
WCW-5	10/18/12	< 1.0	< 1.0	< 1.0	< 10	---	< 20	0.58 J	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

1. < 5 = not detected at or above the reporting limit shown
2. --- = compound not analyzed
3. DUP = duplicate
4. J = Estimated value

TABLE 8
SUMMARY OF QUALITY ASSURANCE/QUALITY CONTROL ANALYTICAL DATA
2012 THIRD QUARTER SENTRY AND SECOND SEMIANNUAL EVENTS

Defense Fuel Support Point, Norwalk, California

Sample ID	Sample Date	TPHg ¹	TPHd ²	Benzene	Toluene	Ethyl-benzene	Xylenes ³	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)													
EB-1	07/09/12	< 50	< 50	< 0.5 ¹¹	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
TB-1	07/09/12	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
TB-01	07/09/12	---	---	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
EB-2	07/10/12	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
TB-2	07/10/12	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
TB-02	07/10/12	---	---	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
EB-3	07/11/12	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
TB-3	07/11/12	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
EB-1	08/29/12	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
TB-1	08/29/12	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
EB-1	09/26/12	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
TB-1	09/26/12	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
TB-2	10/15/12	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
TB-01	10/15/12	---	---	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
EB-1	10/16/12	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
EB-2	10/16/12	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
TB-1	10/16/12	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
TB-2	10/16/12	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
TB-02	10/16/12	---	---	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
EB-1	10/17/12	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
EB-2	10/17/12	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
TB-1	10/17/12	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
TB-2	10/17/12	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
TB-03	10/17/12	---	---	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
EB-1	10/18/12	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
EB-2	10/18/12	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
TB-1	10/18/12	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
TB-04	10/18/12	---	---	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
EB-1	10/19/12	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
EB-2	10/19/12	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
TB-1	10/19/12	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
TB-05	10/19/12	---	---	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0

TABLE 8
SUMMARY OF QUALITY ASSURANCE/QUALITY CONTROL ANALYTICAL DATA
2012 THIRD QUARTER SENTRY AND SECOND SEMIANNUAL EVENTS

¹ TPHg = total petroleum hydrocarbons quantified using a gasoline standard.

² TPHd = total petroleum hydrocarbons quantified using a diesel standard.

³ Xylenes = total of m,p-xylene and o-xylene when detected.

⁴ 1,2-DCA = 1,2-dichloroethane.

⁵ MTBE = methyl tertiary-butyl ether.

⁶ TBA = Tert-butyl Alcohol

⁷ DIPE = diisopropyl ether.

⁸ ETBE = ethyl tertiary butyl ether.

⁹ TAME = tertiary amyl methyl ether.

¹⁰ --- = not analyzed.

¹¹ < 0.5 = not detected at or above the reporting limit shown.

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
BW-1	05/24/97	<100 ¹¹	--- ¹⁰	<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	3.7	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	82	---	<500	<500	---	1.4	<0.50	<0.50	2.7	<0.50	<1	---	---	---	---
EXP-1	03/14/97	<50	---	<47	---	---	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---	---
EXP-1	03/14/97	<50	---	<50	---	---	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---	---
EXP-1	03/14/97	<100	---	---	---	---	<2	<2	<2	<2	---	---	---	---	---	---
EXP-1	07/10/97	<50	---	290	<200	---	<5	<5	<5	<5	<5	<5	---	---	---	---
EXP-1	01/09/98	<500	---	<100	<100	---	<0.50	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
EXP-1	05/20/98	<300	---	---	---	---	0.50	0.90	<0.50	<1	<0.50	<0.50	---	---	---	---
EXP-1	11/04/98	<300	---	---	---	175	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	05/26/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	08/10/99	<500	---	<1000	---	---	<0.50	<1	<1	<1	<0.50	<1	---	---	---	---
EXP-1	09/23/99	<300	---	---	---	---	<0.50	<1	<1	<1	<0.50	<1	---	---	---	---
EXP-1	10/12/99	<300	---	---	---	<100	<0.50	<1	<1	<1	<0.50	<1	---	---	---	---
EXP-1	11/18/99	<300	---	---	---	<100	<0.50	<1	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	11/19/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	12/21/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	01/20/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	02/28/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	03/28/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	04/20/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	05/17/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	05/18/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	06/30/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	08/28/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	11/29/00	<300	---	---	---	<100	0.50	<0.50	<0.50	0.70	<0.50	<0.50	---	---	---	---
EXP-1	02/06/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	05/08/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	05/09/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	09/19/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	11/07/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	11/07/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	01/30/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	04/10/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	04/11/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	07/30/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.98	---	---	---	---
EXP-1	09/06/02	---	---	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	10/23/02	<300	---	---	---	<100	<0.50	<1	<1	<0.30	<0.50	<5	---	---	---	---
EXP-1	10/24/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	01/29/03	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	04/08/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	04/10/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	07/30/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	10/08/03	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	10/08/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	01/29/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	04/21/04	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	04/21/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	07/19/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	07/21/04	200	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	---	<0.50	---	---	---	---
EXP-1	11/03/04	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	02/02/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	05/04/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	08/02/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	11/02/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	02/27/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	05/02/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
EXP-1	05/03/06	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	09/19/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	12/05/06	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	12/05/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	03/13/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	05/02/07	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	05/02/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	08/29/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	11/13/07	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	11/13/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	02/20/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	04/16/08	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	04/16/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	08/14/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	10/15/08	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	10/17/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-1	02/24/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	---	---	---
EXP-1	04/20/09	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	04/22/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-1	07/20/09	<50	---	---	---	120	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-1	10/19/09	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	10/19/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-1	01/11/10	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	03/15/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-1	04/12/10	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	0.44 J ¹³	<10	<2	<2	<2
EXP-1	05/25/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-1	07/12/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-1	10/04/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-1	10/04/10	---	<100	---	---	---	<0.50	---	---	---	<0.50	0.45 J	<10	---	---	---
EXP-1	01/10/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-1	01/10/11	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	04/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-1	04/11/11	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	07/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-1	07/11/11	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	10/10/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-1	10/10/11	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-1	01/09/12	< 50	---	---	---	< 100	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
EXP-1	01/09/12	< 100	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
EXP-1	04/16/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
EXP-1	04/16/12	< 100	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
EXP-1	07/09/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
EXP-1	07/09/12	< 100	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
EXP-1	10/15/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
EXP-1	10/15/12	< 100	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
EXP-2	11/27/96	<50	---	<500	<500	---	<0.50	<0.50	<0.50	<0.10	<0.50	<1	---	---	---	---
EXP-2	03/14/97	<50	---	75	---	---	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---	---
EXP-2	03/14/97	72	---	200	---	---	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---	---
EXP-2	03/14/97	<100	---	---	---	---	<2	<2	<2	<2	---	---	---	---	---	---
EXP-2	07/10/97	<50	---	<50	<50	---	<5	<5	<5	<5	<5	<5	---	---	---	---
EXP-2	01/09/98	<500	---	<100	<100	---	<0.50	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
EXP-2	05/20/98	<300	---	---	---	---	<0.50	0.60	<0.50	<1	<0.50	<0.50	---	---	---	---
EXP-2	11/04/98	<300	---	---	---	<100	<0.50	1.5	1.0	10	<0.50	<0.50	---	---	---	---
EXP-2	05/07/99	<500	---	<500	---	---	1.6	1.1	<0.50	1.9	<1	1.7	---	---	---	---
EXP-2	05/26/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.4	---	---	---	---
EXP-2	07/21/99	<50	---	---	---	---	<0.50	<0.50	<0.50	<0.50	<1	0.83	---	---	---	---
EXP-2	08/10/99	<500	---	<1000	---	---	<0.50	<1	<1	<1	<0.50	<1	---	---	---	---
EXP-2	09/23/99	<300	---	---	---	---	<0.50	<1	<1	<1	<0.50	<1	---	---	---	---
EXP-2	10/12/99	<300	---	---	---	<100	<0.50	<1	<1	<1	<0.50	<1	---	---	---	---
EXP-2	11/18/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-2	11/19/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-2	12/21/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-2	01/20/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-2	02/28/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
EXP-2	10/04/10	---	<100	---	---	---	<0.50	---	---	---	<0.50	<0.50	<10	---	---	---
EXP-2	01/10/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-2	01/10/11	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-2	04/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-2	04/11/11	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-2	07/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-2	07/11/11	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-2	10/10/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-2	10/10/11	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-2	01/09/12	< 50	---	---	---	< 100	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
EXP-2	01/09/12	< 100	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
EXP-2	04/16/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
EXP-2	04/16/12	< 100	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
EXP-2	07/09/12	< 50	---	< 100	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
EXP-2	07/09/12	< 100	210	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	11	< 2.0	< 2.0	< 2.0
EXP-2	10/15/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
EXP-2	10/15/12	< 100	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
EXP-3	11/27/96	<50	---	<500	<500	---	<0.50	<0.50	<0.50	<1	<0.50	<1	---	---	---	---
EXP-3	03/14/97	<50	---	120	---	---	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---	---
EXP-3	03/14/97	<50	---	250	---	---	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---	---
EXP-3	03/14/97	<100	---	---	---	---	<2	<2	<2	<2	---	---	---	---	---	---
EXP-3	07/10/97	<50	---	<50	<50	---	<5	<5	<5	<5	<5	<5	---	---	---	---
EXP-3	01/09/98	<500	---	<100	<100	---	<0.50	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
EXP-3	05/20/98	<300	---	---	---	---	<0.50	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
EXP-3	11/04/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	05/07/99	---	---	<500	---	---	<0.50	<0.50	<0.50	<0.50	<1	0.89	---	---	---	---
EXP-3	05/27/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	08/10/99	<500	---	<1000	---	---	4.0	6.2	<1	3.4	<0.50	<1	---	---	---	---
EXP-3	09/23/99	<300	---	---	---	---	<0.50	<1	<1	<1	<0.50	<1	---	---	---	---
EXP-3	10/12/99	<300	---	---	---	<100	<0.50	<1	<1	<1	<0.50	<1	---	---	---	---
EXP-3	11/18/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	11/19/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	12/21/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	01/20/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	02/28/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	03/28/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	04/20/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	05/17/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	05/18/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	06/30/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	08/28/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	11/30/00	<300	---	---	---	<100	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	02/06/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	05/08/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	05/09/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	09/19/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	11/07/01	<300	---	---	---	<100	0.80	0.60	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	11/07/01	<300	---	---	---	<100	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	01/30/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	04/11/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	04/12/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	07/30/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	10/22/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<1	---	---	---	---
EXP-3	10/23/02	<300	---	---	---	<100	<0.50	<1	<1	<1	<0.50	<1	---	---	---	---
EXP-3	01/29/03	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	04/08/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	04/11/03	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	07/30/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	10/07/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	10/10/03	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	01/29/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	04/20/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	04/22/04	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-3	07/19/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
EXP-3	07/21/04	120	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	---	<0.50	---	---	---	---
EXP-3	11/03/04	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-3	02/02/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	05/04/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	08/01/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	11/02/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	02/27/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	05/02/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	05/05/06	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-3	09/18/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	12/05/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	12/06/06	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-3	03/13/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	05/04/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	05/04/07	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-3	08/30/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	11/15/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	11/16/07	<100	---	---	---	1,500	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-3	02/07/08	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-3	02/20/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	04/16/08	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-3	04/16/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	08/14/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	10/14/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-3	10/15/08	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-3	02/24/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	---	---	---
EXP-3	04/22/09	<100	<100	---	---	---	<0.50	3.4	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-3	04/23/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-3	07/20/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-3	07/20/09	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-3	10/19/09	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-3	10/19/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-3	01/11/10	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-3	03/15/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-3	04/12/10	---	<100	---	---	---	0.31 J	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
EXP-3	05/25/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-3	07/12/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-3	10/04/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.74	<10	<1	<1	<1
EXP-3	10/04/10	---	<100	---	---	---	<0.50	---	---	---	<0.50	0.68	<10	---	---	---
EXP-3	01/10/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	0.73	0.95	<10	<1	<1	<1
EXP-3	01/10/11	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	0.64	1.0	<10	<2	<2	<2
EXP-3	04/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	1.3	0.99	<10	<1	<1	<1
EXP-3	04/11/11	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	1.3	1.1	<10	<2	<2	<2
EXP-3	07/12/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	0.61	<0.50	<10	<1	<1	<1
EXP-3	07/12/11	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	0.62	0.45 J	<10	<2	<2	<2
EXP-3	10/10/11	<50	---	---	---	140	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-3	10/10/11	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	8.7 J	<2	<2	<2
EXP-3	01/09/12	< 50	---	---	---	< 100	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.66	< 10	< 1	< 1	< 1
EXP-3	01/09/12	< 100	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.81	0.63	< 10	< 2.0	< 2.0	< 2.0
EXP-3	04/16/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	0.58	< 0.5	< 10	< 1	< 1	< 1
EXP-3	04/16/12	< 100	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.54	0.48 J	< 10	< 2.0	< 2.0	< 2.0
EXP-3	07/09/12	< 50	---	190	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
EXP-3	07/09/12	< 100	250	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	9.5 J	< 2.0	< 2.0	< 2.0
EXP-3	08/29/12	---	---	< 50	---	---	---	---	---	---	---	---	---	---	---	---
EXP-3 DUP ¹²	08/29/12	---	---	< 50	---	---	---	---	---	---	---	---	---	---	---	---
EXP-3	10/15/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
EXP-3	10/15/12	< 100	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	J	< 0.50	< 10	< 2.0	< 2.0	< 2.0
EXP-4	02/03/99	<500	---	<500	---	---	<0.50	<0.50	<0.50	<1	<1	<0.50	---	---	---	---
EXP-4	05/06/99	<500	---	<500	---	---	1.3	4.1	<0.50	1.7	<1	<0.50	---	---	---	---
EXP-4	07/21/99	<50	---	---	---	---	<0.50	<0.50	<0.50	<0.50	<1	<0.50	---	---	---	---
EXP-4	08/10/99	<500	---	<1000	---	---	50	80	7.7	44	2.1	4.2	---	---	---	---
EXP-4	09/23/99	<300	---	---	---	---	<0.50	<1	<1	<1	0.72	1.2	---	---	---	---
EXP-4	09/23/99	<300	---	---	---	---	<0.50	<1	<1	<1	<0.50	<1	---	---	---	---
EXP-4	09/23/99	<300	---	---	---	---	<0.50	<1	<1	<1	<0.50	<1	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toulene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
EXP-4	10/12/99	<300	---	---	---	<100	<0.50	<1	<1	<1	<0.50	<1	---	---	---	---
EXP-4	11/19/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.60	---	---	---	---
EXP-4	12/21/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-4	12/21/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-4	01/20/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	0.50	<0.50	<0.50	---	---	---	---
EXP-4	02/28/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-4	03/28/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-4	04/20/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-4	05/18/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-4	06/30/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-4	08/28/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-4	11/30/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-4	02/06/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-4	05/08/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-4	09/18/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-4	11/07/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-4	01/30/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-4	04/11/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-4	10/24/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-4	10/07/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-4	05/05/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-4	05/05/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-4	09/20/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-4	05/01/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-4	04/18/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-4	04/21/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-4	07/20/09	<50	---	---	---	120	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-4	10/19/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-4	05/24/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-4	04/12/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-4	04/17/12	< 50	---	< 100	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
EXP-5	11/11/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	02/03/99	<500	---	<500	---	---	<0.50	<0.50	<0.50	<1	<1	<0.50	---	---	---	---
EXP-5	05/05/99	<500	---	<500	---	---	7.6	3.9	1.4	7.4	<1	140	---	---	---	---
EXP-5	07/21/99	<50	---	---	---	---	<0.50	<0.50	<0.50	<0.50	<1	11	---	---	---	---
EXP-5	08/10/99	<500	---	<1000	---	---	21	37	4.3	22	<0.50	2.4	---	---	---	---
EXP-5	09/23/99	<300	---	---	---	---	<0.50	<1	<1	<1	<0.50	<1	---	---	---	---
EXP-5	09/23/99	<300	---	---	---	---	<0.50	<1	<1	<1	<0.50	<1	---	---	---	---
EXP-5	09/23/99	<300	---	---	---	---	<0.50	<1	<1	<1	<0.50	<1	---	---	---	---
EXP-5	10/12/99	<300	---	---	---	<100	<0.50	<1	<1	<1	<0.50	<1	---	---	---	---
EXP-5	11/19/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	12/21/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	01/20/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	02/28/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	03/28/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	04/20/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	05/17/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	06/30/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	08/28/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	11/29/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	02/06/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	05/08/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	09/19/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	11/07/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	01/30/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	04/11/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	07/30/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	10/24/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	01/28/03	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	04/08/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	07/30/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	10/07/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	01/29/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	04/21/04	<50	---	---	---	160	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toulene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
EXP-5	07/20/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	11/04/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	02/03/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	05/04/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	08/03/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	11/01/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	02/28/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	05/05/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	09/19/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	12/07/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	03/13/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	05/03/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	08/28/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	11/15/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	02/20/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	04/18/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	08/14/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	10/15/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
EXP-5	02/23/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	---	---	---
EXP-5	04/22/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-5	07/21/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-5	10/19/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-5	03/15/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-5	05/25/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-5	07/12/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-5	10/04/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-5	01/10/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-5	04/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-5	07/11/11	<50	---	---	---	110	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-5	10/10/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
EXP-5	01/09/12	< 50	---	---	---	< 100	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
EXP-5	04/17/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
EXP-5	07/09/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
EXP-5	10/16/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GB-21	01/24/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	---	<0.50	<10	<1	<1	<1
GB-21	01/24/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	---	<0.50	140	<1	<1	<1
GB-22	01/21/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	---	<0.50	<10	<1	<1	<1
GB-22	01/21/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	---	<0.50	110	<1	<1	<1
GB-23	01/21/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	---	<0.50	<10	<1	<1	<1
GB-23	01/21/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	---	<0.50	<10	<1	<1	<1
GB-23	01/21/11	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	---	<0.50	2,400	<1	<1	<1
GMW-1	11/27/96	---	---	---	---	---	13,000	11,000	2,700	14,300	<50	<500	---	---	---	---
GMW-1	07/17/97	68,000	---	6,900	---	---	10,000	5,500	2,500	11,500	<30	<300	---	---	---	---
GMW-1	01/09/98	5,800	---	4,500	---	---	5,600	590	1,200	4,570	<30	<300	---	---	---	---
GMW-1	05/27/98	19,600	---	---	---	---	4,360	466	930	2,279	<0.50	101	---	---	---	---
GMW-1	11/17/98	4,260	---	---	---	32,200	950	150	360	320	<50	<50	---	---	---	---
GMW-1	05/05/99	<500	---	<500	---	---	1.9	8.4	0.58	2.9	<1	<0.50	---	---	---	---
GMW-1	11/17/99	23,000	---	---	---	25,000	4,700	440	1,100	4,040	<5	71	---	---	---	---
GMW-1	05/16/00	14,000	---	---	---	16,000	3,100	40	720	2,300	<25	50	---	---	---	---
GMW-1	11/30/00	14,000	---	---	---	28,000	2,700	80	1,000	1,780	<0.50	33	---	---	---	---
GMW-1	05/09/01	1,000	---	---	---	18,000	1,900	<13	530	468	<13	<13	---	---	---	---
GMW-1	11/06/01	11,000	---	---	---	18,000	2,900	35	1,300	280	<0.50	27	---	---	---	---
GMW-1	04/10/02	7,600	---	---	---	13,000	2,000	26	740	295	<10	18	---	---	---	---
GMW-1	10/23/02	830	---	---	---	8,400	1,300	<5	330	111	<5	17	---	---	---	---
GMW-1	03/11/03	340	---	---	---	390	130	<0.50	30	6.1	<0.50	0.68	---	---	---	---
GMW-1	04/08/03	4,500	---	---	---	2,100	2,200	<10	240	142	<20	25	---	---	---	---
GMW-1	08/01/03	4,000	---	---	---	2,100	1,600	11	360	172	<20	14	---	---	---	---
GMW-1	10/06/03	7,400	---	---	---	2,500	2,200	12	520	196	<20	13	---	---	---	---
GMW-1	01/27/04	4,400	---	---	---	2,200	1,500	5.7	180	200	<10	12	---	---	---	---
GMW-1	04/22/04	9,100	---	---	---	5,200	3,200	<20	270	160	<40	<20	---	---	---	---
GMW-1	07/19/04	6,000	---	---	---	1,800	2,100	<10	90	70	<20	20	---	---	---	---
GMW-1	11/03/04	7,900	---	---	---	3,700	3,500	<10	88	35	<20	18	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toulene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
GMW-1	02/02/05	2,100	---	---	---	1,500	1,100	<5	18	29	<10	12	---	---	---	---
GMW-1	05/06/05	<200	---	---	---	320	1.2	<1	<1	<1	<2	<1	---	---	---	---
GMW-1	08/01/05	<500	---	---	---	1,100	<2.5	<2.5	<2.5	<2.5	<5	<2.5	---	---	---	---
GMW-1	11/02/05	<500	---	---	---	1,400	<2.5	<2.5	<2.5	<2.5	<5	<2.5	---	---	---	---
GMW-1	02/27/06	<1000	---	---	---	1,600	<5	<5	<5	<5	<10	<5	---	---	---	---
GMW-1	05/04/06	<500	---	---	---	1,600	4.0	<2.5	<2.5	<2.5	<5	<2.5	---	---	---	---
GMW-1	09/18/06	<500	---	---	---	1,300	<2.5	<2.5	<2.5	<2.5	<5	<2.5	---	---	---	---
GMW-1	12/06/06	<500	---	---	---	4,500	<2.5	<2.5	<2.5	<2.5	<5	<2.5	---	---	---	---
GMW-1	03/13/07	<1000	---	---	---	2,000	<5	<5	<5	<5	<10	<5	---	---	---	---
GMW-1	05/04/07	<50	---	---	---	1,500	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-1	08/30/07	520	---	---	---	910	<1.5	<1.5	<1.5	<1.5	<3	<1.5	---	---	---	---
GMW-1	11/14/07	140	---	---	---	430	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-1	02/20/08	<200	---	---	---	690	41	<1	4.9	4.8	<2	<1	---	---	---	---
GMW-1	04/16/08	<200	---	---	---	1,200	14	<1	<1	<1	<2	<1	---	---	---	---
GMW-1	10/17/08	1,600	---	---	---	2,900	52	1.6	58	250	<2	<1	---	---	---	---
GMW-1	04/20/09	600	---	---	---	2,400	63	1.2	25	16	<2	<1	<20	<2	<2	<2
GMW-1	10/22/09	330	---	---	---	1,900	1.5	<1	<1	<1	<2	<1	<20	<2	<2	<2
GMW-1	05/27/10	900	---	---	---	1,900	55	4.9	46	<1	<2	<1	<20	<2	<2	<2
GMW-1	10/07/10	400	---	---	---	<1700	<1	<1	<1	<1	<2	<1	<20	<2	<2	<2
GMW-1	04/14/11	230	---	---	---	1,500	<1	<1	<1	<1	<2	<1	<20	<2	<2	<2
GMW-1	10/12/11	230	---	---	---	1,700	<1	<1	<1	<1	<2	<1	<20	<2	<2	<2
GMW-1	04/19/12	< 200	---	850	---	---	< 1	< 1	< 1	< 1	< 2	< 1	< 20	< 2	< 2	< 2
GMW-1 DUP	04/19/12	220	---	810	---	---	< 1	< 1	< 1	< 1	< 2	< 1	< 20	< 2	< 2	< 2
GMW-1	10/17/12	< 500	---	880	---	---	< 2.5	< 2.5	< 2.5	< 2.5	< 5	< 2.5	< 50	< 5	< 5	< 5
GMW-10	10/08/10	4,800	---	---	---	36,000	360	<2.5	87	14	<5	<2.5	120	<5	<5	<5
GMW-10	04/14/11	5,700	---	---	---	31,000	370	2.0	93	7.9	<3	<1.5	100	<3	<3	<3
GMW-10	10/14/11	3,700	---	---	---	11,000	580	3.3	75	7.8	<5	<2.5	590	<5	<5	<5
GMW-10	04/27/12	3,000	---	3,100	---	---	360	< 2	15	3.2	< 4	< 2	79	< 4	< 4	< 4
GMW-10	10/19/12	10,000	---	7,500	---	---	1,300	380	270	1,400	< 10	< 5	< 100	< 10	< 10	< 10
GMW-11	11/21/96	---	---	---	---	---	<0.50	<0.50	<0.50	<1.5	<0.50	<5	---	---	---	---
GMW-11	07/10/97	220	---	2,500	---	---	<0.50	4.0	0.90	<0.50	<0.50	<5	---	---	---	---
GMW-11	01/07/98	4,000	---	220,000	---	---	<0.50	<0.50	<0.50	1.6	<0.50	<5	---	---	---	---
GMW-11	05/20/98	42,400	---	---	---	---	<0.30	<0.30	<25	<50	<2.5	<0.50	---	---	---	---
GMW-11	11/17/98	6,230	---	---	---	146,000	<5	6.0	<5	11	<5	24	---	---	---	---
GMW-11	05/07/99	1,900	---	1,900	---	---	0.61	2.1	<0.50	0.62	<1	<0.50	---	---	---	---
GMW-11	11/16/99	1,200	---	---	---	25,000	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-11	05/19/00	790	---	---	---	1,900	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-11	11/30/00	1,600	---	---	---	4,100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-11	05/10/01	<300	---	---	---	670	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-11	11/07/01	<300	---	---	---	560	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-11	04/11/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-12	11/27/96	99	---	<500	<500	---	<0.50	<0.50	<0.50	<1	<0.50	<1	---	---	---	---
GMW-12	07/10/97	110	---	8,600	<7500	---	<5	<5	<5	<5	<5	<5	---	---	---	---
GMW-12	01/06/98	<500	---	1,000	<100	---	<0.50	1.6	<0.50	<1	<0.50	<0.50	---	---	---	---
GMW-12	05/21/98	<300	---	---	---	---	<0.30	<0.30	<0.50	<1	<0.50	<0.50	---	---	---	---
GMW-12	11/05/98	<300	---	---	---	433	4.5	<0.50	3.0	1.7	<0.50	<0.50	---	---	---	---
GMW-12	05/27/99	<300	---	---	---	937	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-12	11/18/99	<300	---	---	---	4,900	<0.50	<1	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-12	05/17/00	<300	---	---	---	2,200	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-12	11/30/00	<300	---	---	---	1,400	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-12	05/09/01	<300	---	---	---	2,100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-12	11/07/01	<300	---	---	---	2,700	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-12	04/11/02	<300	---	---	---	1,900	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-12	10/23/02	<300	---	---	---	1,700	<0.50	<1	<1	<1	<0.50	<1	---	---	---	---
GMW-12	04/10/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-12	04/14/03	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-12	10/10/03	<100	---	---	---	2,900	<0.50	<0.50	0.56	<0.50	<0.50	<0.50	---	---	---	---
GMW-12	04/21/04	<100	---	---	---	2,000	<0.50	<0.50	<0.50	0.62	<0.50	<0.50	<10	<2	<2	<2
GMW-12	11/04/04	<100	---	---	---	2,600	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-12	05/06/05	<100	---	---	---	1,400	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-12	11/08/05	<100	---	---	---	270	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-12	05/04/06	<100	---	---	---	450	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-12	12/08/06	<100	---	---	---	150	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-12	05/04/07	<100	---	---	---	440	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2

**TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012**

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
GMW-12	11/16/07	---	---	---	---	150	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-12	04/18/08	<100	---	---	---	480	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-12	10/16/08	<100	310	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-12	04/23/09	<100	630	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-12	10/20/09	<100	480	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	0.49 J	<10	<2	<2	<2
GMW-12	04/15/10	---	400	---	---	---	<0.50	<0.50	<0.50	<0.50	---	<0.50	<10	<2	<2	<2
GMW-12	10/08/10	---	<100	---	---	---	<0.50	---	---	---	<0.50	<0.50	3.6 J	---	---	---
GMW-12	04/11/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-12	10/10/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-12	04/16/12	---	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
GMW-12	10/15/12	---	280	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
GMW-13	11/21/96	---	---	---	---	---	3.2	<0.50	0.73	1.2	<0.50	<5	---	---	---	---
GMW-13	07/10/97	1,300	---	5,600	---	---	1.6	3.5	0.93	2.4	<0.50	<5	---	---	---	---
GMW-13	01/08/98	<100	---	<500	---	---	1.9	1.6	<0.50	<1.5	<0.50	<5	---	---	---	---
GMW-13	05/20/98	<300	---	---	---	---	<0.30	<0.30	<25	0.80	<2.5	<0.50	---	---	---	---
GMW-13	11/12/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-13	05/07/99	<500	---	<500	---	---	<0.50	<0.50	<0.50	<0.50	<1	<0.50	---	---	---	---
GMW-13	11/17/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-13	05/17/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-13	11/30/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-13	05/10/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	2.6	---	---	---	---
GMW-13	11/06/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-13	02/01/02	---	---	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-13	04/10/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-13	10/22/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<1	---	---	---	---
GMW-13	04/09/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	3.1	---	---	---	---
GMW-13	10/06/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-13	04/20/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-13	11/02/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-13	05/04/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-13	11/01/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-13	05/02/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-13	12/05/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-13	05/04/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-13	11/14/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-13	04/16/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-13	10/17/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-13	04/23/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-13	10/19/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-13	10/23/09	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	23	9.5	<10	3.8	<2	<2
GMW-13	05/26/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-13	10/06/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-13	04/12/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-13	04/13/11	---	130	---	---	---	---	---	---	---	---	---	---	---	---	---
GMW-13	10/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-13	04/18/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-13	10/16/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-14	05/07/99	<500	---	<500	---	---	<0.50	<0.50	<0.50	<0.50	<1	<0.50	---	---	---	---
GMW-14	11/17/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-14	05/16/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-14	11/30/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-14	05/09/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-14	11/06/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-14	04/10/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-14	10/07/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-14	04/22/04	59	---	---	---	110	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-14	11/02/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-14	05/06/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-14	11/01/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-14	03/08/06	520	---	---	---	2,000	2.6	<0.50	<0.50	<0.50	0.64	4.0	21	<2	<2	<2
GMW-14	05/02/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-14	12/07/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-14	05/04/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-14	11/14/07	1,500	---	---	---	2,100	<2.5	<2.5	34	3.0	<5	<2.5	---	---	---	---

**TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012**

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
GMW-14	04/16/08	440	---	---	---	850	<0.50	<0.50	<0.50	<0.50	<1	<0.50	---	---	---	---
GMW-14	07/29/08	210	---	---	---	810	<0.50	<0.50	<0.50	<0.50	<0.50	2.2	18	<2	<2	<2
GMW-14	10/17/08	210	---	---	---	420	<0.50	<0.50	<0.50	<0.50	<1	<0.50	---	---	---	---
GMW-14	04/23/09	120	---	---	---	580	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-14	10/22/09	130	---	---	---	740	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	10	<1	<1	<1
GMW-14	04/16/10	---	1,500	---	---	---	160	<0.50	2.6	3.0	<0.50	13	15	<2	<2	0.79 J
GMW-14	10/07/10	160	---	---	---	<620	<0.50	<0.50	<0.50	<0.50	<1	<0.50	<10	<1	<1	<1
GMW-14	04/13/11	<100	---	---	---	310	<0.50	<0.50	<0.50	<0.50	<1	<0.50	<10	<1	<1	<1
GMW-14	10/12/11	58	---	---	---	600	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-14	04/19/12	< 50	---	130	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-14	10/17/12	< 50	---	150	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-15	05/20/98	1,300	---	---	---	---	3.9	<0.30	7.4	6.4	---	---	---	---	---	---
GMW-15	11/05/98	512	---	---	---	1,170	1.8	<0.30	3.7	1.0	---	---	---	---	---	---
GMW-15	05/27/99	634	---	---	---	18,600	2.5	<0.30	5.3	2.0	---	---	---	---	---	---
GMW-15	11/18/99	<300	---	---	---	3,400	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
GMW-15	05/16/00	610	---	---	---	11,000	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
GMW-15	12/01/00	450	---	---	---	4,000	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
GMW-15	05/10/01	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
GMW-15	11/07/01	<300	---	---	---	13,000	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
GMW-15	04/10/02	1,900	---	---	---	18,000	1.2	<0.30	1.6	3.8	---	<5	---	---	---	---
GMW-15	10/23/02	840	---	---	---	16,000	0.58	<0.30	0.72	1.5	---	<5	---	---	---	---
GMW-15	04/10/03	---	---	---	---	5,060	<1	<1	<1	<2	---	<3	---	---	---	---
GMW-15	10/08/03	---	---	---	---	11,000	<0.30	<0.30	<0.30	<0.30	---	<5	---	---	---	---
GMW-15	04/22/04	---	---	---	---	4,200	0.70	<0.30	<0.30	0.47	---	<5	---	---	---	---
GMW-15	11/06/04	---	---	---	---	<100	<0.30	<0.30	<0.30	<0.30	---	<5	---	---	---	---
GMW-15	05/06/05	---	---	---	---	670	<0.30	0.47	<0.30	<0.30	---	<5	---	---	---	---
GMW-15	11/08/05	---	---	---	---	200	<0.30	0.31	<0.30	<0.30	---	<5	---	---	---	---
GMW-15	05/03/06	---	---	---	---	330	<0.30	<0.30	<0.30	<0.30	---	<5	---	---	---	---
GMW-15	12/08/06	---	---	---	---	160	<0.50	<0.50	<0.50	<1	---	<5	---	---	---	---
GMW-15	05/02/07	---	---	---	---	710	<0.50	<0.50	<0.50	1.2	---	<5	---	---	---	---
GMW-15	05/02/07	---	---	---	---	740	<0.50	<0.50	<0.50	<1	---	<5	---	---	---	---
GMW-15	11/14/07	---	---	---	---	890	<0.50	<0.50	<0.50	<1	---	<5	---	---	---	---
GMW-15	04/16/08	---	---	---	---	1,400	<0.50	<0.50	<0.50	<1	---	<5	---	---	---	---
GMW-15	10/15/08	---	1,400	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-15	04/21/09	180	3,600	---	---	---	<0.50	<0.50	<0.50	<0.50	---	5.4	---	---	---	---
GMW-15	10/20/09	---	4,900	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	3.1	4.5 J	<2	<2	<2
GMW-15	04/15/10	---	760	---	---	---	<0.50	<0.50	<0.50	<0.50	---	5.7	<10	<2	<2	<2
GMW-15	10/05/10	---	230	---	---	---	<0.50	---	---	---	<0.50	<0.50	<10	---	---	---
GMW-15	04/14/11	---	210	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-15	10/10/11	---	170	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-15	04/19/12	---	1,600	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
GMW-15	10/15/12	---	460	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	12	< 10	< 2.0	< 2.0	< 2.0
GMW-16	11/21/96	<38	---	<500	<500	---	<0.50	<0.50	0.80	<1.5	<0.50	---	---	---	---	---
GMW-16	07/09/97	<50	---	110	<50	---	5.7	<5	9.2	7.5	<5	<5	---	---	---	---
GMW-16	01/06/98	<500	---	<100	<100	---	<0.50	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
GMW-16	05/20/98	<300	---	---	---	---	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
GMW-16	11/04/98	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
GMW-16	05/27/99	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
GMW-16	11/18/99	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
GMW-16	05/16/00	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
GMW-16	11/29/00	<300	---	---	---	140	0.64	1.2	0.85	3.2	---	<5	---	---	---	---
GMW-16	05/10/01	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
GMW-16	11/07/01	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	9.1	---	---	---	---
GMW-16	04/10/02	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
GMW-16	10/23/02	<300	---	---	---	110	<0.30	<0.30	<0.30	<0.30	---	<5	---	---	---	---
GMW-16	04/11/03	---	---	---	---	<100	<1	<1	<1	<2	---	<3	---	---	---	---
GMW-16	10/08/03	---	---	---	---	310	<0.30	<0.30	<0.30	<0.30	---	<5	---	---	---	---
GMW-16	04/22/04	---	---	---	---	<100	<0.30	<0.30	<0.30	<0.30	---	<5	---	---	---	---
GMW-16	11/06/04	---	---	---	---	<100	<0.30	<0.30	<0.30	0.59	---	<5	---	---	---	---
GMW-16	05/06/05	---	---	---	---	<100	<0.30	0.58	<0.30	<0.30	---	<5	---	---	---	---
GMW-16	11/08/05	---	---	---	---	<100	<0.30	0.48	<0.30	<0.30	---	<5	---	---	---	---
GMW-16	05/03/06	---	---	---	---	100	<0.30	<0.30	<0.30	<0.30	---	<5	---	---	---	---
GMW-16	12/06/06	---	---	---	---	<100	<0.50	<0.50	<0.50	<1	---	<5	---	---	---	---
GMW-16	05/02/07	---	---	---	---	<100	<0.50	<0.50	<0.50	<1	---	<5	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
GMW-16	11/14/07	---	---	---	---	<100	<0.50	<0.50	<0.50	<1	---	<5	---	---	---	---
GMW-16	04/16/08	---	---	---	---	<100	<0.50	<0.50	<0.50	<1	---	<5	---	---	---	---
GMW-16	10/15/08	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-16	04/21/09	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	---	<0.50	---	---	---	---
GMW-16	10/20/09	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-16	04/12/10	---	110	---	---	---	<0.50	<0.50	<0.50	<0.50	---	<0.50	<10	<2	<2	<2
GMW-16	10/05/10	---	100	---	---	---	<0.50	---	---	---	<0.50	<0.50	<10	---	---	---
GMW-16	10/10/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-16	04/18/12	---	130	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
GMW-16	10/15/12	---	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
GMW-17	05/10/01	6,800	---	---	---	1,500,000	52	25	<15	330	---	<250	---	---	---	---
GMW-17	10/24/02	49,000	---	---	---	170,000	91	<30	<30	160	---	<500	---	---	---	---
GMW-17	04/14/03	---	---	---	---	10,100	572	5.6	75	367	---	<15	---	---	---	---
GMW-17	10/10/03	---	---	---	---	8,700	240	1.5	9.5	41	---	<10	---	---	---	---
GMW-17	04/22/04	---	---	---	---	2,400	540	4.6	24	190	---	63	---	---	---	---
GMW-17	11/06/04	---	---	---	---	3,000	110	<0.30	2.1	6.1	---	19	---	---	---	---
GMW-17	05/10/05	---	---	---	---	760	7.9	3.6	<1.5	2.6	---	<25	---	---	---	---
GMW-17	11/08/05	---	---	---	---	290	3.7	<0.30	0.37	1.9	---	7.0	---	---	---	---
GMW-17	05/05/06	---	---	---	---	1,200	3.7	2.2	1.6	4.5	---	<5	---	---	---	---
GMW-17	12/08/06	---	---	---	---	1,400	34	<0.50	1.9	30	---	<5	---	---	---	---
GMW-17	05/03/07	---	---	---	---	12,000	9.1	<0.50	0.92	9.0	---	7.7	---	---	---	---
GMW-17	11/14/07	---	---	---	---	1,200	4.8	<0.50	<0.50	<1	---	<5	---	---	---	---
GMW-17	04/18/08	---	---	---	---	<100	5.3	<0.50	0.62	1.4	---	<5	---	---	---	---
GMW-17	10/17/08	---	1,600	---	---	---	2.6	<0.50	0.57	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-17	04/22/09	450	760	---	---	---	27	<0.50	2.4	<0.50	---	<0.50	---	<0.50	<0.50	<0.50
GMW-17	10/20/09	---	2,400	---	---	---	0.42 J	<0.50	<0.50	<0.50	<0.50	<0.50	9.5 J	<2	<2	<2
GMW-17	04/14/10	1,200	1,900	---	---	---	59	0.34 J	5.5	2.0	---	<0.50	<10	<2	<2	<2
GMW-17	10/05/10	1,200	2,000	---	---	---	79	---	---	---	<0.50	<0.50	5.2 J	---	---	---
GMW-17	04/15/11	750	1,200	---	---	---	13	0.55	4.6	0.82	<0.50	<0.50	<10	<2	<2	<2
GMW-17	10/10/11	<1100	1,100	---	---	---	50	<0.77	28	6.5	<0.50	<0.50	<10	<2	<2	<2
GMW-17	04/20/12	610	2,100	---	---	---	1.2	< 0.50	0.18 J	0.71 J	0.50	< 0.50	29	< 2.0	< 2.0	< 2.0
GMW-17 DUP	04/20/12	---	2,200	---	---	---	0.96	< 0.50	0.2 J	0.73 J	0.50	< 0.50	33	< 2.0	< 2.0	< 2.0
GMW-18	04/14/03	---	---	---	---	16,500,000	3,410	3,510	3,070	17,800	---	<150	---	---	---	---
GMW-18	10/08/03	---	---	---	---	170,000	2,600	120	360	3,100	---	<1000	---	---	---	---
GMW-18	04/21/04	---	---	---	---	45,000	2,700	<50	380	4,288	---	<50	---	---	---	---
GMW-18	11/04/04	---	---	---	---	51,000	1,300	<3	220	2,400	---	<50	---	---	---	---
GMW-18	05/06/05	---	---	---	---	5,900	1,100	22	140	1,200	---	<50	---	---	---	---
GMW-18	11/08/05	---	---	---	---	17,000	650	11	17	470	---	<100	---	---	---	---
GMW-18	05/04/06	---	---	---	---	19,000	200	1.9	15	100	---	6.9	---	---	---	---
GMW-18	12/08/06	---	---	---	---	6,800	320	<0.50	25	190	---	11	---	---	---	---
GMW-18	05/03/07	---	---	---	---	10,000	200	<2.5	13	56	---	<25	---	---	---	---
GMW-18	11/15/07	---	---	---	---	1,900	160	<0.50	4.1	26	---	5.5	---	---	---	---
GMW-18	04/17/08	---	---	---	---	3,400	180	0.87	13	100	---	6.7	---	---	---	---
GMW-18	10/16/08	---	2,800	---	---	---	33	<0.50	2.2	11	<0.50	4.7	12	<2	<2	<2
GMW-18	04/23/09	880	1,100	---	---	---	60	<0.50	1.4	5.0	<0.50	3.0	13	<2	<2	<2
GMW-18	10/20/09	---	2,700	---	---	---	15	<0.50	0.55	5.6	<0.50	7.0	13	<2	<2	<2
GMW-18	04/16/10	1,500	7,200	---	---	---	80	0.84	0.49 J	1.6	---	7.3	43	<2	<2	<2
GMW-18	04/20/12	2,100	4,700	---	---	---	67	0.4 J	1.1	5.9	1.7	3.5	57	< 2.0	< 2.0	< 2.0
GMW-18	07/10/12	---	7,800	---	---	---	94	0.42 J	0.94	3.9	0.50	3.9	27	< 2.0	< 2.0	< 2.0
GMW-19	11/27/96	3,000	---	<500	<500	---	85	<2.5	23	<5	---	---	---	---	---	---
GMW-19	07/10/97	<50	---	<50	<50	---	2.5	<1	<1	<2	---	---	---	---	---	---
GMW-19	01/07/98	<500	---	<100	<100	---	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
GMW-19	05/21/98	<300	---	---	---	---	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
GMW-19	11/06/98	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
GMW-19	05/27/99	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
GMW-19	11/18/99	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
GMW-19	05/17/00	<300	---	---	---	<100	0.47	0.45	<0.30	0.95	---	---	---	---	---	---
GMW-19	12/01/00	<300	---	---	---	440	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
GMW-19	05/09/01	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
GMW-19	11/08/01	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
GMW-19	04/11/02	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
GMW-19	10/23/02	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
GMW-19	04/14/03	---	---	---	---	<100	<1	<1	<1	<2	---	<3	---	---	---	---
GMW-19	10/10/03	---	---	---	---	<100	<0.30	<0.30	<0.30	<0.30	---	15	---	---	---	---

**TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012**

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
GMW-19	04/21/04	---	---	---	---	260	<0.50	<1	<1	<1	---	28	---	---	---	---
GMW-19	11/04/04	---	---	---	---	<100	<0.30	<0.30	<0.30	<0.30	---	<5	---	---	---	---
GMW-19	05/06/05	---	---	---	---	<100	<0.30	<0.30	<0.30	0.69	---	<5	---	---	---	---
GMW-19	11/08/05	---	---	---	---	<100	0.52	0.71	0.40	2.0	---	<5	---	---	---	---
GMW-19	05/04/06	---	---	---	---	<100	<0.30	<0.30	<0.30	<0.30	---	<5	---	---	---	---
GMW-19	12/08/06	---	---	---	---	<100	<0.50	<0.50	<0.50	<1	---	<5	---	---	---	---
GMW-19	05/03/07	---	---	---	---	210	<0.50	<0.50	<0.50	<1	---	<5	---	---	---	---
GMW-19	11/15/07	---	---	---	---	<100	0.50	<0.50	<0.50	<1	---	<5	---	---	---	---
GMW-19	04/17/08	---	---	---	---	<100	<0.50	<0.50	<0.50	<1	---	<5	---	---	---	---
GMW-19	10/16/08	---	140	---	---	---	0.60	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-19	04/23/09	---	<100	---	---	---	0.70	<0.50	<0.50	<0.50	---	0.67	---	<0.50	<0.50	<0.50
GMW-19	10/20/09	---	<100	---	---	---	3.8	<0.50	<0.50	<0.50	<0.50	1.5	<10	<2	<2	<2
GMW-19	04/16/10	---	300	---	---	---	130	<0.50	0.66	<0.50	---	21	12	<2	<2	0.52 J
GMW-19	10/08/10	---	150	---	---	---	2.4	---	---	---	<0.50	2.7	<10	---	---	---
GMW-19	10/10/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-19	04/18/12	---	< 100	---	---	---	3.8	< 0.50	< 0.50	< 1.0	0.50	0.88	< 10	< 2.0	< 2.0	< 2.0
GMW-19	10/15/12	---	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	1.1	< 10	< 2.0	< 2.0	< 2.0
GMW-2	11/21/96	---	---	---	---	---	6,500	44	700	960	<30	4,800	---	---	---	---
GMW-2	07/15/97	350	---	<500	---	---	59	1.2	41	20	<0.50	<5	---	---	---	---
GMW-2	01/08/98	<100	---	<500	---	---	4.1	0.79	1.1	1.1	2.7	220	---	---	---	---
GMW-2	05/27/98	<300	---	---	---	---	<0.50	58	0.80	0.50	<0.50	21	---	---	---	---
GMW-2	11/17/98	<300	---	---	---	<100	0.88	2.1	0.90	4.8	<0.50	4.4	---	---	---	---
GMW-2	05/07/99	<500	---	<500	---	---	8.2	<0.50	<0.50	0.94	<1	42	---	---	---	---
GMW-2	11/17/99	<300	---	---	---	<100	0.70	<0.50	<0.50	<0.50	<0.50	66	---	---	---	---
GMW-2	05/16/00	<300	---	---	---	200	<0.50	<0.50	<0.50	<0.50	0.60	<0.50	---	---	---	---
GMW-2	11/30/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	1.0	140	---	---	---	---
GMW-2	05/08/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	0.60	51	---	---	---	---
GMW-2	11/06/01	<300	---	---	---	<100	7.8	<0.50	<0.50	0.70	1.2	140	---	---	---	---
GMW-2	04/09/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	240	---	---	---	---
GMW-2	10/23/02	<300	---	---	---	240	<0.50	<0.50	<0.50	<0.50	<0.50	260	---	---	---	---
GMW-2	10/07/03	91	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	81	---	---	---	---
GMW-2	05/06/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-2	05/09/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	4.2	---	---	---	---
GMW-2	05/02/07	160	---	---	---	110	73	<0.50	<0.50	2.3	<1	5.8	---	---	---	---
GMW-2	04/17/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-2	04/20/09	<50	---	---	---	100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-2	05/26/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-20	11/27/96	1,100	---	<500	<500	---	<2.5	<2.5	<2.5	<5	<2.5	---	---	---	---	---
GMW-20	07/10/97	160	---	1,400	<1200	---	<5	<5	<5	<5	<5	<5	---	---	---	---
GMW-20	01/06/98	<500	---	1,100	<100	---	<0.50	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
GMW-20	05/21/98	400	---	---	---	---	<0.30	<0.50	<0.50	<0.10	<0.50	<0.50	---	---	---	---
GMW-20	11/05/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-20	05/27/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-20	11/18/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-20	05/17/00	<300	---	---	---	120	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-20	11/30/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	---	---	---	---
GMW-20	05/09/01	<300	---	---	---	110	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-20	11/07/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-20	04/11/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-22	10/04/10	4,100	---	---	---	2,200	1,900	<10	55	38	<20	47	1,300	50	<20	<20
GMW-22	10/14/11	28,000	---	---	---	9,000	13,000	<100	470	200	<200	130	<2000	<200	<200	<200
GMW-22	04/20/12	46,000	---	1,300	---	---	20,000	< 100	650	130	< 200	140	< 2000	< 200	< 200	< 200
GMW-22	10/18/12	32,000	---	1,300	---	---	16,000	120	420	140	< 200	180	< 2000	< 200	< 200	< 200
GMW-23	11/08/05	---	---	---	---	1,900	<0.30	0.40	<0.30	<0.30	---	<5	---	---	---	---
GMW-24	04/29/11	70,000	---	---	---	690,000	19,000	830	1,700	4,200	<200	530	<2000	<200	<200	<200
GMW-24	10/13/11	58,000	---	---	---	17,000	23,000	2,400	890	2,600	<200	490	<2000	<200	<200	<200
GMW-25	10/08/10	15,000	---	---	---	<49000	6,900	<50	70	<50	<100	92	<1000	<100	<100	<100
GMW-25	04/14/11	12,000	---	---	---	23,000	6,800	<25	<25	<25	<50	36	<500	<50	<50	<50
GMW-25	10/13/11	<20000	---	---	---	31,000	9,700	<100	220	<100	<200	<100	<2000	<200	<200	<200
GMW-26	11/27/96	---	---	---	---	---	46	2.7	18	8.8	110	950	---	---	---	---
GMW-26	07/10/97	430	---	<500	---	---	100	2.1	6.9	5.9	67	760	---	---	---	---
GMW-26	01/08/98	200	---	<500	---	---	23	11	5.0	<15	64	1,200	---	---	---	---
GMW-26	05/22/98	500	---	---	---	---	<0.30	<0.50	<0.50	<0.10	260	460	---	---	---	---
GMW-26	11/17/98	1,810	---	---	---	<100	310	<5	8.0	<5	<5	3,460	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
GMW-26	05/07/99	2,300	---	<500	---	---	490	26	70	140	<5	6,100	---	---	---	---
GMW-26	11/19/99	6,700	---	---	---	5,700	3,700	160	42	530	<25	8,500	---	---	---	---
GMW-26	05/16/00	2,000	---	---	---	490	1.9	<0.50	<0.50	<0.50	0.80	82	---	---	---	---
GMW-26	11/30/00	780	---	---	---	180	<0.50	<0.50	<0.50	<0.50	3.1	17	---	---	---	---
GMW-26	05/08/01	300	---	---	---	120	<0.50	<0.50	<0.50	<0.50	13	390	---	---	---	---
GMW-26	11/06/01	<300	---	---	---	<100	0.70	<0.50	<0.50	<0.50	75	130	---	---	---	---
GMW-26	04/09/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	57	130	---	---	---	---
GMW-26	07/07/03	---	---	---	---	---	<0.50	<1	<1	<1	1.2	61	---	---	---	---
GMW-26	04/27/04	63	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	16	59	---	---	---	---
GMW-26	07/08/04	62	---	---	---	290	<0.50	<0.50	<0.50	<0.50	17	27	---	---	---	---
GMW-27	05/27/98	2,800	---	---	---	---	940	6.0	4.0	11	76	1,570	---	---	---	---
GMW-27	11/17/98	4,220	---	---	---	4,940	3,200	<50	<50	<50	<50	530	---	---	---	---
GMW-27	05/07/99	6,300	---	<500	---	---	3,600	16	11	<10	<25	720	---	---	---	---
GMW-27	11/18/99	3,300	---	---	---	1,500	1,100	<25	<25	<25	<25	1,000	---	---	---	---
GMW-27	05/16/00	5,500	---	---	---	3,600	2,600	<25	25	34	<25	1,800	---	---	---	---
GMW-27	11/30/00	4,900	---	---	---	4,100	2,100	<25	<25	<25	<25	1,600	---	---	---	---
GMW-27	05/08/01	5,300	---	---	---	4,000	2,600	<25	<25	<25	<25	2,200	---	---	---	---
GMW-27	11/06/01	4,100	---	---	---	1,500	1,600	6.4	6.7	28	<0.50	1,900	---	---	---	---
GMW-27	04/09/02	4,900	---	---	---	590	2,300	<10	15	<10	<10	1,800	---	---	---	---
GMW-27	10/23/02	590	---	---	---	680	1,800	13	<10	13	<10	1,400	---	---	---	---
GMW-27	04/08/03	4,600	---	---	---	640	2,700	<15	<15	17	<30	2,000	---	---	---	---
GMW-27	10/07/03	10,000	---	---	---	890	4,400	<20	47	120	<40	1,800	---	---	---	---
GMW-27	01/27/04	8,100	---	---	---	480	3,600	19	29	115	<30	1,500	---	---	---	---
GMW-27	04/21/04	13,000	---	---	---	1,900	6,200	<25	51	<25	<50	2,500	---	---	---	---
GMW-27	07/08/04	1,900	---	---	---	540	260	<2.5	<2.5	<2.5	<5	790	---	---	---	---
GMW-27	11/03/04	21,000	---	---	---	1,500	8,800	<50	53	170	<100	700	---	---	---	---
GMW-27	05/06/05	1,100	---	---	---	<100	440	<2.5	<2.5	4.3	<5	42	---	---	---	---
GMW-27	11/03/05	4,100	---	---	---	330	2,000	<10	<10	17	<20	250	---	---	---	---
GMW-27	05/09/06	5,500	---	---	---	400	2,800	<15	22	<15	<30	180	---	---	---	---
GMW-27	12/06/06	12,000	---	---	---	740	6,400	<50	120	<50	<100	210	---	---	---	---
GMW-27	05/02/07	13,000	---	---	---	860	7,400	<50	<50	<50	<100	230	---	---	---	---
GMW-27	11/13/07	11,000	---	---	---	550	6,000	<25	<25	<25	<50	57	---	---	---	---
GMW-27	04/18/08	380	---	---	---	270	130	<1.5	<1.5	<1.5	<3	21	---	---	---	---
GMW-27	08/14/08	1,000	---	---	---	490	280	<1.5	1.5	1.6	<3	17	---	---	---	---
GMW-27	11/21/08	3,100	---	---	---	340	1,100	<10	<10	<10	<20	26	---	---	---	---
GMW-27	04/20/09	100	---	---	---	130	1.8	<0.50	<0.50	<0.50	<0.50	4.2	450	10	<1	<1
GMW-27	10/22/09	130	---	---	---	140	<0.50	<0.50	<0.50	<0.50	<0.50	5.7	830	17	<1	<1
GMW-27	05/27/10	95	---	---	---	130	<0.50	<0.50	<0.50	<0.50	<0.50	2.6	<10	10	<1	<1
GMW-27	10/07/10	130	---	---	---	<100	1.9	<0.50	<0.50	<0.50	<0.50	6.2	900	17	<1	<1
GMW-27	04/13/11	<100	---	---	---	120	<0.50	<0.50	<0.50	<0.50	<1	0.91	480	12	<1	<1
GMW-27	10/12/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.99	300	6.0	<1	<1
GMW-27	04/19/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.54	380	6.8	< 1	< 1
GMW-27	10/18/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	300	5.0	< 1	< 1
GMW-27 DUP	10/18/12	< 100	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 1	0.57	460	7.4	< 1	< 1
GMW-28	05/07/99	43,000	---	<500	---	---	22,000	780	1,400	3,000	<130	1,900	---	---	---	---
GMW-28	05/17/00	19,000	---	---	---	21,000	9,600	<50	370	160	<50	1,300	---	---	---	---
GMW-28	11/28/00	26,000	---	---	---	30,000	13,000	53	650	1,139	<0.50	1,600	---	---	---	---
GMW-28	05/08/01	30,000	---	---	---	27,000	15,000	190	660	310	<5	4,000	---	---	---	---
GMW-28	11/06/01	20,000	---	---	---	19,000	14,000	51	460	241	<0.50	3,200	---	---	---	---
GMW-28	04/09/02	24,000	---	---	---	1,900	9,100	79	320	110	<50	1,200	---	---	---	---
GMW-28	07/07/03	---	---	---	---	---	18,000	140	800	450	<50	530	---	---	---	---
GMW-28	04/28/04	40,000	---	---	---	4,700	22,000	180	1,200	570	<200	280	---	---	---	---
GMW-28	07/08/04	46,000	---	---	---	5,100	20,000	120	1,000	560	<200	280	---	---	---	---
GMW-29	11/28/00	1,600	---	---	---	1,700	170	97	8.0	300	<0.50	54	---	---	---	---
GMW-29	05/08/01	2,200	---	---	---	950	1,300	59	21	30	<0.50	<0.50	---	---	---	---
GMW-29	04/09/02	13,000	---	---	---	11,000	5,400	4,500	240	1,120	<1	34	---	---	---	---
GMW-29	07/08/03	---	---	---	---	---	4,100	670	410	880	<25	<50	---	---	---	---
GMW-29	04/28/04	40,000	---	---	---	6,400	8,700	6,000	910	2,800	<200	<100	---	---	---	---
GMW-29	07/08/04	45,000	---	---	---	5,300	8,900	6,500	900	4,000	<100	<50	---	---	---	---
GMW-3	11/25/96	---	---	---	---	---	<5	<5	<0.50	<1.5	<5	<50	---	---	---	---
GMW-3	07/11/97	<100	---	<500	---	---	<0.50	<0.50	<0.50	<1	<0.50	<5	---	---	---	---
GMW-3	01/05/98	<100	---	<500	---	---	<0.50	<0.50	<0.50	<1.5	<0.50	<5	---	---	---	---
GMW-3	05/26/98	---	---	---	---	---	<0.50	<0.50	<0.50	0.90	<0.50	<0.50	---	---	---	---
GMW-3	11/11/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.7	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹	
Results reported in micrograms per liter (µg/L)																	
GMW-3	05/07/99	<500	---	<500	---	---	1.1	4.4	<0.50	1.9	<1	<0.50	---	---	---	---	
GMW-3	11/17/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	
GMW-3	05/17/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	
GMW-3	11/29/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	
GMW-3	05/10/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	
GMW-3	11/06/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	
GMW-3	04/10/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	
GMW-3	10/22/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	---	---	---	---	
GMW-3	01/29/03	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.96	---	---	---	---	
GMW-3	04/08/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	
GMW-3	07/30/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	
GMW-3	10/06/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	
GMW-3	01/27/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	
GMW-3	04/21/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	
GMW-3	07/19/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	
GMW-3	11/02/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	
GMW-3	05/04/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	
GMW-3	11/03/05	120	---	---	---	710	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	
GMW-3	02/27/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	
GMW-3	05/02/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	
GMW-3	12/05/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	
GMW-3	05/04/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	
GMW-3	11/14/07	<200	---	---	---	1,800	<1	<1	<1	<1	<2	<1	---	---	---	---	
GMW-3	04/16/08	<100	---	---	---	220	<0.50	<0.50	<0.50	<0.50	<1	<0.50	---	---	---	---	
GMW-3	04/16/08	<100	---	---	---	750	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-3	10/14/08	<50	---	---	---	110	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	
GMW-3	04/20/09	<50	---	---	---	<100	0.63	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1	
GMW-3	10/21/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1	
GMW-3	05/26/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1	
GMW-3	10/06/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1	
GMW-3	04/12/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1	
GMW-3	10/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1	
GMW-3	04/18/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1	
GMW-31	11/27/96	1,100	---	<500	<500	---	<2.5	<2.5	<2.5	<5	---	---	---	---	---	---	
GMW-31	07/10/97	55	---	550	<450	---	2.0	<1	<1	<2	---	---	---	---	---	---	
GMW-31	01/07/98	<500	---	<100	<100	---	1.6	<0.30	<0.30	<0.60	---	---	---	---	---	---	
GMW-31	05/21/98	<300	---	---	---	---	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---	
GMW-31	11/06/98	<300	---	---	---	<100	4.8	<0.30	3.5	<0.60	---	---	---	---	---	---	
GMW-31	05/27/99	<300	---	---	---	1,020	<0.30	<0.30	0.52	<0.60	---	---	---	---	---	---	
GMW-31	11/18/99	<300	---	---	---	490	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---	
GMW-31	05/17/00	<300	---	---	---	470	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---	
GMW-31	12/01/00	530	---	---	---	680	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---	
GMW-31	05/10/01	<300	---	---	---	120	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---	
GMW-31	11/07/01	<300	---	---	---	170	0.80	0.49	<0.30	<0.60	---	9.9	---	---	---	---	
GMW-31	04/10/02	<300	---	---	---	120	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---	
GMW-31	10/24/02	<300	---	---	---	<100	<0.30	0.49	<0.30	<0.30	---	<5	---	---	---	---	
GMW-31	04/14/03	---	---	---	---	647	<1	<1	<1	<2	---	<3	---	---	---	---	
GMW-31	10/10/03	---	---	---	---	200	0.39	<0.30	<0.30	<0.30	---	<5	---	---	---	---	
GMW-31	04/22/04	---	---	---	---	<100	<0.30	<0.30	<0.30	<0.30	---	<5	---	---	---	---	
GMW-31	11/06/04	---	---	---	---	<100	<0.30	<0.30	<0.30	<0.30	---	<5	---	---	---	---	
GMW-31	05/07/05	---	---	---	---	<100	<0.30	0.64	<0.30	<0.30	---	<5	---	---	---	---	
GMW-31	11/08/05	---	---	---	---	<100	<0.30	<0.30	<0.30	<0.30	---	<5	---	---	---	---	
GMW-31	05/05/06	---	---	---	---	<100	<0.30	0.79	0.50	2.4	---	<5	---	---	---	---	
GMW-31	12/08/06	---	---	---	---	<100	<0.50	<0.50	<0.50	<1	---	<5	---	---	---	---	
GMW-31	05/03/07	---	---	---	---	170	<0.50	<0.50	<0.50	<1	---	<5	---	---	---	---	
GMW-31	11/14/07	---	---	---	---	<100	<0.50	<0.50	<0.50	<1	---	<5	---	---	---	---	
GMW-31	04/18/08	---	---	---	---	810	<0.50	<0.50	<0.50	<1	---	<5	---	---	---	---	
GMW-31	10/17/08	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-31	04/22/09	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	---	<0.50	<10	<0.50	<0.50	<0.50	
GMW-31	10/20/09	---	140	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	0.57	<10	<2	<2	<2	
GMW-31	04/14/10	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	---	<0.50	<0.50	4.6 J	<2	<2	<2
GMW-31	10/08/10	---	<100	---	---	---	<0.50	---	---	---	<0.50	<0.50	6.5 J	---	---	---	
GMW-31	04/11/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-31	10/10/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
GMW-31	04/16/12	---	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
GMW-31	10/16/12	---	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
GMW-32	11/27/96	430	---	<500	<500	---	13	<0.50	25	<1	---	---	---	---	---	---
GMW-32	07/10/97	63	---	1,800	<1600	---	1.7	<1	<1	<2	---	---	---	---	---	---
GMW-32	01/06/98	<500	---	<100	<100	---	0.40	<0.30	0.70	<0.60	---	---	---	---	---	---
GMW-32	05/21/98	<300	---	---	---	---	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
GMW-32	11/05/98	<300	---	---	---	<100	<0.30	<0.30	0.62	<0.60	---	---	---	---	---	---
GMW-32	11/06/98	---	---	---	---	158	---	---	---	---	---	---	---	---	---	---
GMW-32	05/27/99	<300	---	---	---	307	3.1	<0.30	5.0	1.4	---	---	---	---	---	---
GMW-32	11/18/99	<300	---	---	---	6,500	4.3	<0.30	6.9	1.2	---	---	---	---	---	---
GMW-32	05/17/00	500	---	---	---	8,600	8.0	3.4	16	14	---	---	---	---	---	---
GMW-32	11/30/00	330	---	---	---	2,100	<0.30	<0.30	4.2	<0.60	---	<5	---	---	---	---
GMW-32	05/09/01	1,000	---	---	---	9,500	4.7	<0.30	1.2	2.8	---	<5	---	---	---	---
GMW-32	11/07/01	660	---	---	---	6,900	4.2	0.63	5.7	2.0	---	<5	---	---	---	---
GMW-32	02/01/02	---	---	---	---	---	0.89	<0.50	0.53	0.69	<0.50	0.77	---	---	---	---
GMW-32	04/11/02	<300	---	---	---	210	1.5	<0.30	7.2	<0.60	---	<5	---	---	---	---
GMW-32	10/23/02	<300	---	---	---	1,300	<0.30	<0.30	<0.30	<0.30	---	<5	---	---	---	---
GMW-32	04/09/03	---	---	---	---	2,100	<1	1.2	<1	<2	---	<3	---	---	---	---
GMW-32	10/10/03	---	---	---	---	530	<0.30	<0.30	<0.30	<0.30	---	<5	---	---	---	---
GMW-32	04/21/04	---	---	---	---	1,500	0.52	<1	<1	<1	---	<1	---	---	---	---
GMW-32	11/04/04	---	---	---	---	910	<0.30	<0.30	<0.30	<0.30	---	<5	---	---	---	---
GMW-32	05/06/05	---	---	---	---	700	0.31	0.64	<0.30	0.76	---	<5	---	---	---	---
GMW-32	11/08/05	---	---	---	---	480	<0.30	0.41	<0.30	0.70	---	<5	---	---	---	---
GMW-32	05/04/06	---	---	---	---	690	0.46	0.39	0.62	1.4	---	<5	---	---	---	---
GMW-32	12/08/06	---	---	---	---	110	<0.50	<0.50	<0.50	<1	---	<5	---	---	---	---
GMW-32	05/03/07	---	---	---	---	190	<0.50	<0.50	<0.50	<1	---	<5	---	---	---	---
GMW-32	11/16/07	---	---	---	---	<100	<0.50	<0.50	<0.50	<1	---	<5	---	---	---	---
GMW-32	04/17/08	---	---	---	---	150	<0.50	<0.50	<0.50	<1	---	<5	---	---	---	---
GMW-32	10/16/08	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-32	04/24/09	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-32	10/20/09	---	250	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-32	04/16/10	---	230	---	---	---	<0.50	<0.50	0.41 J	<0.50	---	<0.50	<10	<2	<2	<2
GMW-32	10/07/10	---	180	---	---	---	<0.50	---	---	---	<0.50	<0.50	<10	---	---	---
GMW-32	04/14/11	---	160	---	---	---	<0.50	<0.50	0.25 J	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-32	10/12/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-32	04/19/12	---	210	---	---	---	< 0.50	< 0.50	< 0.50	0.26 J	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
GMW-32	10/19/12	---	1,300	---	---	---	0.2 J	< 0.50	0.14 J	0.32 J	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
GMW-33	11/21/96	<38	---	<500	<500	---	<0.50	<0.50	<0.50	<1.5	<0.50	---	---	---	---	---
GMW-33	07/10/97	<50	---	700	<400	---	<5	<5	<5	<5	<5	---	---	---	---	---
GMW-33	01/06/98	<500	---	<100	<100	---	<0.50	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
GMW-33	05/20/98	<300	---	---	---	---	<0.30	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
GMW-33	11/05/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-33	05/27/99	<300	---	---	---	122	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-33	11/18/99	<300	---	---	---	120	<0.50	<1	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-33	05/17/00	<300	---	---	---	210	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-33	11/30/00	<300	---	---	---	430	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-33	05/09/01	<300	---	---	---	150	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-33	11/07/01	<300	---	---	---	200	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-33	02/01/02	---	---	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-33	04/11/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.80	---	---	---	---
GMW-34	11/18/99	9,500	---	---	---	17,000	30	3.5	8.3	81	<0.50	24	---	---	---	---
GMW-34	05/17/00	740	---	---	---	3,700	<0.50	<0.50	1.5	11	<0.50	30	---	---	---	---
GMW-34	12/01/00	<300	---	---	---	110	<0.50	<0.50	<0.50	<0.50	<0.50	10	---	---	---	---
GMW-34	05/10/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	7.3	---	---	---	---
GMW-34	11/08/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	---	---	---	---
GMW-34	04/12/02	960	---	---	---	1,500	240	1.4	33	81	<0.50	2.5	---	---	---	---
GMW-35	05/09/01	20,000	---	---	---	22,000	1,300	11	580	4,100	<10	<10	---	---	---	---
GMW-35	04/10/03	---	---	---	---	15,600	65	31	109	159	---	<3	---	---	---	---
GMW-35	10/10/03	---	---	---	---	16,000	100	<15	120	650	---	<250	---	---	---	---
GMW-35	04/21/04	---	---	---	---	19,000	110	<1	45	7.3	---	1.5	---	---	---	---
GMW-35	11/04/04	---	---	---	---	18,000	62	<3	13	28	---	<50	---	---	---	---
GMW-35	05/05/05	---	---	---	---	4,700	10	1.4	33	22	---	<10	---	---	---	---
GMW-35	11/05/05	---	---	---	---	3,100	9.1	2.2	31	17	---	<25	---	---	---	---
GMW-35	05/03/06	---	---	---	---	17,000	7.9	2.9	20	12	---	<5	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toulene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
GMW-35	12/08/06	---	---	---	---	4,800	14	<0.50	9.0	6.9	---	<5	---	---	---	---
GMW-35	05/04/07	---	---	---	---	4,700	21	0.86	1.3	5.3	---	6.1	---	---	---	---
GMW-35	11/15/07	---	---	---	---	2,400	26	<0.50	<0.50	<1	---	7.7	---	---	---	---
GMW-35	04/17/08	---	---	---	---	1,300	18	<0.50	1.8	2.5	---	<5	---	---	---	---
GMW-35	04/24/09	---	520	---	---	---	63	<5	<5	<5	---	210	---	<5	<5	<5
GMW-35	04/16/10	---	1,900	---	---	---	180	0.88 J	1.5	0.70	---	13	2,200	<4	<4	<4
GMW-36	07/10/97	430	---	<500	---	---	---	---	---	---	---	---	---	---	---	---
GMW-36	01/09/98	4,000	---	4,300	---	---	22	21	6.1	100	<5	7,700	---	---	---	---
GMW-36	05/20/98	1,400	---	---	---	---	<0.30	<0.30	<10	<20	<0.50	19,600	---	---	---	---
GMW-36	11/17/98	7,900	---	---	---	6,650	2,100	1,370	70	650	<50	34,800	---	---	---	---
GMW-36	05/07/99	2,800	---	<500	---	---	<10	<10	<10	<10	<25	14,000	---	---	---	---
GMW-36	11/18/99	51,000	---	---	---	22,000	8,100	5,600	<250	1,770	<250	47,000	---	---	---	---
GMW-36	05/17/00	59,000	---	---	---	53,000	14,000	6,700	480	4,100	<130	45,000	---	---	---	---
GMW-36	11/30/00	110,000	---	---	---	66,000	20,000	19,000	1,600	8,100	<0.50	13,000	---	---	---	---
GMW-36	02/06/01	75,000	---	---	---	55,000	18,000	13,000	1,400	6,100	<50	9,100	---	---	---	---
GMW-36	05/10/01	12,000	---	---	---	5,100	3,700	2,500	420	1,730	<0.50	1,600	---	---	---	---
GMW-36	09/19/01	21,000	---	---	---	37,000	5,800	3,600	580	2,080	<13	1,000	---	---	---	---
GMW-36	11/06/01	63,000	---	---	---	40,000	16,000	13,000	1,600	7,700	<25	3,200	---	---	---	---
GMW-36	01/30/02	130,000	---	---	---	68,000	21,000	20,000	1,700	9,000	<125	42,000	---	---	---	---
GMW-36	04/10/02	150,000	---	---	---	49,000	25,000	22,000	1,800	10,000	<50	67,000	---	---	---	---
GMW-36	07/30/02	81,000	---	---	---	110,000	28,000	29,000	2,200	11,800	<50	37,000	---	---	---	---
GMW-36	12/06/06	32,000	---	---	---	10,000	5,300	4,300	480	4,300	<50	1,600	---	---	---	---
GMW-36	03/13/07	54,000	---	---	---	7,200	9,400	12,000	1,100	8,200	<200	3,800	---	---	---	---
GMW-36	05/05/07	69,000	---	---	---	11,000	9,800	11,000	1,200	8,000	<200	3,900	---	---	---	---
GMW-36	08/29/07	30,000	---	---	---	9,800	4,100	4,200	420	4,500	120	890	---	---	---	---
GMW-36	02/20/08	34,000	---	---	---	9,100	3,900	6,000	750	4,600	<50	43	---	---	---	---
GMW-36	04/16/08	42,000	---	---	---	11,000	5,200	8,300	940	6,200	<200	<100	---	---	---	---
GMW-36	10/16/08	17,000	---	---	---	32,000	2,100	2,000	160	2,300	<20	26	---	---	---	---
GMW-36	07/22/09	24,000	---	---	---	15,000	3,800	5,400	720	3,380	<50	28	<500	<50	<50	<50
GMW-36	03/16/10	8,000	---	---	---	22,000	830	1,100	140	700	<10	16	690	<10	<10	<10
GMW-36	04/16/10	4,200	---	---	---	25,000	850	150	89	200	<5	11	3,700	<5	<5	<5
GMW-36	07/13/10	500	---	---	---	4,500	49	51	4.9	43	<0.50	0.91	340	<1	<1	<1
GMW-36	08/12/10	9,200	---	---	---	2,200	1,400	1,100	52	980	<10	18	1,600	<10	<10	<10
GMW-36	09/20/10	3,300	---	---	---	5,200	130	18	36	120	<1	130	13,000	<1	<1	1.6
GMW-36	10/05/10	15,000	---	---	---	3,100	2,500	1,300	390	1,200	<20	30	1,300	<20	<20	<20
GMW-36	11/23/10	31,000	---	---	---	21,000	5,100	3,400	890	2,600	<40	51	470	<40	<40	<40
GMW-36	12/22/10	63,000	---	---	---	73,000	6,700	9,600	1,700	5,600	<50	28	<500	<50	<50	<50
GMW-36	01/12/11	320,000	---	---	---	130,000	4,600	2,900	1,400	9,200	<200	<100	<2000	<200	<200	<200
GMW-36	02/24/11	1,600	---	---	---	3,900	110	77	19	130	<1	2.5	2,200	<1	<1	<1
GMW-36	03/23/11	3,200	---	---	---	2,900	360	340	28	240	<3	7.6	2,400	<3	<3	<3
GMW-36	04/29/11	1,500	---	---	---	10,000	75	67	6.8	113	<0.50	3.3	1,700	<1	<1	<1
GMW-36	05/13/11	13,000	---	---	---	11,000	2,300	2,100	93	1,640	<20	43	<200	<20	<20	<20
GMW-36	06/22/11	420	---	---	---	1,500	24	12	2.8	29	<0.50	110	5,900	<1	<1	<1
GMW-36	07/29/11	7,300	---	---	---	3,200	560	570	61	990	<10	350	4,600	<10	<10	<10
GMW-36	08/19/11	13,000	---	---	---	6,200	570	1,100	250	1,900	<20	260	9,000	<20	<20	<20
GMW-36	09/22/11	5,200	---	---	---	2,200	490	240	52	470	<5	660	7,400	<5	<5	17
GMW-36	10/13/11	22,000	---	---	---	160,000	610	490	430	2,200	<20	250	3,700	<20	<20	43
GMW-36	11/23/11	630	---	---	---	34,000	17	<2.5	<2.5	14	<5	110	6,000	<5	<5	<5
GMW-36	12/21/11	700	---	---	---	560	59	55	14	65	<0.50	2.1	340	<1	<1	<1
GMW-36	01/10/12	380	---	---	---	290	78	1.6	5.1	13	<0.5	94	4,900	<1	<1	1.3
GMW-36	02/23/12	45,000	---	---	---	14,000	5,600	8,900	1,700	6,600	<200	<100	<2000	<200	<200	<200
GMW-36	03/28/12	220	---	400	---	---	3.5	4.1	1.2	6.3	<0.5	1.5	130	<1	<1	<1
GMW-36	04/27/12	1,300	---	710	---	---	43	<0.5	2.5	35	<1	64	4,200	<1	<1	1.2
GMW-36	05/25/12	280	---	440	---	---	<0.5	<0.5	<0.5	1.5	<1	14	6,200	<1	<1	<1
GMW-36	06/15/12	460	---	380	---	---	17	4.1	5.5	50	<1	12	780	<1	<1	<1
GMW-36	07/11/12	5,100	---	12,000	---	---	<2.5	6.8	39	300	<5	<2.5	140	<5	<5	<5
GMW-36	09/26/12	14,000	---	6,600	---	---	35	11	<2.5	230	<5	17	100	<5	<5	<5
GMW-36	10/18/12	8,800	---	12,000	---	---	350	33	28	490	<5	70	100	<5	<5	<5
GMW-37	11/25/96	---	---	---	---	---	<0.50	<0.50	<0.50	<1.5	<0.50	<5	---	---	---	---
GMW-37	07/11/97	<100	---	<500	---	---	<0.50	<0.50	<0.50	<1	<0.50	<5	---	---	---	---
GMW-37	01/06/98	<100	---	<500	---	---	<0.50	<0.50	<0.50	<1.5	<0.50	<5	---	---	---	---
GMW-37	05/26/98	<300	---	---	---	---	<0.30	<0.30	<0.50	0.60	<0.50	<0.50	---	---	---	---
GMW-37	11/11/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	11	---	---	---	---
GMW-37	05/07/99	<500	---	<500	---	---	1.1	4.5	<0.50	1.9	<1	14	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
GMW-37	11/18/99	<416	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	16	---	---	---	---
GMW-37	05/17/00	<300	---	---	---	760	<0.50	<0.50	<0.50	<0.50	<0.50	16	---	---	---	---
GMW-37	11/30/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	34	---	---	---	---
GMW-37	02/06/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	54	---	---	---	---
GMW-37	05/08/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-37	09/19/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	11	---	---	---	---
GMW-37	11/06/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	49	---	---	---	---
GMW-37	01/30/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	---	---	---	---
GMW-37	04/10/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	7.2	---	---	---	---
GMW-37	10/22/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	49	---	---	---	---
GMW-37	01/29/03	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.75	---	---	---	---
GMW-37	04/09/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.86	---	---	---	---
GMW-37	07/30/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-37	10/06/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	4.3	---	---	---	---
GMW-37	01/27/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-37	04/20/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-37	07/19/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	2.6	---	---	---	---
GMW-37	11/02/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-37	02/02/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-37	05/04/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-37	08/01/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-37	11/01/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-37	02/27/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-37	05/02/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-37	09/18/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-37	12/05/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-37	05/04/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-37	11/14/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-37	04/16/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-37	10/14/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-37	04/23/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-37	10/19/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-37	05/26/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-37	10/06/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-37	04/12/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-37	10/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-37	04/17/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-37	10/16/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-38	11/26/96	---	---	---	---	---	1.8	<0.50	<0.50	<1.5	<0.50	7.7	---	---	---	---
GMW-38	07/10/97	<100	---	<500	---	---	<0.50	2.0	<0.50	0.83	<0.50	<5	---	---	---	---
GMW-38	01/05/98	<100	---	<500	---	---	<0.50	<0.50	<0.50	<1.5	<0.50	<5	---	---	---	---
GMW-38	05/21/98	<300	---	---	---	---	<0.30	<0.50	<0.50	<1	<0.50	1.2	---	---	---	---
GMW-38	11/12/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	25	---	---	---	---
GMW-38	05/07/99	<500	---	<500	---	---	<0.50	1.5	<0.50	<0.50	<1	7.9	---	---	---	---
GMW-38	11/18/99	<416	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.7	---	---	---	---
GMW-38	05/17/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-38	11/30/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.80	---	---	---	---
GMW-38	05/08/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-38	11/06/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.6	---	---	---	---
GMW-38	02/01/02	---	---	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	1.7	---	---	---	---
GMW-38	04/10/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-38	10/23/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-38	01/29/03	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-38	04/09/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.5	---	---	---	---
GMW-38	07/30/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-38	10/06/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-38	01/28/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-38	04/20/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.4	---	---	---	---
GMW-38	07/19/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-38	11/02/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-38	02/02/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-38	05/04/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	---	---	---	---
GMW-38	08/02/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-38	11/01/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
GMW-38	02/28/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.66	---	---	---	---
GMW-38	05/02/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-38	09/18/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-38	12/05/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-38	03/13/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-38	05/05/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-38	08/30/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-38	11/13/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-38	04/22/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.74	<10	<1	<1	<1
GMW-38	07/21/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.55	27	<1	<1	<1
GMW-38	10/21/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	29	<1	<1	<1
GMW-38	03/15/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-38	05/26/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-38	07/13/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	<10	<1	<1	<1
GMW-38	10/06/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-38	01/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-38	04/12/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-38	07/12/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-38	10/12/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-38	01/10/12	< 50	---	---	---	< 100	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-38	04/18/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-38	07/10/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-38	10/17/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-39	11/21/96	---	---	---	---	---	<0.50	<0.50	<0.50	<1.5	<0.50	<5	---	---	---	---
GMW-39	07/10/97	<100	---	<500	---	---	<0.50	0.50	<0.50	<1	<0.50	<5	---	---	---	---
GMW-39	01/05/98	<100	---	<500	---	---	<0.50	<0.50	<0.50	<1.5	<0.50	<5	---	---	---	---
GMW-39	05/19/98	---	---	---	---	---	<0.30	<0.50	<0.50	<1	<0.50	0.90	---	---	---	---
GMW-39	11/12/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	3.2	---	---	---	---
GMW-39	05/07/99	<500	---	<500	---	---	<0.50	<0.50	<0.50	<0.50	<1	2.9	---	---	---	---
GMW-39	11/18/99	<416	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	12	---	---	---	---
GMW-39	05/17/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	9.4	---	---	---	---
GMW-39	11/29/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	16	---	---	---	---
GMW-39	05/08/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-39	11/06/01	<300	---	---	---	<100	1.2	<0.50	<0.50	<0.50	<0.50	<0.50	39	---	---	---
GMW-39	02/01/02	---	---	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	36	---	---	---
GMW-39	04/10/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	20	---	---	---	---
GMW-39	10/22/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	89	---	---	---	---
GMW-39	01/29/03	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	32	---	---	---	---
GMW-39	04/09/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	23	---	---	---	---
GMW-39	07/30/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	3.3	---	---	---	---
GMW-39	10/06/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	6.6	---	---	---	---
GMW-39	01/28/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	3.6	---	---	---	---
GMW-39	04/20/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	4.8	---	---	---	---
GMW-39	07/19/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	3.7	---	---	---	---
GMW-39	11/03/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	3.7	---	---	---	---
GMW-39	02/02/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.7	---	---	---	---
GMW-39	05/04/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-39	08/02/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-39	11/01/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-39	02/27/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.59	---	---	---	---
GMW-39	05/02/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-39	09/19/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	3.7	---	---	---	---
GMW-39	12/06/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	4.0	---	---	---	---
GMW-39	03/13/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	4.5	---	---	---	---
GMW-39	05/04/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	2.9	---	---	---	---
GMW-39	08/29/07	<500	---	---	---	<100	<2.5	<2.5	<2.5	<2.5	<5	3.6	---	---	---	---
GMW-39	11/13/07	160	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<1	2.6	---	---	---	---
GMW-39	02/20/08	110	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	2.9	---	---	---	---
GMW-39	04/16/08	90	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.9	---	---	---	---
GMW-39	08/14/08	<100	---	---	---	120	<0.50	<0.50	<0.50	<0.50	<1	1.1	---	---	---	---
GMW-39	10/15/08	<500	---	---	---	<100	<2.5	<2.5	<2.5	<2.5	<5	5.6	---	---	---	---
GMW-39	02/24/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	3,400	---	---	---
GMW-39	04/22/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	4,000	<1	<1	<1
GMW-39	07/21/09	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<1	<0.50	2,500	<1	<1	<1

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toulene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
GMW-39	10/22/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	2,200	<1	<1	<1
GMW-39	03/16/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	130	<1	<1	<1
GMW-39	05/27/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-39	07/13/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	230	<1	<1	<1
GMW-39	10/07/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.75	550	<1	<1	<1
GMW-39	01/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	68	<1	<1	<1
GMW-39	04/13/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-39	07/12/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-39	10/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	96	<1	<1	<1
GMW-39	01/10/12	< 50	---	---	---	< 100	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	58	< 1	< 1	< 1
GMW-39	04/19/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	38	< 1	< 1	< 1
GMW-39 DUP	04/19/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	35	< 1	< 1	< 1
GMW-39	07/10/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-39	10/17/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	47	< 1	< 1	< 1
GMW-39 DUP	10/17/12	< 50	---	< 100	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	66	< 1	< 1	< 1
GMW-4	07/15/97	1,300	---	2,100	---	---	38	<0.50	35	45	<0.50	<5	---	---	---	---
GMW-4	01/08/98	380	---	530	---	---	14	1.2	12	19	1.6	<5	---	---	---	---
GMW-4	05/26/98	2,300	---	---	---	---	42	<0.30	69	87	<2.5	<2.5	---	---	---	---
GMW-4	11/18/99	1,600	---	---	---	4,100	67	<0.50	51	24	<0.50	<0.50	---	---	---	---
GMW-4	05/19/00	2,500	---	---	---	3,400	48	0.50	29	37	<0.50	<0.50	---	---	---	---
GMW-4	04/10/03	500	---	---	---	1,100	8.0	<0.50	8.2	26	<0.50	<0.50	---	---	---	---
GMW-4	05/04/07	2,000	---	---	---	13,000	110	<1	27	12	<2	<1	---	---	---	---
GMW-4	04/16/08	16,000	---	---	---	14,000	270	<2.5	110	157	<2.5	<2.5	<50	<10	<10	<10
GMW-4	04/17/08	4,400	---	---	---	40,000	290	<5	89	102	<10	<5	---	---	---	---
GMW-4	11/21/08	4,900	---	---	---	16,000	260	<2.5	45	28	<5	<2.5	---	---	---	---
GMW-4	04/23/09	2,500	---	---	---	9,500	120	<0.50	12	8.6	<1	3.9	<10	<1	<1	<1
GMW-4	05/27/10	2,200	---	---	---	6,100	170	1.1	6.3	10	<2	<1	<20	<2	<2	<2
GMW-4	10/05/10	1,300	---	---	---	<15000	8.2	<1	2.8	2.2	<2	3.2	22	<2	<2	<2
GMW-4	04/14/11	2,800	---	---	---	24,000	130	<1	2.0	3.4	<2	<1	<20	<2	<2	<2
GMW-4	10/12/11	1,200	---	---	---	4,200	62	<1	1.4	<1	<2	3.8	<20	<2	<2	<2
GMW-4	04/20/12	4,600	---	25,000	---	---	170	< 10	< 10	< 10	< 20	< 10	< 200	< 20	< 20	< 20
GMW-4	10/19/12	1,300	---	8,100	---	---	36	< 2.5	< 2.5	< 2.5	< 5	< 2.5	< 50	< 5	< 5	< 5
GMW-40	11/27/96	400	---	<500	<500	---	0.50	<0.50	5.8	5.9	<0.50	<5	---	---	---	---
GMW-40	07/10/97	210	---	2,600	<300	---	---	---	---	---	---	---	---	---	---	---
GMW-40	01/07/98	<500	---	<100	<100	---	<0.50	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
GMW-40	05/21/98	<300	---	---	---	---	<0.30	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
GMW-40	11/05/98	<300	---	---	---	<100	<0.50	<0.50	3.8	7.6	<0.50	<0.50	---	---	---	---
GMW-40	05/26/99	<300	---	---	---	<100	0.90	<0.50	<0.50	<0.50	<0.50	4.4	---	---	---	---
GMW-40	11/18/99	<300	---	---	---	220	2.8	<0.50	0.90	2.8	<0.50	9.3	---	---	---	---
GMW-40	05/17/00	<300	---	---	---	430	<0.50	<0.50	<0.50	<0.50	<0.50	11	---	---	---	---
GMW-40	12/01/00	<300	---	---	---	320	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-40	05/10/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-40	11/08/01	<300	---	---	---	<100	<0.50	<0.50	1.1	3.1	<0.50	19	---	---	---	---
GMW-40	04/12/02	<300	---	---	---	<100	1.7	<0.50	0.70	0.90	<0.50	17	---	---	---	---
GMW-40	04/16/03	---	---	---	---	<100	5.2	<0.50	2.7	4.7	<0.50	55	---	---	---	---
GMW-40	10/08/03	---	---	---	---	170	<0.50	<0.50	<0.50	<0.50	<0.50	52	---	---	---	---
GMW-40	04/22/04	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	39	<10	<2	<2	<2
GMW-40	11/06/04	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-40	05/07/05	---	---	---	---	<100	<0.50	<0.50	<0.50	0.70	<0.50	0.76	<10	<2	<2	<2
GMW-40	11/08/05	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.76	<10	<2	<2	<2
GMW-40	05/05/06	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	4.9	<10	<2	<2	<2
GMW-40	12/08/06	---	---	---	---	110	0.87	<0.50	<0.50	14	<0.50	15	<10	<2	<2	<2
GMW-40	05/03/07	---	---	---	---	440	3.7	<0.50	2.2	27	<0.50	46	63	<2	<2	<2
GMW-40	11/16/07	---	---	---	---	<100	0.61	<0.50	1.9	8.4	<0.50	<0.50	<10	<2	<2	<2
GMW-40	04/18/08	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-40	10/17/08	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	<10	<2	<2	<2
GMW-40	04/24/09	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-40	10/21/09	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	0.4 J	<10	<2	<2	<2
GMW-40	04/14/10	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	---	<0.50	<10	<2	<2	<2
GMW-40	10/06/10	<50	---	---	---	<100	1.2	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-41	11/27/96	250	---	<500	<500	---	<0.50	<0.50	<0.50	<1	<0.50	---	---	---	---	---
GMW-41	07/10/97	75	---	1,200	<1000	---	<5	<5	<5	<5	<5	<5	---	---	---	---
GMW-41	01/07/98	<500	---	<100	<100	---	<0.50	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
GMW-41	05/21/98	<300	---	---	---	---	<0.30	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
GMW-41	11/05/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.0	---	---	---	---
GMW-41	05/26/99	<300	---	---	---	116	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-41	11/18/99	<300	---	---	---	390	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-41	05/17/00	<300	---	---	---	280	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-41	11/30/00	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
GMW-41	05/10/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-41	11/08/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-41	04/12/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.80	---	---	---	---
GMW-41	10/24/02	<300	---	---	---	1,000	<0.50	<1	<1	<1	<0.50	1.1	---	---	---	---
GMW-41	04/16/03	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-41	10/08/03	---	---	---	---	350	<0.50	<0.50	<0.50	<0.50	<0.50	2.4	---	---	---	---
GMW-41	04/22/04	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	3.3	<10	<2	<2	<2
GMW-41	11/06/04	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	3.6	<10	<2	<2	<2
GMW-41	05/07/05	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-41	11/08/05	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-41	05/05/06	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-41	12/08/06	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-41	05/03/07	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.51	<10	<2	<2	<2
GMW-41	11/16/07	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-41	04/18/08	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-41	10/17/08	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-41	04/22/09	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-41	10/21/09	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	0.43 J	<10	<2	<2	<2
GMW-41	04/14/10	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	---	0.33 J	5.7 J	<2	<2	<2
GMW-41	10/06/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-41	10/06/10	---	<100	---	---	---	<0.50	---	---	---	<0.50	<0.50	<10	---	---	---
GMW-41	04/11/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-41	10/11/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-41	04/16/12	---	<100	---	---	---	<0.50	<0.50	<0.50	<1.0	0.50	<0.50	5.4 J	<2.0	<2.0	<2.0
GMW-41	10/16/12	---	<100	---	---	---	<0.50	<0.50	<0.50	<1.0	0.50	<0.50	<10	<2.0	<2.0	<2.0
GMW-42	11/05/98	7,530	---	---	---	3,340	800	<7.5	55	810	---	---	---	---	---	---
GMW-42	05/27/99	6,510	---	---	---	14,200	1,100	110	60	580	---	---	---	---	---	---
GMW-42	11/18/99	7,900	---	---	---	17,000	810	490	180	1,200	---	---	---	---	---	---
GMW-42	05/17/00	3,800	---	---	---	20,000	9.9	1.2	26	230	---	---	---	---	---	---
GMW-42	12/01/00	380	---	---	---	2,700	1.0	<0.30	<0.30	<0.60	---	18	---	---	---	---
GMW-42	05/10/01	490	---	---	---	620	24	40	11	79	---	5.3	---	---	---	---
GMW-42	11/07/01	<300	---	---	---	<100	<0.30	<0.30	<0.30	1.6	---	<5	---	---	---	---
GMW-42	04/10/02	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	7.0	---	---	---	---
GMW-43	11/27/96	620	---	<500	<500	---	<0.50	<0.50	<0.50	<1	---	---	---	---	---	---
GMW-43	07/10/97	<50	---	<50	<50	---	<0.50	<1	<1	<2	---	---	---	---	---	---
GMW-43	01/07/98	<500	---	<100	<100	---	0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
GMW-43	05/21/98	<300	---	---	---	---	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
GMW-43	11/05/98	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
GMW-43	05/27/99	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
GMW-43	11/18/99	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
GMW-43	05/17/00	<300	---	---	---	170	0.92	<0.30	0.45	<0.60	---	---	---	---	---	---
GMW-43	11/30/00	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
GMW-43	05/09/01	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
GMW-43	11/07/01	<300	---	---	---	150	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
GMW-43	04/11/02	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
GMW-43	10/23/02	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.30	---	<5	---	---	---	---
GMW-43	04/14/03	---	---	---	---	<100	<1	<1	<1	<2	---	<3	---	---	---	---
GMW-43	10/08/03	---	---	---	---	<100	<0.30	<0.30	<0.30	<0.30	---	<5	---	---	---	---
GMW-43	04/21/04	---	---	---	---	<100	<0.50	<1	<1	<1	---	<1	---	---	---	---
GMW-43	11/06/04	---	---	---	---	<100	<0.30	<0.30	<0.30	<0.30	---	<5	---	---	---	---
GMW-43	05/10/05	---	---	---	---	<100	<0.30	0.68	<0.30	<0.30	---	<5	---	---	---	---
GMW-43	11/08/05	---	---	---	---	200	<0.30	0.47	<0.30	0.31	---	<5	---	---	---	---
GMW-43	05/04/06	---	---	---	---	180	<0.30	<0.30	<0.30	<0.30	---	<5	---	---	---	---
GMW-43	12/08/06	---	---	---	---	<100	<0.50	<0.50	<0.50	<1	---	<5	---	---	---	---
GMW-43	05/03/07	---	---	---	---	<100	<0.50	<0.50	<0.50	<1	---	8.0	---	---	---	---
GMW-43	11/15/07	---	---	---	---	<100	<0.50	<0.50	<0.50	<1	---	<5	---	---	---	---
GMW-43	04/17/08	---	---	---	---	<100	<0.50	<0.50	<0.50	<1	---	<5	---	---	---	---
GMW-43	10/16/08	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-43	04/23/09	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	---	<0.50	---	<0.50	<0.50	<0.50

**TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012**

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
GMW-43	10/21/09	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-43	04/15/10	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	---	<0.50	<10	<2	<2	<2
GMW-43	10/08/10	---	<100	---	---	---	<0.50	---	---	---	<0.50	<0.50	<10	---	---	---
GMW-43	04/11/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-43	10/11/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-43	04/16/12	---	<100	---	---	---	<0.50	<0.50	<0.50	<1.0	0.50	<0.50	19	<2.0	<2.0	<2.0
GMW-43	10/16/12	---	<100	---	---	---	<0.50	<0.50	<0.50	<1.0	0.50	<0.50	<10	<2.0	<2.0	<2.0
GMW-44	11/27/96	820	---	<500	<500	---	<0.50	<0.50	<0.50	<1	---	---	---	---	---	---
GMW-44	07/10/97	68	---	1,100	<1000	---	<0.50	<1	<1	<2	---	---	---	---	---	---
GMW-44	01/06/98	<500	---	700	<100	---	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
GMW-44	05/21/98	<300	---	---	---	---	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
GMW-44	11/05/98	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
GMW-44	05/27/99	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
GMW-44	11/18/99	<300	---	---	---	310	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
GMW-44	05/17/00	<300	---	---	---	240	<0.30	<0.30	<0.30	1.9	---	---	---	---	---	---
GMW-44	11/30/00	<300	---	---	---	280	0.98	<0.30	0.95	<0.60	---	<5	---	---	---	---
GMW-44	05/09/01	<300	---	---	---	190	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
GMW-44	11/07/01	<300	---	---	---	270	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
GMW-44	04/11/02	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
GMW-44	10/23/02	<300	---	---	---	120	<0.30	<0.30	<0.30	<0.30	---	<5	---	---	---	---
GMW-44	04/14/03	---	---	---	---	<100	<1	<1	<1	<2	---	<3	---	---	---	---
GMW-44	10/08/03	---	---	---	---	230	<0.30	<0.30	<0.30	<0.30	---	<5	---	---	---	---
GMW-44	04/21/04	---	---	---	---	160	<0.50	<1	<1	<1	---	<1	---	---	---	---
GMW-44	11/04/04	---	---	---	---	<100	<0.30	<0.30	<0.30	<0.30	---	<5	---	---	---	---
GMW-44	05/06/05	---	---	---	---	120	0.45	0.68	<0.30	<0.30	---	<5	---	---	---	---
GMW-44	11/08/05	---	---	---	---	<100	<0.30	<0.30	<0.30	0.39	---	<5	---	---	---	---
GMW-44	05/04/06	---	---	---	---	<100	<0.30	<0.30	<0.30	<0.30	---	<5	---	---	---	---
GMW-44	12/08/06	---	---	---	---	<100	<0.50	<0.50	<0.50	<1	---	<5	---	---	---	---
GMW-44	05/04/07	---	---	---	---	160	<0.50	<0.50	<0.50	<1	---	8.3	---	---	---	---
GMW-44	11/15/07	---	---	---	---	<100	<0.50	<0.50	<0.50	<1	---	<5	---	---	---	---
GMW-44	04/17/08	---	---	---	---	<100	<0.50	<0.50	<0.50	<1	---	<5	---	---	---	---
GMW-44	10/16/08	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-44	04/23/09	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	---	<0.50	<10	<0.50	<0.50	<0.50
GMW-44	10/21/09	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-44	04/15/10	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	---	<0.50	<10	<2	<2	<2
GMW-44	10/08/10	---	<100	---	---	---	<0.50	---	---	---	<0.50	<0.50	<10	---	---	---
GMW-44	04/11/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-44	10/11/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-44	04/16/12	---	<100	---	---	---	<0.50	<0.50	<0.50	<1.0	0.50	<0.50	10	<2.0	<2.0	<2.0
GMW-44	10/16/12	---	<100	---	---	---	<0.50	<0.50	<0.50	<1.0	0.50	<0.50	<10	<2.0	<2.0	<2.0
GMW-45	11/22/96	23,000	---	<500	<500	---	1,100	230	580	2,900	<0.50	---	---	---	---	---
GMW-45	07/09/97	1,100	---	2,700	<2000	---	330	<5	280	930	---	---	---	---	---	---
GMW-45	01/06/98	3,200	---	3,400	4,700	---	286	1.3	188	543	---	---	---	---	---	---
GMW-45	05/20/98	4,200	---	---	---	---	270	221	109	569	---	---	---	---	---	---
GMW-45	11/05/98	1,400	---	---	---	<100	81	<0.30	40	75	---	---	---	---	---	---
GMW-45	05/27/99	3,750	---	---	---	3,890	420	<0.60	180	390	---	---	---	---	---	---
GMW-45	11/18/99	3,960	---	---	---	3,100	380	<3	140	100	---	---	---	---	---	---
GMW-45	05/17/00	5,200	---	---	---	5,500	620	8.0	87	37	---	---	---	---	---	---
GMW-45	11/29/00	2,400	---	---	---	3,100	330	1.3	6.0	4.0	---	<10	---	---	---	---
GMW-45	05/09/01	6,500	---	---	---	4,100	620	74	51	420	---	<50	---	---	---	---
GMW-45	11/07/01	5,700	---	---	---	3,000	730	<3	8.5	19	---	<50	---	---	---	---
GMW-45	04/10/02	9,800	---	---	---	6,500	900	21	69	240	---	240	---	---	---	---
GMW-45	10/23/02	3,200	---	---	---	1,300	770	5.5	120	290	---	<5	---	---	---	---
GMW-45	04/10/03	---	---	---	---	1,570	344	11	5.6	10	---	<6	---	---	---	---
GMW-45	10/08/03	---	---	---	---	3,400	470	<0.60	6.5	3.7	---	<10	---	---	---	---
GMW-45	04/21/04	---	---	---	---	1,400	140	<1	2.5	<1	---	<1	---	---	---	---
GMW-45	11/04/04	---	---	---	---	1,500	84	<0.30	3.0	2.9	---	<5	---	---	---	---
GMW-45	05/05/05	---	---	---	---	6,900	670	17	520	720	---	<50	---	---	---	---
GMW-45	11/05/05	---	---	---	---	2,200	340	0.46	130	250	---	10	---	---	---	---
GMW-45	05/03/06	---	---	---	---	2,400	76	4.1	11	16	---	<5	---	---	---	---
GMW-45	12/05/06	---	---	---	---	1,200	67	1.9	3.6	6.4	---	<5	---	---	---	---
GMW-45	05/02/07	---	---	---	---	1,500	37	0.56	2.0	3.0	---	11	---	---	---	---
GMW-45	11/14/07	---	---	---	---	590	42	<0.50	<0.50	<1	---	9.6	---	---	---	---
GMW-45	04/16/08	---	---	---	---	1,500	21	0.52	1.4	2.9	---	<5	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toulene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
GMW-45	10/15/08	---	730	---	---	---	9.7	<0.50	1.9	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-45	04/21/09	---	1,200	---	---	---	11	<2	<2	<2	---	<2	---	---	---	---
GMW-45	10/21/09	---	1,600	---	---	---	15	<0.50	2.2	<0.50	<0.50	<0.50	11	<2	<2	<2
GMW-45	04/12/10	---	1,700	---	---	---	85	<0.50	2.6	0.28	---	<0.50	11	<2	<2	<2
GMW-45	10/07/10	---	1,400	---	---	---	53	---	---	---	<0.50	<0.50	15	---	---	---
GMW-45	04/14/11	---	1,400	---	---	---	150	<0.50	3.6	0.94	<0.50	<0.50	<10	<2	<2	<2
GMW-45	10/11/11	---	1,600	---	---	---	43	<0.33	1.8	0.29	<0.50	<0.50	41	<2	<2	<2
GMW-45	04/19/12	---	1,700	---	---	---	28	0.24 J	1.9	0.80 J	0.50	< 0.50	28	< 2.0	< 2.0	< 2.0
GMW-45	10/17/12	---	1,300	---	---	---	44	< 0.50	1.6	< 1.0	0.50	< 0.50	20	< 2.0	< 2.0	< 2.0
GMW-47	11/27/96	9,600	---	<500	<500	---	1,800	<25	160	660	---	---	---	---	---	---
GMW-47	07/09/97	420	---	93	<400	---	350	<1	170	79	---	---	---	---	---	---
GMW-47	01/06/98	1,900	---	<100	1,800	---	438	11	75	253	<2.5	<2.5	---	---	---	---
GMW-47	05/20/98	<300	---	---	---	---	1.0	<0.30	<0.30	<0.60	---	---	---	---	---	---
GMW-47	11/05/98	1,700	---	---	---	<100	910	4.9	18	140	---	---	---	---	---	---
GMW-47	05/26/99	<300	---	---	---	<100	130	<0.30	0.33	3.0	---	---	---	---	---	---
GMW-47	11/18/99	2,100	---	---	---	1,200	1,100	0.77	5.8	27	---	---	---	---	---	---
GMW-47	05/17/00	7,200	---	---	---	8,000	2,300	700	200	1,100	---	---	---	---	---	---
GMW-47	11/29/00	990	---	---	---	1,100	280	0.59	2.2	<0.60	---	<5	---	---	---	---
GMW-47	03/30/01	---	---	---	---	<50	---	---	---	---	---	---	---	---	---	---
GMW-47	05/09/01	7,600	---	---	---	4,100	1,400	110	55	590	---	16	---	---	---	---
GMW-47	11/07/01	1,500	---	---	---	350	410	8.2	8.7	150	---	<50	---	---	---	---
GMW-47	04/10/02	4,100	---	---	---	1,200	710	150	9.2	360	---	<25	---	---	---	---
GMW-47	10/23/02	4,000	---	---	---	2,900	430	<5	26	100	<2.5	<5	---	---	---	---
GMW-47	04/09/03	---	---	---	---	<100	1.4	<0.50	<0.50	<0.50	<1	<0.50	---	---	---	---
GMW-47	09/18/03	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-47	10/08/03	140	---	---	---	380	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-47	02/21/04	---	---	---	<100	---	4.2	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-47	04/21/04	160	---	---	---	640	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-47	07/21/04	330	---	---	---	330	<0.50	<0.50	<0.50	<0.50	---	<0.50	---	---	---	---
GMW-47	11/03/04	<100	---	---	---	430	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-47	03/02/05	170	---	---	---	110	33	<1	5.8	<1	---	<1	---	---	---	---
GMW-47	05/05/05	420	---	---	---	530	22	<0.50	6.0	18	<0.50	<0.50	<10	<2	<2	<2
GMW-47	08/04/05	<100	---	---	---	110	3.4	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-47	11/05/05	<100	---	---	---	250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-47	03/08/06	<100	---	---	---	160	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-47	05/03/06	<100	---	---	---	340	2.3	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-47	07/28/06	<100	---	---	---	440	0.95	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-47	12/05/06	<100	---	---	---	200	5.4	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-47	03/23/07	<100	---	---	---	420	11	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-47	05/02/07	<100	---	---	---	320	4.8	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-47	08/31/07	<100	---	---	---	400	1.8	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-47	11/13/07	<100	---	---	---	180	0.83	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-47	02/07/08	<100	---	---	---	290	1.7	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-47	04/16/08	<100	---	---	---	270	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-47	07/29/08	<100	---	---	---	450	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-47	10/15/08	<100	300	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-47	02/12/09	170	460	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-47	04/20/09	180	730	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-47	07/20/09	200	1,400	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	15	<2	<2	<2
GMW-47	10/19/09	170	1,200	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	15	<2	<2	<2
GMW-47	01/11/10	---	1,300	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	17	<2	<2	<2
GMW-47	04/19/10	---	930	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	13	<2	<2	<2
GMW-47	10/06/10	---	1,800	---	---	---	0.35 J	---	---	---	<0.50	<0.50	16	---	---	---
GMW-47	01/11/11	---	1,600	---	---	---	5.2	<0.50	0.75	<0.50	<0.50	1.2	17	<2	<2	<2
GMW-47	04/14/11	---	1,800	---	---	---	0.36 J	<0.50	0.27 J	<0.50	<0.50	2.6	<10	<2	<2	<2
GMW-47	07/12/11	---	3,000	---	---	---	0.54	<0.50	0.58	<0.50	<0.50	3.8	32	<2	<2	<2
GMW-47	10/11/11	---	3,900	---	---	---	0.55	<0.50	0.99	0.32	<0.50	6.1	46	<2	<2	<2
GMW-47	01/10/12	---	2,900	---	---	---	0.63	< 0.50	0.74	0.36 J	0.50	7.9	110	< 2.0	< 2.0	< 2.0
GMW-47	04/20/12	---	2,300	---	---	---	0.52	< 0.50	0.68	0.31 J	0.50	5.0	310	< 2.0	< 2.0	< 2.0
GMW-47	07/10/12	---	2,600	---	---	---	0.15 J	< 0.50	0.29 J	0.31 J	0.50	6.5	250	< 2.0	< 2.0	< 2.0
GMW-47	10/17/12	---	1,400	---	---	---	0.46 J	< 0.50	0.17 J	< 1.0	0.50	4.5	310	< 2.0	< 2.0	< 2.0
GMW-48	11/22/96	56,000	---	<500	<500	---	10,000	1,800	1,500	6,900	0.80	---	---	---	---	---
GMW-5	11/27/96	<50	---	<500	<500	---	<0.50	<0.50	<0.50	<1	---	---	---	---	---	---
GMW-5	07/11/97	<50	---	<50	<50	---	<0.50	<1	<1	<2	---	---	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹	
Results reported in micrograms per liter (µg/L)																	
GMW-5	01/06/98	<500	---	<100	<100	---	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---	
GMW-5	05/18/98	---	---	---	---	---	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---	
GMW-5	11/04/98	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---	
GMW-5	05/27/99	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---	
GMW-5	11/18/99	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---	
GMW-5	05/16/00	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---	
GMW-5	11/29/00	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---	
GMW-5	05/09/01	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---	
GMW-5	11/07/01	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---	
GMW-5	04/10/02	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---	
GMW-50	01/10/12	---	820	---	---	---	48	< 0.50	0.24 J	2.5	0.50	0.47 J	9.6 J	< 2.0	< 2.0	< 2.0	
GMW-56	11/05/98	<300	---	---	---	<100	<0.30	<0.30	16	<0.60	---	---	---	---	---	---	
GMW-56	05/27/99	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---	
GMW-56	11/18/99	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---	
GMW-56	05/17/00	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---	
GMW-56	11/29/00	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---	
GMW-56	05/09/01	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---	
GMW-56	11/07/01	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---	
GMW-56	04/10/02	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	12	---	---	---	---	
GMW-56	04/10/03	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	
GMW-56	10/08/03	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	
GMW-56	04/21/04	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-56	11/04/04	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-56	05/05/05	---	---	---	---	120	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-56	11/05/05	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-56	05/03/06	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-56	12/08/06	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-56	05/02/07	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-56	11/14/07	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-56	04/16/08	---	---	---	---	<100	<0.50	<0.50	<0.50	0.94	<0.50	<0.50	<10	<2	<2	<2	
GMW-56	10/15/08	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-56	04/21/09	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-56	10/21/09	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	4.2 J	<2	<2	<2	
GMW-56	04/12/10	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-56	04/15/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-57	11/05/98	<300	---	---	---	<100	12	0.63	4.5	0.97	---	---	---	---	---	---	
GMW-57	05/26/99	379	---	---	---	<100	150	15	12	55	---	---	---	---	---	---	
GMW-57	11/18/99	4,000	---	---	---	<100	3,600	950	240	150	750	---	---	---	---	---	
GMW-57	05/17/00	17,000	---	---	---	<100	3,200	2,200	750	4,300	---	---	---	---	---	---	
GMW-57	11/29/00	11,000	---	---	---	<100	7,100	2,300	21	340	1,800	<100	---	---	---	---	
GMW-57	03/30/01	---	---	---	---	---	1,800	---	---	---	---	---	---	---	---	---	
GMW-57	05/09/01	28,000	---	---	---	---	12,000	3,300	3,100	690	3,600	<50	---	---	---	---	
GMW-57	11/07/01	19,000	---	---	---	---	11,000	3,900	1,600	390	3,400	<500	---	---	---	---	
GMW-57	04/10/02	5,000	---	---	---	---	5,300	720	150	8.2	360	<2.5	<2.5	---	---	---	
GMW-57	10/23/02	1,700	---	---	---	---	2,000	690	<0.30	3.2	5.7	<5	---	---	---	---	
GMW-57	04/09/03	---	---	---	---	<100	<1	<1	<1	<2	---	<3	---	---	---	---	
GMW-57	09/18/03	---	---	---	---	---	170	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	
GMW-57	10/11/03	200	---	---	---	---	650	47	<0.50	0.57	<0.50	<0.50	---	---	---	---	
GMW-57	02/21/04	---	---	---	---	---	470	---	---	---	---	<0.50	---	---	---	---	
GMW-57	04/21/04	110	---	---	---	---	710	21	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-57	07/21/04	340	---	---	---	---	720	48	<0.50	<0.50	<0.50	---	<0.50	270	57	54	50
GMW-57	11/03/04	120	---	---	---	---	270	22	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-57	03/02/05	400	---	---	---	---	170	190	<1	2.5	<1	<1	---	---	---	---	
GMW-57	05/05/05	280	---	---	---	---	170	57	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-57	08/04/05	170	---	---	---	---	430	120	<0.50	0.54	<0.50	<0.50	<10	<2	<2	<2	
GMW-57	11/05/05	120	---	---	---	---	100	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-57	03/08/06	180	---	---	---	---	180	4.8	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-57	05/03/06	<100	---	---	---	---	280	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-57	07/28/06	180	---	---	---	---	1,100	1.8	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-57	12/05/06	<100	---	---	---	---	290	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-57	03/23/07	120	---	---	---	---	540	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-57	05/02/07	120	---	---	---	---	720	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-57	08/31/07	110	---	---	---	---	700	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-57	11/13/07	160	---	---	---	---	450	0.72	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toulene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
GMW-57	02/07/08	150	---	---	---	720	4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	04/16/08	<100	---	---	---	540	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	07/29/08	<100	---	---	---	390	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	10/15/08	<100	210	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	02/12/09	<100	140	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	04/20/09	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	07/21/09	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	10/19/09	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	8.1 J	<2	<2	<2
GMW-57	01/11/10	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	04/12/10	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	10/06/10	---	<100	---	---	---	<0.50	---	---	---	<0.50	<0.50	<10	---	---	---
GMW-57	01/10/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	04/11/11	---	<100	---	---	---	1.4	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	07/11/11	---	130	---	---	---	10	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-57	10/11/11	---	<100	---	---	---	1.6	<0.50	<0.50	0.48	<0.50	<0.50	<10	<2	<2	<2
GMW-57	01/09/12	---	<100	---	---	---	<0.50	<0.50	<0.50	<1.0	0.50	<0.50	<10	<2.0	<2.0	<2.0
GMW-57	04/17/12	---	200	---	---	---	<0.50	<0.50	<0.50	<1.0	0.50	<0.50	<10	<2.0	<2.0	<2.0
GMW-57	07/09/12	---	330	---	---	---	<0.50	<0.50	<0.50	<1.0	0.50	<0.50	<10	<2.0	<2.0	<2.0
GMW-57	10/16/12	---	110	---	---	---	<0.50	<0.50	<0.50	<1.0	0.50	<0.50	<10	<2.0	<2.0	<2.0
GMW-58	11/04/98	2,590	---	---	---	1,700	200	210	67	280	---	---	---	---	---	---
GMW-58	05/26/99	1,360	---	---	---	451	310	62	42	170	---	---	---	---	---	---
GMW-58	11/18/99	1,600	---	---	---	1,900	82	26	20	100	---	---	---	---	---	---
GMW-58	05/17/00	21,000	---	---	---	36,000	3,500	5,900	730	3,900	---	---	---	---	---	---
GMW-58	03/02/05	5,800	---	---	---	22,000	1,700	<20	250	400	---	<20	---	---	---	---
GMW-58	05/05/05	12,000	---	---	---	36,000	410	<2.5	13	600	<2.5	<2.5	<50	<10	<10	<10
GMW-58	08/04/05	5,800	---	---	---	24,000	500	<2.5	56	124	<2.5	<2.5	<50	<10	<10	<10
GMW-58	11/05/05	6,300	---	---	---	9,700	560	<2.5	380	196	<2.5	<2.5	<50	<10	<10	<10
GMW-58	03/08/06	5,300	---	---	---	34,000	250	<2.5	140	21	<2.5	<2.5	<50	<10	<10	<10
GMW-58	05/03/06	2,900	---	---	---	16,000	260	<1	85	27	<1	<1	<20	<4	<4	<4
GMW-58	07/28/06	3,200	---	---	---	15,000	310	<1	78	23	<1	<1	<20	<4	<4	<4
GMW-58	03/23/07	1,700	---	---	---	4,100	350	<1	5.9	<1	<1	<1	<20	<4	<4	<4
GMW-58	05/02/07	2,200	---	---	---	2,500	320	<1	9.5	<1	<1	<1	<20	<4	<4	<4
GMW-58	08/31/07	3,000	---	---	---	2,400	240	<2.5	<2.5	<2.5	<2.5	<2.5	<50	<10	<10	<10
GMW-58	11/13/07	2,000	---	---	---	720	240	<1	7.4	<1	<1	<1	<20	<4	<4	<4
GMW-58	02/07/08	1,100	---	---	---	5,000	270	<1	1.8	<1	<1	<1	<20	<4	<4	<4
GMW-58	04/16/08	1,100	---	---	---	720	310	<2.5	<2.5	<2.5	8.4	<2.5	<50	<10	<10	<10
GMW-58	07/29/08	870	---	---	---	750	45	<0.50	<0.50	<0.50	<0.50	0.77	<10	<2	<2	<2
GMW-58	10/15/08	1,200	840	---	---	---	62	<0.50	0.67	0.62	<0.50	<0.50	<10	<2	<2	<2
GMW-58	02/12/09	1,000	2,200	---	---	---	36	<0.50	0.85	<0.50	<0.50	0.55	<10	<2	<2	<2
GMW-58	04/20/09	130	230	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	13	<10	<2	<2	<2
GMW-58	07/20/09	100	300	---	---	---	1.2	<0.50	<0.50	<0.50	<0.50	6.4	<10	<2	<2	<2
GMW-58	10/19/09	1,000	2,200	---	---	---	9.5	<0.50	0.24 J	<0.50	<0.50	1.5	6 J	<2	<2	<2
GMW-58	01/11/10	---	190	---	---	---	9.7	<0.50	<0.50	<0.50	<0.50	1.7	3.8 J	<2	<2	<2
GMW-58	04/19/10	---	300	---	---	---	12	<0.50	<0.50	<0.50	<0.50	0.81	5.7 J	<2	<2	<2
GMW-58	10/06/10	---	170	---	---	---	8.6	---	---	---	<0.50	<0.50	<10	---	---	---
GMW-58	01/10/11	---	410	---	---	---	5.8	<0.50	<0.50	<0.50	<0.50	0.46 J	<10	<2	<2	<2
GMW-58	04/13/11	---	1,300	---	---	---	94	<0.50	0.35 J	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-58	07/11/11	---	220	---	---	---	31	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-58	10/11/11	---	350	---	---	---	27	<0.50	<0.50	<0.50	<0.50	0.65	<10	<2	<2	<2
GMW-58	04/18/12	---	710	---	---	---	28	<0.50	0.18 J	0.48 J	0.82	0.54	<10	<2.0	<2.0	<2.0
GMW-58	07/10/12	---	890	---	---	---	27	<0.50	<0.50	<1.0	0.50	0.46 J	18	<2.0	<2.0	<2.0
GMW-58	10/17/12	---	790	---	---	---	18	<0.50	<0.50	<1.0	0.50	<0.50	<10	<2.0	<2.0	<2.0
GMW-59	11/04/98	9,880	---	---	---	12,400	950	600	210	620	---	---	---	---	---	---
GMW-59	11/29/00	67,000	---	---	---	21,000	3,500	900	750	3,600	---	<130	---	---	---	---
GMW-59	04/10/03	---	---	---	---	29,600	261	4.8	18	110	---	<3	---	---	---	---
GMW-59	10/08/03	---	---	---	---	4,900	760	<3	65	450	---	<50	---	---	---	---
GMW-59	04/21/04	---	---	---	---	5,000	590	<1	100	276	---	380	---	---	---	---
GMW-59	11/03/04	---	---	---	---	4,000	95	<0.60	15	18	---	<10	---	---	---	---
GMW-59	03/02/05	4,200	---	---	---	23,000	400	<5	130	22	---	35	---	---	---	---
GMW-59	05/05/05	11,000	---	---	---	9,400	170	<0.50	60	7.8	<0.50	11	<10	<2	<2	<2
GMW-59	08/04/05	6,400	---	---	---	17,000	140	<1	56	6.6	<1	<1	<20	<4	<4	<4
GMW-59	11/05/05	9,500	---	---	---	26,000	270	<0.50	26	2.2	<0.50	<0.50	<10	<2	<2	<2
GMW-59	03/08/06	4,600	---	---	---	13,000	260	<1	7.4	<1	<1	<1	<20	<4	<4	<4
GMW-59	05/03/06	9,900	---	---	---	9,300	210	<1	4.0	<1	<1	<1	<20	<4	<4	<4

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
GMW-59	07/28/06	3,200	---	---	---	37,000	540	<1	3.1	<1	<1	4.8	<20	<4	<4	<4
GMW-59	12/05/06	---	---	---	---	9,000	800	4.3	5.2	11	---	<10	---	---	---	---
GMW-59	03/23/07	8,200	---	---	---	15,000	840	<2.5	<2.5	<2.5	<2.5	<2.5	<50	<10	<10	<10
GMW-59	05/02/07	4,800	---	---	---	7,400	1,100	<2.5	<2.5	<2.5	<2.5	<2.5	<50	<10	<10	<10
GMW-59	08/31/07	4,800	---	---	---	3,500	720	<2.5	<2.5	<2.5	<2.5	<2.5	<50	<10	<10	<10
GMW-59	11/13/07	4,700	---	---	---	2,200	660	<5	<5	<5	<5	<5	<100	<20	<20	<20
GMW-59	02/07/08	3,200	---	---	---	3,900	490	<2.5	3.8	<2.5	<2.5	2.7	<50	<10	<10	<10
GMW-59	04/16/08	3,600	---	---	---	2,100	580	<2.5	3.5	<2.5	15	3.7	<50	<10	<10	<10
GMW-59	07/29/08	2,300	---	---	---	2,900	580	<2.5	<2.5	<2.5	<2.5	3.3	<50	<10	<10	<10
GMW-59	10/15/08	2,500	2,400	---	---	---	830	<2.5	<2.5	<2.5	<2.5	5.5	<50	<10	<10	<10
GMW-59	02/12/09	2,500	2,600	---	---	---	650	<2.5	<2.5	<2.5	<2.5	3.2	<50	<10	<10	<10
GMW-59	04/20/09	8,500	19,000	---	---	---	610	<2.5	<2.5	<2.5	<2.5	2.7	<50	<10	<10	<10
GMW-59	07/20/09	6,700	11,000	---	---	---	520	<2.5	<2.5	<2.5	<2.5	3.5	<50	<10	<10	<10
GMW-59	10/21/09	2,600	3,000	---	---	---	1,700	<2.5	1.4 J	<2.5	<2.5	16	18 J	<10	<10	<10
GMW-59	01/11/10	---	1,900	---	---	---	2,200	<10	<10	<10	<10	17	<200	<40	<40	<40
GMW-59	04/19/10	2,900	1,700	---	---	---	570	<0.50	1.9	<0.50	<0.50	2.3	11	<2	<2	<2
GMW-59	10/06/10	850	1,500	---	---	---	87	---	---	---	<0.50	3.5	17	---	---	---
GMW-59	01/11/11	2,500	4,100	---	---	---	1,100	<0.50	1.1	<0.50	<0.50	8.8	23	<2	<2	<2
GMW-59	04/14/11	10,000	3,800	---	---	---	130	<0.50	0.85	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-59	07/12/11	1,400	1,700	---	---	---	14	<0.50	0.43 J	<0.50	<0.50	<0.50	8 J	<2	<2	<2
GMW-59	10/11/11	<1800	2,500	---	---	---	130	<0.24	0.78	<0.50	<0.50	2.1	13	<2	<2	<2
GMW-59	01/10/12	2,800	2,600	---	---	---	340	0.24 J	0.54	< 1.0	0.50	5.2	16	< 2.0	< 2.0	< 2.0
GMW-59 DUP	01/10/12	---	2,900	---	---	---	330	0.26 J	0.55	< 1.0	0.50	4.5	33	< 2.0	< 2.0	< 2.0
GMW-59	04/20/12	3,100	3,800	---	---	---	870	0.27 J	0.85	0.24 J	0.50	8.4	36	< 2.0	< 2.0	< 2.0
GMW-59 DUP	04/20/12	---	3,600	---	---	---	930	0.26 J	0.96	< 1.0	0.50	8.9	24	< 2.0	< 2.0	< 2.0
GMW-59	07/10/12	---	6,300	---	---	---	1,100	< 5.0	1.5 J	< 10.0	< 5.0	9.7	< 100	< 20	< 20	< 20
GMW-59 DUP	07/10/12	---	---	---	---	---	1,100	< 5.0	1.6 J	< 10.0	< 5.0	9.3	< 100	< 20	< 20	< 20
GMW-59	10/19/12	3,400	4,800	---	---	---	1,000	< 5.0	1.8 J	< 10.0	< 5.0	7.8	< 100	< 20	< 20	< 20
GMW-59 DUP	10/19/12	---	5,500	---	---	---	1,000	< 5.0	1.8 J	< 10.0	< 5.0	7.5	< 100	< 20	< 20	< 20
GMW-6	11/27/96	5,300	---	<500	<500	---	330	<12	320	300	---	---	---	---	---	---
GMW-6	07/09/97	<50	---	<50	<50	---	2.7	<1	1.4	<2	<5	---	---	---	---	---
GMW-6	01/07/98	<500	---	<100	<100	---	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
GMW-6	05/21/98	<300	---	---	---	---	<0.50	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
GMW-6	11/05/98	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
GMW-6	05/27/99	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
GMW-6	11/18/99	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
GMW-6	05/16/00	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
GMW-6	11/29/00	<300	---	---	---	550	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
GMW-6	05/09/01	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
GMW-6	11/07/01	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
GMW-6	04/10/02	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
GMW-6	10/23/02	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
GMW-6	04/10/03	---	---	---	---	<100	<1	<1	<1	<2	---	<3	---	---	---	---
GMW-6	10/08/03	---	---	---	---	130	<0.30	<0.30	<0.30	<0.30	---	<5	---	---	---	---
GMW-6	04/22/04	---	---	---	---	<100	0.41	<0.30	<0.30	<0.30	---	<5	---	---	---	---
GMW-6	11/06/04	---	---	---	---	4,100	<0.30	<0.30	<0.30	<0.30	---	<5	---	---	---	---
GMW-6	05/06/05	---	---	---	---	<100	<0.30	0.46	<0.30	<0.30	---	<5	---	---	---	---
GMW-6	11/08/05	---	---	---	---	<100	<0.30	<0.30	<0.30	<0.30	---	<5	---	---	---	---
GMW-6	05/03/06	---	---	---	---	<100	<0.30	<0.30	<0.30	<0.30	---	<5	---	---	---	---
GMW-6	12/08/06	---	---	---	---	<100	<0.50	<0.50	<0.50	1.3	---	<5	---	---	---	---
GMW-6	05/02/07	---	---	---	---	<100	0.58	0.54	<0.50	<1	---	<5	---	---	---	---
GMW-6	08/31/07	3,400	---	---	---	1,100	400	96	45	188	<0.50	<0.50	<10	<2	<2	<2
GMW-6	11/14/07	---	---	---	---	<100	<0.50	<0.50	<0.50	<1	---	<5	---	---	---	---
GMW-6	11/15/07	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	<2
GMW-6	04/16/08	---	---	---	---	<100	<0.50	<0.50	<0.50	<1	---	<5	---	---	---	---
GMW-6	10/15/08	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	<10	<2	<2	<2
GMW-6	04/21/09	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	---	43	---	---	---	---
GMW-6	07/21/09	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	<2
GMW-6	10/20/09	---	110	---	---	---	1.5	<0.50	<0.50	<0.50	<0.50	350	<10	<2	<2	0.51 J
GMW-6	04/12/10	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	---	7.2	<10	<2	<2	<2
GMW-6	10/05/10	---	170	---	---	---	0.35 J	---	---	---	<0.50	130	210	---	---	---
GMW-6	02/24/11	<50	---	---	---	120	0.53	<0.50	<0.50	<0.50	<0.50	9.6	120	<1	<1	<1
GMW-6	04/13/11	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-6	10/10/11	---	290	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	1.8	220	<2	<2	<2

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toulene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
GMW-6	04/19/12	---	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	0.34 J	< 10	< 2.0	< 2.0	< 2.0
GMW-6	10/15/12	---	< 100	---	---	---	< 0.50	< 0.50	0.17 J	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
GMW-60	07/21/04	15,000	---	---	---	5,300	1,700	160	710	2,050	---	<0.50	---	---	---	---
GMW-60	11/03/04	12,000	---	---	---	3,500	1,700	70	900	1,780	<5	<5	<100	<20	<20	<20
GMW-60	03/02/05	8,300	---	---	---	4,900	1,300	<20	860	2,040	---	<20	---	---	---	---
GMW-60	05/05/05	9,400	---	---	---	4,600	1,100	<5	790	1,740	<5	<5	<100	<20	<20	<20
GMW-60	08/04/05	6,200	---	---	---	5,600	1,000	<5	680	1,070	<5	<5	<100	<20	<20	<20
GMW-60	11/05/05	7,200	---	---	---	4,400	970	<5	710	1,130	<5	<5	<100	<20	<20	<20
GMW-60	03/08/06	5,900	---	---	---	5,200	680	<5	640	800	<5	<5	<100	<20	<20	<20
GMW-60	05/03/06	3,900	---	---	---	2,200	770	<5	230	235	<5	<5	<100	<20	<20	<20
GMW-60	07/28/06	4,600	---	---	---	4,900	850	<5	170	102	<5	<5	<100	<20	<20	<20
GMW-60	12/05/06	4,100	---	---	---	920	660	<5	130	92	<5	<5	<100	<20	<20	<20
GMW-60	03/23/07	3,500	---	---	---	1,700	490	<2.5	87	80	<2.5	<2.5	<50	<10	<10	<10
GMW-60	05/02/07	2,800	---	---	---	630	300	<2.5	18	23	<2.5	<2.5	<50	<10	<10	<10
GMW-60	08/31/07	2,000	---	---	---	660	250	<2.5	18	5.9	<2.5	<2.5	<50	<10	<10	<10
GMW-60	11/13/07	1,500	---	---	---	<100	180	<0.50	21	4.3	<0.50	<0.50	<10	<2	<2	<2
GMW-60	02/07/08	1,700	---	---	---	290	270	0.80	65	48	<0.50	<0.50	<10	<2	<2	<2
GMW-60	04/16/08	1,400	---	---	---	920	160	<1	24	<1	<1	<1	<20	<4	<4	<4
GMW-60	07/29/08	2,000	---	---	---	610	240	<1	3.9	<1	<1	<1	<20	<4	<4	<4
GMW-60	10/15/08	1,400	270	---	---	---	220	<1	2.7	<1	<1	<1	<20	<4	<4	<4
GMW-60	02/12/09	1,600	490	---	---	---	200	<1	2.5	<1	<1	<1	<20	<4	<4	<4
GMW-60	04/20/09	3,500	1,100	---	---	---	800	<5	7.9	<5	<5	<5	<100	<20	<20	<20
GMW-60	07/20/09	3,200	1,700	---	---	---	940	<5	11	<5	<5	<5	<100	<20	<20	<20
GMW-60	10/19/09	2,600	930	---	---	---	800	<5	8.8	<5	<5	<5	<100	<20	<20	<20
GMW-60	01/11/10	---	<100	---	---	---	940	<5	12	<5	<5	<1	<100	<20	<20	<20
GMW-60	04/13/10	1,900	1,300	---	---	---	580	<0.50	8.7	0.26	<0.50	<0.50	<10	<2	<2	<2
GMW-60	10/06/10	560	1,900	---	---	---	770	---	---	---	<0.50	<0.50	<10	---	---	---
GMW-60	01/11/11	3,200	2,100	---	---	---	870	<0.50	12	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-60	04/15/11	2,100	1,200	---	---	---	590	<0.50	9.8	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-60	07/12/11	2,200	1,500	---	---	---	560	<0.50	10	0.27	<0.50	<0.50	8.8 J	<2	<2	<2
GMW-60	10/11/11	2,300	1,500	---	---	---	510	<0.50	9.1	0.38	<0.50	<0.50	<10	<2	<2	<2
GMW-60	01/10/12	2,100	990	---	---	---	210	0.3 J	7.3	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
GMW-60	04/20/12	1,200	1,300	---	---	---	13	< 0.50	3.1	0.36 J	0.50	< 0.50	14	< 2.0	< 2.0	< 2.0
GMW-60	07/10/12	---	1,200	---	---	---	5.1	< 0.50	0.70	0.24 J	0.50	< 0.50	69	< 2.0	< 2.0	< 2.0
GMW-60	10/17/12	630	1,100	---	---	---	1.5	< 0.50	0.4 J	< 1.0	0.50	< 0.50	280	< 2.0	< 2.0	< 2.0
GMW-61	07/21/04	19,000	---	---	---	14,000	2,400	1,700	1,000	4,000	---	<0.50	---	---	---	---
GMW-61	11/03/04	23,000	---	---	---	5,700	2,500	2,200	1,200	5,000	<5	<5	<100	<20	<20	<20
GMW-61	03/02/05	20,000	---	---	---	10,000	2,700	1,900	1,100	5,900	---	<20	---	---	---	---
GMW-61	05/05/05	11,000	---	---	---	7,000	2,000	310	840	2,500	<10	<10	<200	<40	<40	<40
GMW-61	08/04/05	11,000	---	---	---	12,000	1,900	740	740	3,500	<10	<10	<200	<40	<40	<40
GMW-61	11/05/05	16,000	---	---	---	10,000	2,600	480	1,100	4,900	<10	<10	<200	<40	<40	<40
GMW-61	03/08/06	11,000	---	---	---	7,900	2,100	280	1,000	2,700	<10	<10	<200	<40	<40	<40
GMW-61	05/03/06	9,600	---	---	---	7,300	1,900	89	810	2,030	<10	<10	<200	<40	<40	<40
GMW-61	07/28/06	7,200	---	---	---	9,900	1,400	20	460	1,290	<10	<10	<200	<40	<40	<40
GMW-61	12/05/06	7,900	---	---	---	4,000	1,500	19	330	2,050	<5	<5	<100	<20	<20	<20
GMW-61	03/23/07	7,500	---	---	---	3,100	1,200	16	220	1,340	<5	<5	<100	<20	<20	<20
GMW-61	05/02/07	11,000	---	---	---	3,000	1,600	27	290	2,090	<5	<5	<100	<20	<20	<20
GMW-61	08/31/07	9,200	---	---	---	1,600	1,500	17	190	1,170	<0.50	<0.50	<10	<2	<2	<2
GMW-61	11/13/07	2,300	---	---	---	<100	580	6.3	99	360	<5	<5	<100	<20	<20	<20
GMW-61	02/07/08	2,600	---	---	---	890	330	8.6	70	363	<2.5	<2.5	<50	<10	<10	<10
GMW-61	04/16/08	2,000	---	---	---	1,100	480	5.0	64	399	<2.5	<2.5	<50	<10	<10	<10
GMW-61	07/29/08	1,500	---	---	---	790	400	<2.5	28	129	<2.5	<2.5	<50	<10	<10	<10
GMW-61	10/15/08	1,300	500	---	---	---	450	<2.5	34	150	<2.5	<2.5	<50	<10	<10	<10
GMW-61	02/12/09	1,100	<100	---	---	---	340	<2.5	13	57	<2.5	<2.5	<50	<10	<10	<10
GMW-61	04/20/09	1,100	550	---	---	---	490	<2.5	<2.5	<2.5	<2.5	<2.5	<50	<10	<10	<10
GMW-61	07/20/09	760	560	---	---	---	350	<2.5	<2.5	<2.5	<2.5	<2.5	<50	<10	<10	<10
GMW-61	10/19/09	620	410	---	---	---	320	<2.5	1.2 J	<2.5	<2.5	<2.5	<50	<10	<10	<10
GMW-61	01/11/10	---	<100	---	---	---	190	<1	0.99 J	<1	<1	<1	<20	<4	<4	<4
GMW-61	04/15/10	740	500	---	---	---	380	<0.50	1.7	<0.50	<0.50	<0.50	3.7 J	<2	<2	<2
GMW-61	10/06/10	1,200	550	---	---	---	100	---	---	---	<0.50	<0.50	<10	---	---	---
GMW-61	01/10/11	800	910	---	---	---	190	<0.50	1.8	0.48	<0.50	<0.50	<10	<2	<2	<2
GMW-61	04/14/11	790	700	---	---	---	110	<0.50	1.2	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-61	07/12/11	230	240	---	---	---	6.4	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-61	10/11/11	140	<100	---	---	---	<0.50									

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹	
Results reported in micrograms per liter (µg/L)																	
GMW-61	01/10/12	210	100	---	---	---	0.15 J	1.1	< 0.50	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0	
GMW-61	04/19/12	190	250	---	---	---	9.1	0.63	0.2 J	0.33 J	0.50	< 0.50	27	< 2.0	< 2.0	< 2.0	
GMW-61 DUP	04/19/12	---	300	---	---	---	9.3	0.97	0.21 J	0.32 J	0.50	< 0.50	26	< 2.0	< 2.0	< 2.0	
GMW-61	07/10/12	---	510	---	---	---	110	0.29 J	0.87	0.28 J	0.50	< 0.50	14	< 2.0	< 2.0	< 2.0	
GMW-61	10/19/12	1,500	800	---	---	---	290	0.87	2.5	0.63	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0	
GMW-61 DUP	10/19/12	---	880	---	---	---	250	0.87	2.4	0.52	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0	
GMW-62	11/14/07	4,200	---	---	---	<100	1,400	85	160	92	<5	<5	<100	<20	<20	<20	
GMW-62	02/07/08	4,100	---	---	---	---	1,400	2,100	190	450	610	<5	<5	<100	<20	<20	<20
GMW-62	04/17/08	1,000	---	---	---	---	500	430	15	50	24	<5	<5	<100	<20	<20	<20
GMW-62	07/29/08	2,400	---	---	---	---	1,000	1,300	33	160	109	<2.5	<2.5	<50	<10	<10	<10
GMW-62	10/15/08	2,800	180	---	---	---	1,700	19	220	161	<5	<5	<100	<20	<20	<20	
GMW-62	02/12/09	3,600	1,600	---	---	---	1,800	5.1	150	164	<5	<5	<100	<20	<20	<20	
GMW-62	04/23/09	1,500	150	---	---	---	370	<2.5	25	5.2	<2.5	<2.5	<50	<10	<10	<10	
GMW-62	07/21/09	1,800	1,100	---	---	---	1,200	<2.5	67	36	<2.5	<2.5	<50	<10	<10	<10	
GMW-62	10/21/09	2,200	480	---	---	---	1,700	<2.5	43	13	<2.5	<2.5	<50	<10	<10	<10	
GMW-62	01/12/10	---	2,200	---	---	---	3,900	<10	22	30	100	<1	<200	<40	<40	<40	
GMW-62	04/14/10	2,400	430	---	---	---	1,600	0.60	26	45	<0.50	<0.50	<10	<2	<2	<2	
GMW-62	10/05/10	6,700	3,400	---	---	---	1,200	---	---	---	<0.50	<0.50	<10	---	---	---	
GMW-63	10/15/08	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-63	02/12/09	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-63	04/23/09	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-63	07/21/09	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-63	10/22/09	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-63	01/12/10	---	<100	---	---	---	0.39 J	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-63	04/14/10	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-63	10/05/10	---	<100	---	---	---	<0.50	---	---	---	<0.50	<0.50	<10	---	---	---	
GMW-63	01/10/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-63	04/12/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-63	07/11/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-63	10/12/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-63	01/09/12	---	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0	
GMW-63	04/17/12	---	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0	
GMW-63	07/09/12	---	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0	
GMW-63	10/17/12	---	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0	
GMW-64	10/15/08	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-64	02/12/09	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-64	04/23/09	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-64	07/21/09	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-64	10/21/09	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-64	01/12/10	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-64	04/14/10	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-64	10/05/10	---	<100	---	---	---	<0.50	---	---	---	<0.50	<0.50	<10	---	---	---	
GMW-64	01/10/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-64	04/12/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-64	07/11/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-64	10/12/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-64	01/09/12	---	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0	
GMW-64	04/17/12	---	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0	
GMW-64	07/09/12	---	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0	
GMW-64	10/17/12	---	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0	
GMW-65	10/22/09	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-65	01/12/10	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-65	04/14/10	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-65	10/05/10	---	100	---	---	---	0.32 J	---	---	---	<0.50	<0.50	<10	---	---	---	
GMW-65	01/10/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-65	04/13/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-65	07/11/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-65	10/12/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	
GMW-65	01/09/12	---	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0	
GMW-65 DUP	01/09/12	---	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0	
GMW-65	04/18/12	---	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0	
GMW-65	07/09/12	---	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0	
GMW-65	10/17/12	---	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0	
GMW-66	10/22/09	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2	

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
GMW-66	04/19/10	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-66	10/06/10	---	<100	---	---	---	<0.50	---	---	---	<0.50	<0.50	<10	---	---	---
GMW-66	04/12/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-66	10/12/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GMW-66	04/17/12	---	<100	---	---	---	<0.50	<0.50	<0.50	<1.0	0.50	<0.50	<10	<2.0	<2.0	<2.0
GMW-66	10/17/12	---	<100	---	---	---	<0.50	<0.50	<0.50	<1.0	0.50	<0.50	<10	<2.0	<2.0	<2.0
GMW-7	05/21/98	---	---	---	---	---	<0.50	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
GMW-7	12/01/00	520,000	---	---	---	370,000	4,800	970	620	12,000	---	<2500	---	---	---	---
GMW-8	11/21/96	---	---	---	---	---	<0.50	<0.50	<0.50	<1.5	12	<5	---	---	---	---
GMW-8	07/11/97	<100	---	<500	---	---	<0.50	<0.50	<0.50	<1	1.7	<5	---	---	---	---
GMW-8	01/02/98	<100	---	<500	---	---	<0.50	<0.50	<0.50	<1.5	5.0	<5	---	---	---	---
GMW-8	05/26/98	---	---	---	---	---	<0.30	<0.30	<0.50	<1	<0.50	<0.50	---	---	---	---
GMW-8	11/06/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	8.6	0.90	---	---	---	---
GMW-8	05/05/99	<500	---	<500	---	---	2.0	7.2	0.57	3.0	<1	<0.50	---	---	---	---
GMW-8	05/07/99	<500	---	<500	---	---	<0.50	1.7	<0.50	0.51	4.4	<0.50	---	---	---	---
GMW-8	11/16/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	4.6	<0.50	---	---	---	---
GMW-8	05/19/00	<300	---	---	---	380	<0.50	<0.50	<0.50	<0.50	15	<0.50	---	---	---	---
GMW-8	11/29/00	<300	---	---	---	780	1.0	0.90	<0.50	1.5	10	2.9	---	---	---	---
GMW-8	05/09/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-8	11/07/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-8	04/11/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	2.5	2.4	---	---	---	---
GMW-8	10/24/02	<300	---	---	---	120	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-8	04/10/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.62	---	---	---	---
GMW-8	10/08/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	0.52	<0.50	---	---	---	---
GMW-8	04/21/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-8	11/05/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-8	05/05/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-8	11/03/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-8	05/03/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.78	---	---	---	---
GMW-8	12/07/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	7.6	---	---	---	---
GMW-8	05/05/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	6.5	---	---	---	---
GMW-8	11/14/07	<50	---	---	---	130	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-8	04/17/08	<50	---	---	---	130	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-8	10/21/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-8	04/22/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-8	10/19/09	<50	---	---	---	120	<0.50	<0.50	<0.50	<0.50	<0.50	1.5	<10	<1	<1	<1
GMW-8	05/26/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-8	10/06/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-9	10/07/10	6,800	---	---	---	7,200	890	62	120	650	<10	56	1,600	44	<10	<10
GMW-9	04/13/11	54,000	---	---	---	21,000	20,000	290	970	3,800	<200	3,600	<2000	<200	<200	<200
GMW-9	10/13/11	61,000	---	---	---	7,600	18,000	6,500	760	3,400	<200	2,100	<2000	<200	<200	<200
GMW-O-1	11/21/96	---	---	---	---	---	<0.50	<0.50	<0.50	<1.5	0.53	<5	---	---	---	---
GMW-O-1	07/09/97	<100	---	<500	---	---	<0.50	<0.50	<0.50	<1	0.85	<5	---	---	---	---
GMW-O-1	01/06/98	<100	---	<500	---	---	<0.50	<0.50	<0.50	<1.5	<0.50	<5	---	---	---	---
GMW-O-1	05/20/98	<300	---	---	---	---	<0.50	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
GMW-O-1	08/24/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-1	11/04/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-1	02/02/99	<500	---	<500	---	---	<0.50	<0.50	<0.50	<1	<1	<0.50	---	---	---	---
GMW-O-1	08/10/99	<500	---	<1000	---	---	<0.50	<1	<1	<1	<0.50	<1	---	---	---	---
GMW-O-1	11/17/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-1	02/29/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-1	05/17/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-1	08/29/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	0.50	<0.50	---	---	---	---
GMW-O-1	11/28/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-1	02/05/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-1	05/10/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-1	09/19/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-1	11/06/01	<300	---	---	---	<100	11	<0.50	0.70	0.60	0.50	<0.50	---	---	---	---
GMW-O-1	01/30/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-1	04/09/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-1	07/30/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-1	10/24/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-1	01/28/03	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-1	04/08/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
GMW-O-1	07/30/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-1	10/08/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-1	01/29/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-1	04/20/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-1	07/20/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-1	11/04/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-1	02/03/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-1	05/04/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	<0.50	---	---	---
GMW-O-1	08/03/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-1	11/01/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-1	02/28/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-1	05/05/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-1	09/20/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-1	12/08/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-1	03/12/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-1	05/04/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-1	08/28/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-1	11/14/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-1	02/20/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-1	04/18/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-1	08/13/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-1	10/17/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-1	02/23/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	---	---	---
GMW-O-1	04/21/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-1	07/20/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-1	10/20/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-1	03/15/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-1	05/25/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-1	07/12/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-1	10/05/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-1	01/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-1	04/12/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-1	07/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-1	10/10/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-1	01/09/12	< 50	---	---	---	< 100	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-1	04/17/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-1	07/10/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-1	10/16/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-10	11/26/96	---	---	---	---	---	450	18	37	22	81	1,300	---	---	---	---
GMW-O-10	07/14/97	17,000	---	900	---	---	4,200	2,800	650	1,600	<30	890	---	---	---	---
GMW-O-10	01/09/98	25,000	---	12,000	---	---	3,900	2,800	510	1,470	<10	1,200	---	---	---	---
GMW-O-10	05/27/98	<300	---	---	---	---	1.0	<0.50	<0.50	0.80	<0.50	1.0	---	---	---	---
GMW-O-10	11/16/98	6,840	---	---	---	297	2,900	540	320	310	<13	2,000	---	---	---	---
GMW-O-10	05/07/99	<500	---	<500	---	---	6.2	<0.50	0.61	<0.50	<1	0.64	---	---	---	---
GMW-O-10	11/16/99	32,000	---	---	---	27,000	8,300	5,700	860	2,640	<25	2,600	---	---	---	---
GMW-O-10	05/17/00	18,000	---	---	---	32,000	4,500	3,300	450	1,420	<25	1,300	---	---	---	---
GMW-O-10	11/29/00	18,000	---	---	---	10,000	4,200	2,900	430	1,260	<25	1,400	---	---	---	---
GMW-O-10	05/10/01	7,900	---	---	---	4,600	2,400	810	150	280	<10	950	---	---	---	---
GMW-O-10	11/07/01	8,100	---	---	---	1,300	1,200	120	<10	540	<10	1,100	---	---	---	---
GMW-O-10	04/11/02	960	---	---	---	1,000	190	18	5.1	157	10	610	---	---	---	---
GMW-O-10	10/24/02	2,000	---	---	---	2,500	270	27	<5	60	<5	290	---	---	---	---
GMW-O-10	04/10/03	13,000	---	---	---	1,900	3,600	370	460	780	<50	520	---	---	---	---
GMW-O-10	08/01/03	5,800	---	---	---	1,600	2,600	220	320	460	20	580	---	---	---	---
GMW-O-10	10/08/03	4,900	---	---	---	940	1,500	240	160	275	24	460	---	---	---	---
GMW-O-10	04/21/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-10	11/04/04	8,900	---	---	---	1,200	3,900	85	400	409	<30	590	---	---	---	---
GMW-O-10	05/06/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-10	11/02/05	52	---	---	---	<100	19	0.50	<0.50	<0.50	1.0	10	---	---	---	---
GMW-O-10	05/05/06	12,000	---	---	---	850	4,100	1,800	380	640	<50	160	---	---	---	---
GMW-O-10	12/07/06	8,900	---	---	---	810	4,000	470	320	310	<50	190	---	---	---	---
GMW-O-10	05/04/07	3,800	---	---	---	260	1,600	10	<10	120	<20	160	---	---	---	---
GMW-O-10	11/14/07	12,000	---	---	---	600	5,100	54	340	325	<50	190	---	---	---	---
GMW-O-10	04/18/08	1,300	---	---	---	130	680	<5	14	11	<10	23	---	---	---	---
GMW-O-10	08/14/08	1,600	---	---	---	160	820	5.3	31	42	<10	<5	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
GMW-O-10	10/21/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.58	---	---	---	---
GMW-O-10	04/22/09	180	---	---	---	<100	37	<0.50	<0.50	<0.50	<0.50	1.2	<10	<1	<1	<1
GMW-O-10	10/22/09	99	---	---	---	<100	6.9	<0.50	<0.50	<0.50	<0.50	0.77	<10	<1	<1	<1
GMW-O-10	05/27/10	370	---	---	---	<100	77	1.2	<0.50	<0.50	<1	0.87	<10	<1	<1	<1
GMW-O-10	10/07/10	380	---	---	---	<100	42	1.2	0.51	<0.50	<0.50	0.79	<10	<1	<1	<1
GMW-O-10	04/13/11	270	---	---	---	140	39	1.0	<0.50	<0.50	<0.50	0.77	<10	<1	<1	<1
GMW-O-10	10/13/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-10	04/19/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-10 DUP	04/19/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-10	10/19/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-10 DUP	10/19/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-11	10/04/10	10,000	---	---	---	2,100	4,200	220	89	170	<30	160	560	32	<30	<30
GMW-O-12	10/05/10	23,000	---	---	---	<99000	12,000	<50	<50	<50	<100	71	<1000	<100	<100	<100
GMW-O-12	04/14/11	16,000	---	---	---	120,000	7,300	<25	<25	<25	<50	25	<500	<50	<50	<50
GMW-O-12	10/13/11	20,000	---	---	---	390,000	11,000	<100	<100	<100	<200	<100	<2000	<200	<200	<200
GMW-O-12	04/20/12	29,000	---	260,000	---	---	12,000	< 50	< 50	< 50	< 100	< 50	< 1000	< 100	< 100	< 100
GMW-O-12	10/19/12	12,000	---	120,000	---	---	4,700	< 25	< 25	< 25	< 50	< 25	< 500	< 50	< 50	< 50
GMW-O-14	11/27/96	88,000	---	74,000	---	---	4,500	3,200	520	2,600	440	<300	---	---	---	---
GMW-O-14	07/17/97	160,000	---	610,000	---	---	7,600	4,900	2,200	43,000	<500	<5000	---	---	---	---
GMW-O-14	01/09/98	33,000	---	780,000	---	---	7,200	4,500	510	2,300	<30	<300	---	---	---	---
GMW-O-14	05/27/98	3,500	---	---	---	---	330	<2.5	80	88	<2.5	<0.50	---	---	---	---
GMW-O-14	11/17/98	3,850	---	---	---	---	5,000	3,840	1,040	4,510	<100	<100	---	---	---	---
GMW-O-14	11/17/98	---	---	---	---	117,000	---	---	---	---	---	---	---	---	---	---
GMW-O-14	05/07/99	23,000	---	54,000	---	---	5,100	3,400	650	2,800	<50	<20	---	---	---	---
GMW-O-14	11/18/99	26,000	---	---	---	23,000	5,900	4,100	780	2,500	<50	<50	---	---	---	---
GMW-O-14	05/17/00	10,000	---	---	---	9,300	2,300	630	370	820	<50	<100	---	---	---	---
GMW-O-14	11/29/00	42,000	---	---	---	59,000	8,800	5,000	1,200	4,400	<50	<50	---	---	---	---
GMW-O-14	05/10/01	5,200	---	---	---	17,000	100	34	96	237	<1	<1	---	---	---	---
GMW-O-14	11/07/01	15,000	---	---	---	20,000	3,900	890	640	1,280	<1	<2	---	---	---	---
GMW-O-14	04/09/02	38,000	---	---	---	13,000	7,400	2,700	990	3,200	<13	24	---	---	---	---
GMW-O-14	07/30/02	11,000	---	---	---	24,000	4,900	2,300	550	1,890	<13	14	---	---	---	---
GMW-O-14	10/24/02	26,000	---	---	---	29,000	7,100	3,500	970	3,500	<25	<25	---	---	---	---
GMW-O-14	01/28/03	39,000	---	---	---	47,000	12,000	8,400	1,500	5,600	<25	38	---	---	---	---
GMW-O-14	03/12/03	1,500	---	---	---	710	760	72	66	115	<2.5	14	---	---	---	---
GMW-O-14	04/09/03	33,000	---	---	---	27,000	5,100	2,900	990	3,300	<40	<20	---	---	---	---
GMW-O-14	07/30/03	20,000	---	---	---	12,000	3,100	1,900	790	3,200	74	<15	---	---	---	---
GMW-O-14	10/09/03	43,000	---	---	---	18,000	8,700	4,200	1,300	5,300	180	<50	---	---	---	---
GMW-O-14	01/29/04	55,000	---	---	---	19,000	13,000	6,900	1,400	5,600	240	<50	---	---	---	---
GMW-O-14	04/20/04	54,000	---	---	---	32,000	11,000	5,700	1,500	6,100	170	<50	---	---	---	---
GMW-O-14	07/20/04	72,000	---	---	---	18,000	13,000	8,200	1,700	7,400	200	<50	---	---	---	---
GMW-O-14	11/04/04	41,000	---	---	---	23,000	9,000	7,000	1,300	5,500	<200	<100	---	---	---	---
GMW-O-14	02/03/05	34,000	---	---	---	4,600	8,600	2,300	950	3,100	69	34	---	---	---	---
GMW-O-14	05/04/05	420	---	---	---	680	11	1.6	18	19	6.5	<0.50	---	---	---	---
GMW-O-14	08/03/05	15,000	---	---	---	11,000	160	600	290	1,840	<10	<5	---	---	---	---
GMW-O-14	11/02/05	14,000	---	---	---	14,000	320	350	160	2,690	<40	<20	---	---	---	---
GMW-O-14	02/28/06	8,200	---	---	---	12,000	860	87	18	1,020	15	<5	---	---	---	---
GMW-O-14	05/05/06	6,700	---	---	---	9,600	1,500	77	<10	450	35	<10	---	---	---	---
GMW-O-14	09/20/06	6,900	---	---	---	4,200	1,400	250	39	640	30	<10	---	---	---	---
GMW-O-14	12/07/06	9,000	---	---	---	17,000	1,400	150	27	501	36	<10	---	---	---	---
GMW-O-14	03/12/07	4,700	---	---	---	1,300	1,000	180	26	400	23	<5	---	---	---	---
GMW-O-14	05/04/07	8,200	---	---	---	3,300	1,700	330	48	570	44	<10	---	---	---	---
GMW-O-14	08/28/07	12,000	---	---	---	6,200	75	110	200	1,000	<5	<2.5	---	---	---	---
GMW-O-14	11/15/07	16,000	---	---	---	74,000	320	300	520	2,470	<20	<10	---	---	---	---
GMW-O-14	02/20/08	35,000	---	---	---	7,700	7,900	1,900	1,200	3,400	<100	<50	---	---	---	---
GMW-O-14	04/15/08	26,000	---	---	---	31,000	4,900	1,800	840	2,800	59	<25	---	---	---	---
GMW-O-14	08/14/08	25,000	---	---	---	44,000	4,300	1,100	730	2,800	70	<25	---	---	---	---
GMW-O-14	10/16/08	21,000	---	---	---	12,000	3,200	940	500	3,000	<30	<15	---	---	---	---
GMW-O-14	02/23/09	30,000	---	---	---	12,000	6,100	3,500	1,200	3,900	77	<25	<500	---	---	---
GMW-O-14	04/22/09	36,000	---	---	---	8,300	9,300	2,300	1,300	3,500	120	<50	<1000	170	<100	<100
GMW-O-14	07/22/09	32,000	---	---	---	12,000	7,800	1,900	1,500	4,100	86	<25	<500	130	<50	<50
GMW-O-14	10/23/09	40,000	---	---	---	21,000	14,000	1,900	1,500	3,500	<200	<100	<2000	<200	<200	<200
GMW-O-14	03/16/10	57,000	---	---	---	24,000	14,000	6,200	1,700	4,700	<200	<100	<2000	310	<200	<200
GMW-O-14	05/28/10	26,000	---	---	---	7,400	7,900	1,500	370	2,180	110	<25	<500	180	<50	<50
GMW-O-14	07/14/10	22,000	---	---	---	6,700	7,900	420	77	1,500	100	<50	<1000	130	<100	<100

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
GMW-O-14	10/07/10	16,000	---	---	---	3,200	5,900	200	220	680	<100	<50	<1000	<100	<100	<100
GMW-O-14	01/11/11	49,000	---	---	---	11,000	12,000	5,500	1,400	2,700	120	<50	<1000	190	<100	<100
GMW-O-14	04/13/11	26,000	---	---	---	9,800	8,200	470	680	2,300	<100	<50	<1000	160	<100	<100
GMW-O-14	07/12/11	12,000	---	---	---	5,500	3,800	50	<25	1,800	<50	<25	<500	<50	<50	<50
GMW-O-14	10/12/11	16,000	---	---	---	3,400	4,000	55	<25	2,500	<50	<25	<500	<50	<50	<50
GMW-O-14	01/09/12	38,000	---	---	---	11,000	9,000	2,200	1,200	4,300	<200	<100	<2000	<200	<200	<200
GMW-O-14 DUP	01/09/12	38,000	---	---	---	16,000	8,800	2,100	1,200	4,200	<200	<100	<2000	<200	<200	<200
GMW-O-14	04/20/12	47,000	---	2,500	---	---	11,000	1,100	1,500	5,000	<100	<50	<1000	170	<100	<100
GMW-O-14 DUP	04/20/12	45,000	---	2,400	---	---	10,000	1,000	1,400	4,800	<100	<50	<1000	160	<100	<100
GMW-O-14	07/10/12	48,000	---	390	---	---	12,000	3,500	1,200	3,700	<100	<50	<1000	270	<100	<100
GMW-O-14 DUP	07/10/12	46,000	---	1,300	---	---	12,000	3,400	1,200	3,700	<100	<50	<1000	270	<100	<100
GMW-O-14	10/18/12	15,000	---	2,700	---	---	2,600	1,100	520	1,800	<50	<25	<500	70	<50	<50
GMW-O-14 DUP	10/18/12	18,000	---	2,800	---	---	2,700	1,300	700	2,400	<50	<25	<500	<50	<50	<50
GMW-O-15	10/16/08	1,700	---	---	---	2,800	550	3.0	37	34	<5	110	---	---	---	---
GMW-O-15	03/16/10	530	---	---	---	8,900	10	1.1	0.64	2.7	<0.50	400	<10	<1	<1	1.9
GMW-O-15	04/16/10	6,700	---	---	---	62,000	1,700	54	120	176	<10	1,300	1,800	<10	<10	11
GMW-O-15	05/25/10	650	---	---	---	5,600	82	16	8.4	44	<2	180	1,500	<2	<2	<2
GMW-O-15	07/13/10	580	---	---	---	250	110	7.5	11	27	<1	300	5,100	<1	<1	1.5
GMW-O-15	08/12/10	710	---	---	---	370	120	4.1	10	34	<1	260	5,300	<1	<1	1.5
GMW-O-15	09/20/10	620	---	---	---	500	120	3.3	13	24	<1	230	6,000	<1	<1	1.4
GMW-O-15	10/05/10	14,000	---	---	---	6,000	1,800	280	92	760	<20	3,200	3,000	<20	<20	35
GMW-O-15	12/22/10	28,000	---	---	---	19,000	3,900	610	850	3,000	<40	1,900	1,300	<40	<40	<40
GMW-O-15	01/12/11	12,000	---	---	---	15,000	1,300	49	280	700	<20	430	12,000	<20	<20	<20
GMW-O-15	02/24/11	12,000	---	---	---	10,000	700	450	310	1,300	<10	970	4,100	<10	<10	20
GMW-O-15	03/23/11	2,400	---	---	---	4,300	210	47	39	190	<2	310	3,600	<2	<2	5.2
GMW-O-15	04/29/11	1,200	---	---	---	1,500	250	27	27	154	<2	350	3,900	<2	<2	2.4
GMW-O-15	05/13/11	1,300	---	---	---	1,600	200	18	22	127	<2	350	6,600	<2	<2	3.6
GMW-O-15	06/22/11	1,800	---	---	---	1,200	190	95	34	220	<1	310	6,800	<1	<1	1.8
GMW-O-15	07/12/11	1,000	---	---	---	970	150	17	14	97	<2	220	6,400	<2	<2	<2
GMW-O-15	08/19/11	33,000	---	---	---	550,000	820	2,200	610	4,400	<50	290	9,200	<50	<50	<50
GMW-O-15	09/22/11	3,400	---	---	---	1,000	480	290	58	320	<5	640	6,800	<5	<5	10
GMW-O-15	10/13/11	3,900	---	---	---	1,600	530	290	73	460	<10	220	3,200	<10	<10	<10
GMW-O-15	12/21/11	520	---	---	---	570	110	1.5	5.7	22	<2	79	5,300	<2	<2	<2
GMW-O-15	01/10/12	470	---	---	---	1,200	110	1.3	6.9	15	<1	86	4,300	<1	<1	1.2
GMW-O-15	02/23/12	4,800	---	---	---	6,900	340	390	85	600	<5	110	4,000	<5	<5	17
GMW-O-15	03/28/12	1,300	---	120	---	---	230	68	13	110	<2	99	4,600	<2	<2	<2
GMW-O-15	04/27/12	2,100	---	1,300	---	---	180	67	16	160	<1	49	4,300	<1	<1	1.0
GMW-O-15	05/25/12	110,000	---	24,000	---	---	320	270	420	3,400	<100	190	<1000	<100	<100	100
GMW-O-15	07/11/12	17,000	---	13,000	---	---	6,700	63	120	270	<100	1,500	1,600	<100	<100	<100
GMW-O-15	08/29/12	190	---	89	---	---	73	1.2	3.3	8.1	<0.5	22	5,300	<1	<1	<1
GMW-O-15	09/26/12	220	---	<50	---	---	53	0.74	3.7	7.3	<0.5	17	2,900	<1	<1	<1
GMW-O-15	10/18/12	210	---	140	---	---	50	<0.5	3.3	5.9	<1	13	2,600	<1	<1	<1
GMW-O-16	11/27/96	---	---	---	---	---	570	67	14	360	<5	120	---	---	---	---
GMW-O-16	07/17/97	<100	---	<500	---	---	<0.50	<0.50	<0.50	<1	<0.50	310	---	---	---	---
GMW-O-16	01/06/98	<100	---	<500	---	---	<0.50	<0.50	<0.50	<1.5	<0.50	<5	---	---	---	---
GMW-O-16	05/20/98	<300	---	---	---	---	<0.50	<0.50	<0.50	<1	<0.50	76	---	---	---	---
GMW-O-16	11/13/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.70	---	---	---	---
GMW-O-16	05/07/99	<500	---	<500	---	---	0.66	<0.50	<0.50	0.72	<1	7.6	---	---	---	---
GMW-O-16	11/18/99	<416	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-16	05/17/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.80	---	---	---	---
GMW-O-16	11/30/00	<300	---	---	---	<100	0.80	<0.50	<0.50	<0.50	<0.50	0.60	---	---	---	---
GMW-O-16	05/10/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-16	04/10/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-16	10/22/02	<300	---	---	---	<100	1.6	0.98	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-16	04/09/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-16	10/07/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-16	04/22/04	<50	---	---	---	3,600	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-16	07/20/04	---	---	---	---	<100	---	---	---	---	---	---	---	---	---	---
GMW-O-16	11/02/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-16	05/05/05	92	---	---	---	<100	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	110	---	---	---
GMW-O-16	08/02/05	57	---	---	---	<100	1.3	<0.50	<0.50	<0.50	<0.50	<0.50	93	---	---	---
GMW-O-16	11/02/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	57	---	---	---
GMW-O-16	02/28/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	5.3	---	---	---
GMW-O-16	05/04/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6.3	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
GMW-O-16	09/19/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.57	---	---	---	---
GMW-O-16	12/05/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-16	05/05/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-16	11/14/07	<50	---	---	---	1,400	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-16	02/07/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.68	---	---	---	---
GMW-O-16	04/16/08	<50	---	---	---	<100	<0.50	1.2	0.59	5.5	<0.50	0.63	---	---	---	---
GMW-O-16	10/14/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	0.60	<0.50	0.65	---	---	---	---
GMW-O-16	04/23/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.55	<10	<1	<1	<1
GMW-O-16	10/21/09	<50	---	---	---	250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-16	03/16/10	<50	---	---	---	140	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-16	04/16/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-16	05/26/10	<50	---	---	---	120	<0.50	<0.50	<0.50	<0.50	<0.50	0.88	<10	<1	<1	<1
GMW-O-16	07/13/10	<50	---	---	---	<100	0.73	<0.50	<0.50	<0.50	<0.50	1.9	<10	<1	<1	<1
GMW-O-16	08/12/10	<50	---	---	---	<100	0.50	<0.50	<0.50	<0.50	<0.50	2.3	<10	<1	<1	<1
GMW-O-16	09/20/10	<50	---	---	---	170	0.69	<0.50	<0.50	<0.50	<0.50	3.1	<10	<1	<1	<1
GMW-O-16	10/06/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	<10	<1	<1	<1
GMW-O-16	11/16/10	<50	---	---	---	160	<0.50	<0.50	<0.50	<0.50	<0.50	4.0	<10	<1	<1	<1
GMW-O-16	12/22/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	2.0	<10	<1	<1	<1
GMW-O-16	01/11/11	<50	---	---	---	<100	0.52	<0.50	<0.50	<0.50	<0.50	0.94	<10	<1	<1	<1
GMW-O-16	02/24/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.67	<10	<1	<1	<1
GMW-O-16	03/23/11	<50	---	---	---	100	<0.50	<0.50	<0.50	<0.50	<0.50	1.6	<10	<1	<1	<1
GMW-O-16	04/12/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	<10	<1	<1	<1
GMW-O-16	05/13/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.8	<10	<1	<1	<1
GMW-O-16	06/22/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.9	<10	<1	<1	<1
GMW-O-16	07/12/11	<50	---	---	---	120	<0.50	<0.50	<0.50	<0.50	<0.50	1.8	<10	<1	<1	<1
GMW-O-16	08/19/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.5	<10	<1	<1	<1
GMW-O-16	09/22/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	2.9	<10	<1	<1	<1
GMW-O-16	10/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	<10	<1	<1	<1
GMW-O-16	11/28/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	<10	<1	<1	<1
GMW-O-16	12/21/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	0.50	<0.50	1.8	<10	<1	<1	<1
GMW-O-16	01/09/12	< 50	---	---	---	< 100	< 0.5	< 0.5	< 0.5	1.4	< 0.5	3.4	< 10	< 1	< 1	< 1
GMW-O-16	02/23/12	< 50	---	---	---	< 100	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.3	< 10	< 1	< 1	< 1
GMW-O-16	03/28/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.0	< 10	< 1	< 1	< 1
GMW-O-16	04/18/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.79	< 10	< 1	< 1	< 1
GMW-O-16	05/25/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-16	06/15/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-16	07/10/12	< 50	---	< 50	---	---	2.5	1.1	< 0.5	0.70	< 0.5	0.57	< 10	< 1	< 1	< 1
GMW-O-16	08/29/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-16	09/26/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-16	10/17/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	0.89	< 0.5	0.70	< 10	< 1	< 1	< 1
GMW-O-17	11/22/96	---	---	---	---	---	<0.50	<0.50	<0.50	<1.5	<0.50	<5	---	---	---	---
GMW-O-17	07/10/97	<100	---	<500	---	---	<0.50	<0.50	<0.50	<1	<0.50	<5	---	---	---	---
GMW-O-17	01/07/98	<100	---	<500	---	---	<0.50	0.64	<0.50	<1.5	<0.50	<5	---	---	---	---
GMW-O-17	05/21/98	<300	---	---	---	---	<0.50	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
GMW-O-17	11/04/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-17	05/05/99	<500	---	<500	---	---	0.64	<0.50	<0.50	<0.50	<1	0.58	---	---	---	---
GMW-O-17	11/16/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-17	05/17/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-17	11/29/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-17	05/10/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-17	11/07/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-17	04/09/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-17	10/24/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-17	10/09/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-17	05/04/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-17	05/05/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-17	05/03/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-17	04/18/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-17	04/22/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-17	05/25/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-17	04/13/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-17	04/18/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-17	10/16/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-18	11/26/96	---	---	---	---	---	<10	<10	<10	<30	<10	10,000	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
GMW-O-18	07/11/97	<100	---	<500	---	---	<3	<3	<3	<3	<3	3,000	---	---	---	---
GMW-O-18	01/07/98	<100	---	<500	---	---	<5	<5	<5	<15	<5	3,200	---	---	---	---
GMW-O-18	05/21/98	2,000	---	---	---	---	<100	<100	<100	<200	<100	5,600	---	---	---	---
GMW-O-18	11/17/98	543	---	---	---	<100	<0.50	1.0	<0.50	2.6	<0.50	1,420	---	---	---	---
GMW-O-18	05/06/99	2,700	---	<500	---	---	<5	<5	<5	<5	<13	15,000	---	---	---	---
GMW-O-18	11/18/99	2,900	---	---	---	<100	<13	<12.5	<12.5	<12.5	<13	6,700	---	---	---	---
GMW-O-18	05/19/00	3,500	---	---	---	<100	<25	<25	<25	<25	<25	10,000	---	---	---	---
GMW-O-18	11/02/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.4	---	---	---	---
GMW-O-18	05/09/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	2.1	---	---	---	---
GMW-O-18	12/07/06	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<1	0.65	---	---	---	---
GMW-O-18	05/04/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.62	---	---	---	---
GMW-O-18	11/15/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.6	---	---	---	---
GMW-O-18	04/15/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-18	10/15/08	<200	---	---	---	<100	<1	<1	<1	<1	<2	<1	---	---	---	---
GMW-O-18	04/23/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.0	140	<1	<1	<1
GMW-O-18	10/21/09	2,400	---	---	---	680	170	440	17	410	<5	490	480	<5	<5	<5
GMW-O-18	03/16/10	<50	---	---	---	<100	0.60	1.3	<0.50	1.8	<0.50	4.5	550	<1	<1	<1
GMW-O-18	04/16/10	1,300	---	---	---	6,600	0.67	<0.50	3.1	13	<0.50	1.2	2,400	<1	<1	<1
GMW-O-18	05/25/10	110	---	---	---	540	<0.50	<0.50	<0.50	<0.50	<1	2.9	6,500	<1	<1	<1
GMW-O-18	07/14/10	110	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.85	11,000	<1	<1	<1
GMW-O-18	08/12/10	220	---	---	---	<100	0.64	<0.50	<0.50	<0.50	<1	0.93	15,000	<1	<1	<1
GMW-O-18	09/20/10	290	---	---	---	<100	1.1	<0.50	<0.50	0.55	<1	1.2	23,000	<1	<1	<1
GMW-O-18	10/05/10	4,000	---	---	---	<1100	1,200	420	23	91	<10	670	2,600	<10	<10	<10
GMW-O-18	11/16/10	2,000	---	---	---	120	<0.50	<0.50	<0.50	<0.50	<1	0.53	21,000	<1	<1	<1
GMW-O-18	01/12/11	<3000	---	---	---	130	<1	<1	<1	<1	<2	<1	29,000	<2	<2	<2
GMW-O-18	02/24/11	1,400	---	---	---	2,100	60	31	19	85	<0.50	380	1,600	<1	<1	3.9
GMW-O-18	03/23/11	110	---	---	---	230	6.0	1.4	1.1	6.3	<0.50	2.9	3,300	<1	<1	<1
GMW-O-18	04/29/11	<50	---	---	---	120	3.7	<0.50	<0.50	1.7	<0.50	7.5	780	<1	<1	<1
GMW-O-18	05/13/11	<100	---	---	---	230	<0.50	<0.50	<0.50	<0.50	<1	<0.50	<10	<1	<1	<1
GMW-O-18	06/22/11	7,500	---	---	---	37,000	<0.50	<0.50	<0.50	440	<1	5.5	3,200	<1	<1	<1
GMW-O-18	08/19/11	2,600	---	---	---	12,000	17	3.9	3.2	40	<2	85	61	<2	<2	<2
GMW-O-18	09/22/11	34,000	---	---	---	64,000	700	110	690	5,300	<50	400	6,100	<50	<50	54
GMW-O-18	10/14/11	6,000	---	---	---	36,000	190	13	36	100	<20	1,600	6,600	<20	<20	26
GMW-O-18	11/23/11	25,000	---	---	---	150,000	65	<10	51	<10	<20	310	6,000	<20	<20	22
GMW-O-18	12/21/11	190	---	---	---	26,000	<0.50	<0.50	<0.50	0.53	<0.50	70	1,600	<1	<1	<1
GMW-O-18	01/10/12	570	---	---	---	1,400	100	< 0.5	5.3	3.9	< 1	110	4,800	< 1	< 1	2.2
GMW-O-18 DUP	01/10/12	530	---	---	---	1,800	100	< 0.5	5.6	5.4	< 1	110	4,900	< 1	< 1	1.8
GMW-O-18	02/23/12	180	---	---	---	140	8.8	6.8	0.84	7.8	< 0.5	5.9	9,200	< 1	< 1	< 1
GMW-O-18	03/28/12	140	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	10,000	< 1	< 1	< 1
GMW-O-18	05/25/12	< 100	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	7,700	< 1	< 1	< 1
GMW-O-18	06/15/12	180	---	50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 1	0.60	17,000	< 1	< 1	< 1
GMW-O-18	07/11/12	180	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	14,000	< 1	< 1	< 1
GMW-O-18	08/30/12	71	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	14,000	< 1	< 1	< 1
GMW-O-18	09/26/12	55	---	< 100	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	8,900	< 1	< 1	< 1
GMW-O-18	10/30/12	110	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	11,000	< 1	< 1	< 1
GMW-O-19	11/25/96	---	---	---	---	---	<0.50	<0.87	2.8	5.1	<0.50	<5	---	---	---	---
GMW-O-19	07/16/97	<100	---	<500	---	---	<0.50	<0.50	<0.50	<1	<0.50	<5	---	---	---	---
GMW-O-19	01/06/98	<100	---	<500	---	---	<0.50	<0.50	<0.50	<1.5	<0.50	<5	---	---	---	---
GMW-O-19	05/20/98	<300	---	---	---	---	<0.50	<0.50	<0.50	<1	<0.50	2.0	---	---	---	---
GMW-O-19	11/12/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-19	05/06/99	<500	---	<500	---	---	<0.50	<0.50	<0.50	<0.50	<1	0.51	---	---	---	---
GMW-O-19	11/18/99	<416	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	---	---	---	---
GMW-O-19	05/17/00	<300	---	---	---	180	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-19	09/19/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-19	11/07/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-19	01/30/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-19	04/09/03	<50	---	---	---	500	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-19	08/01/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-19	10/07/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-19	04/22/04	<50	---	---	---	1,400	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-19	07/20/04	---	---	---	---	<100	---	---	---	---	---	---	---	---	---	---
GMW-O-19	11/02/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-19	05/05/05	510	---	---	---	110	110	<0.50	17	25	<1	150	---	---	---	---
GMW-O-19	08/02/05	160	---	---	---	<100	2.1	<0.50	1.2	<0.50	<0.50	19	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
GMW-O-19	11/02/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-19	02/28/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-19	05/04/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-19	12/05/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-19	05/05/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-19	11/15/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-19	04/16/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-19	10/14/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-19	04/23/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	10/20/09	<50	---	---	---	<200	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	03/15/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	04/16/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	05/26/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	07/13/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	08/12/10	<50	---	---	---	<100	0.52	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	09/20/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	10/06/10	<50	---	---	---	340	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	11/16/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	12/22/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	01/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	02/24/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	03/23/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	04/12/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	05/13/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	06/22/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	07/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	08/19/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	09/22/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	10/11/11	<50	---	---	---	110	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	11/28/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	12/21/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-19	01/10/12	< 50	---	---	---	< 100	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-19	02/23/12	< 50	---	---	---	< 100	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-19	03/28/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-19	04/17/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-19	05/25/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-19	06/15/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-19	07/10/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-19	08/29/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-19	09/26/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-19	10/16/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-2	11/21/96	---	---	---	---	---	<0.50	<0.50	<0.50	<1.5	12	<5	---	---	---	---
GMW-O-2	07/09/97	<100	---	<500	---	---	<0.50	0.50	<0.50	<1	<0.50	<5	---	---	---	---
GMW-O-2	01/07/98	<100	---	<500	---	---	<0.50	<0.50	<0.50	<1.5	13	<5	---	---	---	---
GMW-O-2	05/20/98	<300	---	---	---	---	<0.50	<0.50	<0.50	<1	14	<0.50	---	---	---	---
GMW-O-2	11/11/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-2	05/05/99	<500	---	<500	---	---	<0.50	<0.50	<0.50	<0.50	<1	<0.50	---	---	---	---
GMW-O-2	11/16/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-2	05/17/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	1.7	<0.50	---	---	---	---
GMW-O-2	11/28/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	0.60	<0.50	---	---	---	---
GMW-O-2	05/10/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	11	<0.50	---	---	---	---
GMW-O-2	11/06/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	0.60	<0.50	---	---	---	---
GMW-O-2	04/09/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-2	07/30/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-2	10/24/02	<300	---	---	---	460	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-2	01/15/03	<300	---	---	---	<100	---	---	---	---	---	---	---	---	---	---
GMW-O-2	01/28/03	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	4.1	<0.50	---	---	---	---
GMW-O-2	04/08/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	1.0	<0.50	---	---	---	---
GMW-O-2	07/30/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-2	10/08/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-2	01/29/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-2	04/20/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-2	07/20/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-2	11/04/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---

**TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012**

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
GMW-O-2	02/03/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-2	05/04/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	5.0	<0.50	---	---	---	---
GMW-O-2	08/03/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-2	11/01/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-2	02/28/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-2	05/05/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-2	09/20/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-2	12/08/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-2	03/12/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-2	05/03/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-2	08/28/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-2	11/14/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-2	02/20/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-2	04/18/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-2	08/13/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-2	10/16/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-2	02/23/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	---	---	---
GMW-O-2	04/22/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-2	07/21/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-2	10/20/09	<50	---	---	---	130	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-2	03/16/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-2	05/25/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-2	07/13/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-2	10/05/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-2	01/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-2	04/12/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-2	07/12/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-2	10/10/11	<50	---	---	---	140	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-2	01/09/12	< 50	---	---	---	< 100	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-2	04/17/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-2	07/10/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-2	10/16/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-20	10/05/10	46,000	---	---	---	<150000	17,000	390	680	2,700	<200	<100	<2000	<200	<200	<200
GMW-O-20	04/13/11	42,000	---	---	---	680,000	12,000	170	580	400	<200	<100	<2000	<200	<200	<200
GMW-O-20	10/13/11	34,000	---	---	---	2,000,000	6,300	460	240	850	<100	<50	<1000	<100	<100	<100
GMW-O-20	04/20/12	48,000	---	230,000	---	---	11,000	520	350	2,500	< 100	< 50	< 1000	< 100	< 100	< 100
GMW-O-20	10/19/12	36,000	---	340,000	---	---	6,100	1,000	360	2,700	< 50	< 25	< 500	< 50	< 50	< 50
GMW-O-21	10/07/03	47,000	---	---	---	20,000	15,000	5,200	500	3,160	<100	5,200	---	---	---	---
GMW-O-21	10/08/10	66,000	---	---	---	8,000	19,000	8,200	1,200	3,800	<200	<100	<2000	<200	<200	<200
GMW-O-21	04/29/11	18,000	---	---	---	5,300	7,400	2,400	190	1,940	<50	95	<500	86	<50	<50
GMW-O-21	10/14/11	31,000	---	---	---	6,400	8,300	4,100	290	2,400	<100	51	<1000	<100	<100	<100
GMW-O-21	04/19/12	32,000	---	1,200	---	---	11,000	4,400	230	3,000	< 100	< 50	< 1000	< 100	< 100	< 100
GMW-O-21	10/19/12	1,200	---	880	---	---	370	71	4.8	66	< 2	3.2	96	8.7	< 2	< 2
GMW-O-23	10/08/10	120,000	---	---	---	25,000	22,000	21,000	1,800	8,100	<200	2,600	<2000	<200	<200	<200
GMW-O-23	04/13/11	75,000	---	---	---	12,000	15,000	13,000	850	5,800	<200	1,700	<2000	<200	<200	<200
GMW-O-23	10/13/11	65,000	---	---	---	7,200	16,000	11,000	540	3,800	<200	1,500	<2000	<200	<200	<200
GMW-O-23	10/19/12	29,000	---	31,000	---	---	7,000	5,000	130	1,900	< 100	400	< 1000	< 100	< 100	< 100
GMW-O-24	10/16/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.99	< 10	< 1	< 1	< 1
GMW-O-3	11/27/96	---	---	---	---	---	2,900	1,000	1,200	1,950	<10	260	---	---	---	---
GMW-O-3	07/14/97	14,000	---	1,300	---	---	1,500	410	700	1,200	<10	<100	---	---	---	---
GMW-O-3	01/09/98	3,200	---	720	---	---	930	55	390	599	38	<50	---	---	---	---
GMW-O-3	05/26/98	5,400	---	---	---	---	850	20	170	140	<5	<5	---	---	---	---
GMW-O-3	08/26/98	3,290	---	---	---	1,710	329	31	140	300	<2.5	<2.5	---	---	---	---
GMW-O-3	11/17/98	4,800	---	---	---	5,810	1,500	<100	350	400	<100	<100	---	---	---	---
GMW-O-3	02/03/99	3,800	---	<500	---	---	250	<2.5	34	17	<5	<2.5	---	---	---	---
GMW-O-3	05/07/99	2,900	---	<500	---	---	170	1.2	3.4	5.3	<1	<0.50	---	---	---	---
GMW-O-3	08/10/99	<500	---	<1000	---	---	56	1.6	2.3	<1	1.2	<1	---	---	---	---
GMW-O-3	11/17/99	340	---	---	---	<100	15	0.50	1.9	1.9	<0.50	<0.50	---	---	---	---
GMW-O-3	02/29/00	<300	---	---	---	170	12	<0.50	1.2	1.1	<0.50	<0.50	---	---	---	---
GMW-O-3	05/17/00	1,800	---	---	---	1,000	290	32	33	180	<0.50	<0.50	---	---	---	---
GMW-O-3	08/29/00	580	---	---	---	3,600	130	2.5	13	23	<0.50	<0.50	---	---	---	---
GMW-O-3	11/28/00	1,500	---	---	---	820	350	13	43	93	<0.50	<0.50	---	---	---	---
GMW-O-3	02/05/01	1,800	---	---	---	770	420	26	40	55	<10	<10	---	---	---	---
GMW-O-3	05/10/01	2,000	---	---	---	560	380	4.5	32	42	<2.5	<2.5	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
GMW-O-3	09/19/01	840	---	---	---	360	230	<2.5	17	11	<2.5	<2.5	---	---	---	---
GMW-O-3	11/07/01	520	---	---	---	<100	120	<2.5	7.2	6.0	<2.5	<2.5	---	---	---	---
GMW-O-3	01/30/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-3	04/09/02	1,200	---	---	---	<100	260	2.6	13	9.8	<0.50	<0.50	---	---	---	---
GMW-O-3	07/30/02	380	---	---	---	250	150	1.6	5.1	4.6	<0.50	<0.50	---	---	---	---
GMW-O-3	10/24/02	310	---	---	---	120	79	0.65	1.9	1.2	<0.50	<0.50	---	---	---	---
GMW-O-3	01/15/03	<300	---	---	---	<100	---	---	---	---	---	---	---	---	---	---
GMW-O-3	01/28/03	550	---	---	---	160	140	3.0	9.1	14	<0.50	<0.50	---	---	---	---
GMW-O-3	04/08/03	660	---	---	---	200	170	1.6	9.2	<1	<2	<1	---	---	---	---
GMW-O-3	07/30/03	830	---	---	---	140	200	2.0	18	8.2	<3	<1.5	---	---	---	---
GMW-O-3	10/08/03	660	---	---	---	280	96	0.74	9.6	1.4	<1	<0.50	---	---	---	---
GMW-O-3	01/29/04	850	---	---	---	160	120	0.63	3.0	0.72	<1	<0.50	---	---	---	---
GMW-O-3	04/20/04	<50	---	---	---	130	65	<0.50	<0.50	0.56	<0.50	<0.50	---	---	---	---
GMW-O-3	07/20/04	370	---	---	---	<100	29	<0.50	1.4	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-3	11/04/04	850	---	---	---	190	71	<0.50	2.7	<0.50	<1	<0.50	---	---	---	---
GMW-O-3	02/03/05	210	---	---	---	<100	16	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-3	05/04/05	380	---	---	---	<100	32	0.67	2.1	4.6	<0.50	<0.50	---	---	---	---
GMW-O-3	08/03/05	1,000	---	---	---	490	4.4	1.1	110	<1	<2	<1	---	---	---	---
GMW-O-3	11/01/05	1,300	---	---	---	560	35	2.3	67	50	<1	<0.50	---	---	---	---
GMW-O-3	02/28/06	640	---	---	---	320	26	<0.50	7.1	6.0	<0.50	<0.50	---	---	---	---
GMW-O-3	05/04/06	400	---	---	---	250	19	<0.50	0.71	1.2	<0.50	<0.50	---	---	---	---
GMW-O-3	09/19/06	110	---	---	---	<100	0.71	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-3	12/08/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-3	03/13/07	51	---	---	---	<100	<0.50	<0.50	1.1	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-3	05/03/07	72	---	---	---	<100	<0.50	<0.50	0.64	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-3	08/28/07	65	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-3	11/14/07	170	---	---	---	<100	3.1	<0.50	9.7	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-3	02/07/08	96	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-3	04/15/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-3	08/14/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-3	10/16/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-3	02/23/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	---	---	---
GMW-O-3	04/21/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-3	07/21/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-3	10/20/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-3	03/15/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-3	05/25/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-3	07/12/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-3	10/05/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-3	01/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-3	04/12/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-3	07/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-3	10/10/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-3	01/09/12	< 50	---	---	---	120	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-3	04/17/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-3	07/10/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-3	10/16/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-4	11/22/96	---	---	---	---	---	<0.50	<0.50	<0.50	<1.5	<0.50	<5	---	---	---	---
GMW-O-4	07/09/97	<100	---	<500	---	---	<0.50	1.9	<0.50	<1	<0.50	<5	---	---	---	---
GMW-O-4	01/02/98	<100	---	<500	---	---	<0.50	<0.50	<0.50	<1.5	<0.50	<5	---	---	---	---
GMW-O-4	05/21/98	---	---	---	---	---	<0.50	<0.50	<0.50	<1	<0.50	0.70	---	---	---	---
GMW-O-4	11/12/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4	05/06/99	<500	---	<500	---	---	<0.50	<0.50	<0.50	<0.50	<1	<0.50	---	---	---	---
GMW-O-4	11/16/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4	11/17/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4	05/17/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4	11/29/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4	05/10/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4	11/07/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4	04/09/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4	10/24/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4	04/09/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4	10/08/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4	04/20/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
GMW-O-4	11/04/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4	05/04/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4	11/01/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4	05/04/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4	12/07/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4	05/03/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4	11/15/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4	04/15/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4	10/15/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4	04/21/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-4	10/20/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-4	05/25/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-4	10/05/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-4	04/12/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-4	10/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-4	04/17/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-4	10/16/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-4 MID	11/22/96	---	---	---	---	---	<0.50	<0.50	<0.50	<1.5	<0.50	<5	---	---	---	---
GMW-O-4 MID	07/09/97	<100	---	<500	---	---	<0.50	0.99	<0.50	<0.10	<0.50	<5	---	---	---	---
GMW-O-4 MID	01/02/98	<100	---	<500	---	---	<0.50	<0.50	<0.50	<1.5	<0.50	<5	---	---	---	---
GMW-O-4 MID	05/21/98	<300	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GMW-O-4 MID	11/04/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4 MID	05/06/99	---	---	---	---	---	---	---	---	---	---	<0.50	---	---	---	---
GMW-O-4 MID	05/06/99	<500	---	<500	---	---	---	---	---	---	<1	---	---	---	---	---
GMW-O-4 MID	05/17/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4 MID	11/28/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4 MID	05/10/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4 MID	11/07/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4 MID	04/09/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4 MID	10/24/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4 MID	04/09/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4 MID	10/08/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4 MID	04/20/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4 MID	11/04/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4 MID	05/04/05	<50	---	---	---	220	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4 MID	11/01/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4 MID	05/04/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4 MID	12/07/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4 MID	05/03/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4 MID	11/15/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4 MID	04/15/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4 MID	10/15/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-4 MID	04/21/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-4 MID	10/20/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-4 MID	05/25/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-4 MID	10/05/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-4 MID	04/12/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-4 MID	10/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-4 MID	04/17/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-4 MID	10/16/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-5	11/22/96	---	---	---	---	---	11	5.7	9.2	32	<0.50	<5	---	---	---	---
GMW-O-5	07/09/97	<100	---	<500	---	---	<0.50	1.9	<0.50	<1	<0.50	<5	---	---	---	---
GMW-O-5	01/07/98	<100	---	<500	---	---	<0.50	<0.50	<0.50	<1.5	<0.50	15	---	---	---	---
GMW-O-5	05/21/98	---	---	---	---	---	<0.50	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
GMW-O-5	08/24/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-5	11/04/98	---	---	---	---	<100	---	---	---	---	---	---	---	---	---	---
GMW-O-5	11/04/98	<300	---	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-5	02/03/99	<500	---	<500	---	---	<0.50	<0.50	<0.50	<1	<1	<0.50	---	---	---	---
GMW-O-5	05/05/99	<500	---	<500	---	---	<0.50	<0.50	<0.50	<0.50	<1	<0.50	---	---	---	---
GMW-O-5	08/10/99	<500	---	<1000	---	---	2.3	4.4	<1	2.9	<0.50	<1	---	---	---	---
GMW-O-5	11/16/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-5	02/29/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-5	05/17/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-5	08/29/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
GMW-O-5	11/28/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-5	02/05/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-5	05/10/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-5	09/19/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-5	11/07/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-5	01/30/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-5	04/09/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-5	10/24/02	<300	---	---	---	2,300	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-5	01/15/03	<300	---	---	---	<100	---	---	---	---	---	---	---	---	---	---
GMW-O-5	04/09/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-5	10/09/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-5	04/21/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-5	11/04/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-5	05/04/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-5	11/01/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-5	05/05/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-5	12/07/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-5	05/03/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-5	11/15/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-5	04/18/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-5	10/15/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-5	04/21/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-5	10/20/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-5	05/25/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-5	10/04/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-5	04/12/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-5	10/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-5	04/18/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-5	10/16/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-6	11/22/96	---	---	---	---	---	<0.50	<0.50	<0.50	<1.5	<0.50	<5	---	---	---	---
GMW-O-6	07/09/97	<100	---	<500	---	---	<0.50	0.90	<0.50	<1	<0.50	<5	---	---	---	---
GMW-O-6	01/02/98	<100	---	<500	---	---	<0.50	<0.50	<0.50	<1	<0.50	<5	---	---	---	---
GMW-O-6	05/21/98	---	---	---	---	---	<0.50	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
GMW-O-6	11/04/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-6	05/05/99	<500	---	<500	---	---	<0.50	<0.50	<0.50	<0.50	<1	<0.50	---	---	---	---
GMW-O-6	11/17/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-6	05/17/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-6	11/28/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.9	---	---	---	---
GMW-O-6	05/10/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-6	11/07/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-6	04/09/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-6	10/24/02	<300	---	---	---	190	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-6	10/09/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-6	05/04/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-6	05/05/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-6	05/04/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-6	04/18/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-6	04/21/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-6	05/26/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-6	04/12/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-6	04/17/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-7	05/07/99	<500	---	<500	---	---	<0.50	<0.50	<0.50	<0.50	<1	<0.50	---	---	---	---
GMW-O-8	10/24/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	1.5	2.4	---	---	---	---
GMW-O-8	01/16/03	---	---	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-8	04/08/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-8	10/08/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-8	04/20/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-8	11/04/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-8	05/04/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-8	11/01/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-8	05/04/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-8	12/08/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-8	05/04/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-8	11/14/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
GMW-O-8	04/18/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-8	10/16/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-8	04/22/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-8	10/21/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-8	05/25/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-8	10/05/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-8	04/12/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-8	10/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-8	04/18/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-8	10/16/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-9	11/22/96	---	---	---	---	---	<0.50	<0.50	<0.50	<1.5	46	<5	---	---	---	---
GMW-O-9	07/10/97	<100	---	<500	---	---	<0.50	3.6	<0.50	<1	<0.50	<5	---	---	---	---
GMW-O-9	01/07/98	<100	---	<500	---	---	<0.50	<0.50	<0.50	<1.5	<0.50	<5	---	---	---	---
GMW-O-9	05/21/98	---	---	---	---	---	<0.50	<0.50	<0.50	<0.60	12	<0.50	---	---	---	---
GMW-O-9	11/16/98	<300	---	---	---	<100	3.0	7.0	1.0	6.0	5.8	<0.50	---	---	---	---
GMW-O-9	05/05/99	<500	---	<500	---	---	<0.50	<0.50	<0.50	<0.50	<1	<0.50	---	---	---	---
GMW-O-9	11/17/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	17	<0.50	---	---	---	---
GMW-O-9	05/17/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	72	<0.50	---	---	---	---
GMW-O-9	11/29/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	53	<0.50	---	---	---	---
GMW-O-9	05/10/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	87	<0.50	---	---	---	---
GMW-O-9	11/07/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	53	<0.50	---	---	---	---
GMW-O-9	04/09/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-9	10/24/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	35	<0.50	---	---	---	---
GMW-O-9	04/09/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	50	<0.50	---	---	---	---
GMW-O-9	10/09/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	35	<0.50	---	---	---	---
GMW-O-9	04/20/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	15	<0.50	---	---	---	---
GMW-O-9	11/04/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	9.9	<0.50	---	---	---	---
GMW-O-9	05/06/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	61	<0.50	---	---	---	---
GMW-O-9	11/02/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-9	05/05/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	1.8	<0.50	---	---	---	---
GMW-O-9	12/07/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	2.5	<0.50	---	---	---	---
GMW-O-9	05/04/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-9	11/14/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	5.9	<0.50	---	---	---	---
GMW-O-9	04/18/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-9	10/17/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-O-9	04/22/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-9	10/20/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-9	05/26/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-9	10/05/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-9	04/12/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-9	10/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-O-9	04/17/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-9	10/16/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-SF-10	09/24/03	90	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	210	---	---	---	---
GMW-SF-10	10/10/03	100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	120	---	---	---	---
GMW-SF-10	10/07/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-10	04/14/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-10	10/12/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-10	04/19/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-SF-10	10/17/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-SF-10 DUP	10/17/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-SF-7	11/25/96	---	---	---	---	---	<0.50	<0.50	<0.50	5.8	<0.50	<5	---	---	---	---
GMW-SF-7	07/11/97	<100	---	<500	---	---	<0.50	<0.50	<0.50	<1	<0.50	8.7	---	---	---	---
GMW-SF-7	01/02/98	<100	---	<500	---	---	<0.50	<0.50	<0.50	<1.5	<0.50	<5	---	---	---	---
GMW-SF-7	05/19/98	<300	---	---	---	---	<0.50	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
GMW-SF-7	11/11/98	<300	---	---	---	<100	0.96	<0.50	0.50	1.3	<0.50	<0.50	---	---	---	---
GMW-SF-7	05/07/99	<500	---	<500	---	---	1.0	4.1	<0.50	1.8	<1	1.3	---	---	---	---
GMW-SF-7	11/18/99	350	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	200	---	---	---	---
GMW-SF-7	05/17/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-7	11/29/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-7	05/08/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-7	11/06/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-7	02/01/02	---	---	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-7	04/10/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.9	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
GMW-SF-7	10/22/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	2.5	---	---	---	---
GMW-SF-7	01/29/03	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	4.1	---	---	---	---
GMW-SF-7	04/09/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.73	---	---	---	---
GMW-SF-7	07/30/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-7	10/06/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-7	01/28/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-7	04/20/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	32	---	---	---	---
GMW-SF-7	07/19/04	550	---	---	---	<100	<1	<1	<1	<1	<2	680	---	---	---	---
GMW-SF-7	11/02/04	220	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	340	---	---	---	---
GMW-SF-7	02/02/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-7	05/04/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-7	08/02/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-7	11/01/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-7	02/27/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-7	05/02/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-7	09/18/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-7	12/05/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-7	03/13/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-7	05/05/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-7	08/30/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-7	11/13/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-7	04/16/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-7	10/14/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-7	04/22/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-7	10/21/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-7	05/26/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-7	10/06/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-7	04/12/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-7	10/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-7	04/17/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-SF-7	10/16/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-SF-8	11/22/96	<100	---	<500	---	---	4.5	<1	<1	<3	<1	920	---	---	---	---
GMW-SF-8	07/11/97	<100	---	<500	---	---	<0.50	<0.50	<0.50	<1	<0.50	140	---	---	---	---
GMW-SF-8	01/06/98	<100	---	<500	---	---	4.1	<0.50	<0.50	<1.5	<0.50	450	---	---	---	---
GMW-SF-8	05/22/98	<300	---	---	---	---	<0.50	<0.50	<0.50	<1	<1	0.90	---	---	---	---
GMW-SF-8	11/12/98	<300	---	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	40	---	---	---	---
GMW-SF-8	05/07/99	<500	---	<500	---	---	<0.50	<0.50	<0.50	<0.50	<1	4.8	---	---	---	---
GMW-SF-8	11/18/99	660	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	800	---	---	---	---
GMW-SF-8	05/17/00	<300	---	---	---	250	<0.50	<0.50	<0.50	<0.50	<0.50	42	---	---	---	---
GMW-SF-8	11/30/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	220	---	---	---	---
GMW-SF-8	05/08/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	20	---	---	---	---
GMW-SF-8	11/06/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	260	---	---	---	---
GMW-SF-8	04/10/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	3.8	---	---	---	---
GMW-SF-8	10/22/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	5.2	---	---	---	---
GMW-SF-8	01/29/03	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.5	---	---	---	---
GMW-SF-8	04/09/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	6.5	---	---	---	---
GMW-SF-8	07/30/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-8	10/06/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-8	01/27/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-8	04/20/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-8	07/19/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-8	11/03/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-8	02/02/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-8	05/04/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-8	08/01/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-8	11/01/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-8	02/27/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-8	05/02/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-8	09/18/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<1	<0.50	---	---	---	---
GMW-SF-8	12/05/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-8	05/04/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-8	11/14/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-8	04/16/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GMW-SF-8	10/14/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toulene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
GMW-SF-8	04/23/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-8	10/21/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-8	05/26/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-8	10/06/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-8	04/12/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-8	10/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-8	04/17/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-SF-8	10/16/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-SF-9	09/24/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	9.2	---	---	---	---
GMW-SF-9	10/10/03	79	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	14	---	---	---	---
GMW-SF-9	10/07/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-9	04/13/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
GMW-SF-9	10/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	40	<1	<1	<1	<1
GMW-SF-9	10/12/11	<100	---	---	---	1,300	1.5	<0.50	<0.50	<0.50	<1	<0.50	<10	<1	<1	<1
GMW-SF-9	04/19/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	110	< 1	< 1	< 1
GMW-SF-9 DUP	04/19/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	150	< 1	< 1	< 1
GMW-SF-9	10/17/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	270	< 1	< 1	< 1
GW-1	10/17/08	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	0.84	2.3	<10	<2	<2	<2
GW-1	08/03/09	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-13(6")	05/03/07	---	---	---	---	2,800	<0.50	<0.50	<0.50	<0.50	0.83	5.3	31	<2	<2	<2
GW-13(1")	11/15/07	---	---	---	---	1,400	<0.50	<0.50	<0.50	<0.50	0.94	3.5	20	<2	<2	<2
GW-13(6")	04/17/08	230	---	---	---	1,300	<0.50	<0.50	<0.50	<0.50	0.99	4.4	28	<2	<2	<2
GW-13(6")	04/24/09	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	14	11	<10	2.1	<2	<2
GW-13(6")	01/12/10	<100	<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	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	7.4	12	16	1.5 J	<2	<2
GW-13(6")	10/08/10	<100	120	---	---	---	<0.50	---	---	---	5.0	11	24	---	---	---
GW-13(6")	04/22/11	---	---	---	---	---	<0.50	<0.50	<0.50	<0.50	3.7	6.8	16	0.72 J	<2	<2
GW-13(6")	04/18/12	< 100	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	6.9	3.0	< 10	1.2 J	< 2.0	< 2.0
GW-13(6")	07/09/12	---	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.60	0.78	< 10	< 2.0	< 2.0	< 2.0
GW-14(6")	05/03/07	---	---	---	---	4,000	200	5.2	220	900	---	39	---	---	---	---
GW-14(1")	11/15/07	---	---	---	---	950	35	<0.50	14	3.9	<0.50	18	20	<2	<2	<2
GW-14(1")	04/18/08	900	---	---	---	1,000	78	<0.50	<0.50	2.3	<0.50	18	13	<2	<2	<2
GW-14(6")	10/16/08	820	2,700	---	---	---	40	<0.50	2.1	1.0	<0.50	22	16	<2	<2	<2
GW-14(6")	04/24/09	690	1,600	---	---	---	66	<0.50	0.99	0.64	<0.50	13	14	<2	<2	<2
GW-14(1")	10/22/09	110	900	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-14(1")	01/13/10	950	2,100	---	---	---	62	0.35 J	1.0	1.4	<0.50	17	18	<2	<2	<2
GW-14(6")	04/15/11	---	2,600	---	---	---	---	---	---	---	---	---	---	---	---	---
GW-14(6")	04/22/11	---	---	---	---	---	76	<0.50	9.4	9.0	<0.50	17	7.8 J	<2	<2	0.87 J
GW-14(6")	04/20/12	1,800	1,300	---	---	---	19	< 0.50	14	6.5	0.50	8.5	< 10	< 2.0	< 2.0	< 2.0
GW-14(6")	07/10/12	---	2,200	---	---	---	18	< 0.50	16	11	0.50	8.2	5.1 J	< 2.0	< 2.0	< 2.0
GW-14(6") DUP	07/10/12	---	---	---	---	---	18	< 0.50	16	10	0.50	7.8	< 10	< 2.0	< 2.0	< 2.0
GW-15(6")	05/03/07	8,500	---	---	---	1,600	1,100	1,000	130	570	<0.50	<0.50	<10	<2	<2	<2
GW-15	03/02/12	---	---	---	---	---	71	< 0.50	2.2	30	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
GW-16(6")	10/23/09	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-16(6")	01/13/10	<100	460	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6.4 J	<2	<2	<2
GW-16(6")	04/19/10	---	<100	---	---	---	<0.50	<0.50	2.6	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-16(6")	10/08/10	<100	<100	---	---	---	1.7	---	---	---	<0.50	<0.50	5.5 J	---	---	---
GW-16(6")	04/12/11	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	76	<2	<2	<2
GW-16	03/02/12	---	---	---	---	---	6.6	< 0.50	4.0	9.9	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
GW-2	01/12/10	<100	120	---	---	---	3.6	<0.50	<0.50	<0.50	23	1.8	8.8 J	2.6	<2	<2
GW-2	10/08/10	180	800	---	---	---	18	---	---	---	4.6	1.4	21	---	---	---
GW-2	04/19/12	< 100	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	4.0	0.60	< 10	< 2.0	< 2.0	< 2.0
GW-2	07/10/12	---	110	---	---	---	2.4	< 0.50	< 0.50	0.24 J	6.2	0.69	10	0.79 J	< 2.0	< 2.0
GW-3	04/11/03	---	---	---	---	134	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GW-3	10/11/03	---	---	---	---	300	<0.50	<0.50	<0.50	<0.50	<0.50	2.9	---	---	---	---
GW-3	04/22/04	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	<10	<2	<2	<2
GW-3	11/04/04	---	---	---	---	3,900	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-3	05/10/05	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-3	11/08/05	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-3	05/03/06	---	---	---	---	200	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-3	12/06/06	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-3	05/03/07	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-3	11/14/07	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-3	04/17/08	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
GW-3	10/16/08	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-3	04/24/09	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	17	<2	<2	<2
GW-3	10/22/09	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-3	04/15/10	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	18	<2	<2	<2
GW-6	11/06/98	339	---	---	---	<100	9.3	1.1	8.4	6.6	<0.50	<0.50	---	---	---	---
GW-6	05/27/99	<300	---	---	---	<100	62	<0.50	12	<0.50	<0.50	<0.50	---	---	---	---
GW-6	11/18/99	690	---	---	---	930	90	<1	80	<0.50	<0.50	<0.50	---	---	---	---
GW-6	05/17/00	<300	---	---	---	160	1.7	<0.50	2.5	<0.50	<0.50	<0.50	19	---	---	---
GW-6	12/01/00	<300	---	---	---	180	3.7	<0.50	1.6	<0.50	<0.50	<0.50	21	---	---	---
GW-6	05/10/01	<300	---	---	---	140	0.70	<0.50	<0.50	<0.50	<0.50	<0.50	23	---	---	---
GW-6	11/08/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	21	---	---	---
GW-6	10/24/02	<300	---	---	---	<100	<0.50	<1	<1	<1	<0.50	9.6	---	---	---	---
GW-6	04/11/03	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
GW-6	10/10/03	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.71	---	---	---	---
GW-6	04/22/04	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-6	11/04/04	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-6	05/10/05	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-6	11/08/05	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-6	05/05/06	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-6	05/02/07	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-6	04/17/08	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-6	10/15/08	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
GW-6	04/21/09	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	1.5	<10	<2	<2	<2
GW-6	10/22/09	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	1.8	<10	<2	<2	<2
GW-6	04/13/10	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	0.76	<10	<2	<2	<2
GW-6	10/05/10	---	110	---	---	---	<0.50	---	---	---	<0.50	1.1	4.7 J	---	---	---
GW-6	10/12/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	0.51	<10	<2	<2	<2
GW-6	04/18/12	---	<100	---	---	---	<0.50	<0.50	<0.50	<1.0	0.50	0.54	<10	<2.0	<2.0	<2.0
GW-6	10/19/12	---	<100	---	---	---	<0.50	<0.50	<0.50	<1.0	0.50	0.67	<10	<2.0	<2.0	<2.0
GW-7	04/12/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.8	---	---	---	---
GWR-1	11/26/96	---	---	---	---	---	1,500	21	150	102	<5	2,700	---	---	---	---
GWR-1	07/16/97	1,300	---	920	---	---	220	<5	360	29	<5	1,800	---	---	---	---
GWR-1	01/09/98	210	---	<500	---	---	2.9	<0.50	40	240	<0.50	330	---	---	---	---
GWR-1	05/27/98	4,100	---	---	---	---	960	90	90	240	<0.50	630	---	---	---	---
GWR-1	11/17/98	3,830	---	---	---	3,320	1,200	74	99	387	<25	1,070	---	---	---	---
GWR-1	05/07/99	4,200	---	530	---	---	1,600	22	96	290	<13	910	---	---	---	---
GWR-1	11/18/99	1,300	---	---	---	800	220	<10	14	14	<10	690	---	---	---	---
GWR-1	05/16/00	880	---	---	---	1,400	160	<10	16	16	6.1	550	---	---	---	---
GWR-1	11/30/00	3,200	---	---	---	5,300	1,600	8.6	87	33	<0.50	360	---	---	---	---
GWR-1	05/08/01	4,400	---	---	---	6,900	1,800	170	160	235	<10	370	---	---	---	---
GWR-1	11/06/01	2,300	---	---	---	710	240	13	31	56	<0.50	2,400	---	---	---	---
GWR-1	04/09/02	2,500	---	---	---	1,000	580	<10	18	57	<10	4,000	---	---	---	---
GWR-1	10/23/02	1,900	---	---	---	1,900	270	<10	<10	<10	<10	2,500	---	---	---	---
GWR-1	10/07/03	1,400	---	---	---	500	150	1.7	7.5	20	110	1,300	---	---	---	---
GWR-1	05/06/05	16,000	---	---	---	39,000	260	610	460	2,060	<5	11	---	---	---	---
GWR-1	08/01/05	8,300	---	---	---	3,800	1,700	490	370	1,110	<20	25	---	---	---	---
GWR-1	05/04/06	3,700	---	---	---	1,900	980	23	120	343	<10	19	---	---	---	---
GWR-1	09/18/06	960	---	---	---	880	220	4.4	19	64	<2	5.4	---	---	---	---
GWR-1	05/02/07	750	---	---	---	720	170	1.3	12	<1	<2	4.1	---	---	---	---
GWR-1	04/17/08	3,600	---	---	---	1,500	1,700	17	87	60	<30	21	---	---	---	---
GWR-1	04/20/09	5,100	---	---	---	1,700	3,000	<15	48	<15	<30	31	<300	30	<30	<30
GWR-1	05/27/10	2,100	---	---	---	1,100	800	9.5	16	34	<10	23	<100	27	<10	<10
GWR-1	04/13/11	1,300	---	---	---	2,300	490	43	31	54	<5	4.1	160	5.2	<5	<5
GWR-1	04/20/12	450	---	230	---	---	84	<1	4.8	<1	<2	3.4	<20	4.9	<2	<2
GWR-1	10/18/12	440	---	240	---	---	140	2.2	<1.5	1.5	<3	8.6	68	15	<3	<3
GWR-3	10/08/10	21,000	---	---	---	<29000	10,000	<100	<100	<100	<200	400	<2000	<200	<200	<200
GWR-3	04/13/11	25,000	---	---	---	36,000	11,000	<50	<50	<50	<100	300	<1000	<100	<100	<100
GWR-3	10/13/11	<20000	---	---	---	6,600	9,100	<100	<100	<100	<200	280	<2000	<200	<200	<200
HL-2	11/27/96	---	---	---	---	---	2,600	100	560	390	170	3,000	---	---	---	---
HL-2	07/16/97	1,400	---	530	---	---	200	1.2	150	13	74	810	---	---	---	---
HL-2	01/09/98	150	---	---	---	---	<0.50	0.79	3.5	<1.5	40	570	---	---	---	---
HL-2	01/12/98	---	---	<500	---	---	---	---	---	---	---	---	---	---	---	---
HL-2	05/27/98	500	---	---	---	---	72	9.0	6.0	42	60	308	---	---	---	---
HL-2	11/17/98	<300	---	---	---	<100	0.95	<0.50	<0.50	0.60	0.94	14	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
HL-2	05/07/99	<500	---	<500	---	---	1.8	5.1	<0.50	1.8	<1	4.8	---	---	---	---
HL-2	11/19/99	<300	---	---	---	<100	2.0	<0.50	<0.50	<0.50	2.6	36	---	---	---	---
HL-2	05/16/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	1.4	14	---	---	---	---
HL-2	11/29/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	3.2	---	---	---	---
HL-2	05/08/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	7.3	---	---	---	---
HL-2	11/06/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.80	---	---	---	---
HL-2	04/09/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
HL-2	04/08/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.85	---	---	---	---
HL-2	07/08/03	---	---	---	---	---	<0.50	<1	<1	<1	<0.50	<1	---	---	---	---
HL-2	10/07/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.96	---	---	---	---
HL-2	04/21/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	7.9	---	---	---	---
HL-2	07/08/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.67	---	---	---	---
HL-2	05/06/05	280	---	---	---	<100	78	<0.50	<0.50	1.2	15	130	---	---	---	---
HL-2	11/03/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<1	1.8	---	---	---	---
HL-2	05/09/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.7	---	---	---	---
HL-2	12/06/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
HL-2	05/02/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
HL-2	11/13/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
HL-2	04/17/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.56	---	---	---	---
HL-2	10/17/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
HL-2	04/20/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
HL-2	10/21/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
HL-2	05/26/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
HL-2	10/06/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
HL-2	04/12/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.57	<10	<1	<1	<1
HL-2	10/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
HL-2	04/17/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
HL-2	10/16/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
HL-3	05/10/01	<300	---	---	---	300	<0.50	<0.50	<0.50	<0.50	1.4	110	---	---	---	---
HL-3	11/06/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	1.6	93	---	---	---	---
HL-3	04/10/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	1.1	77	---	---	---	---
HL-3	10/23/02	<300	---	---	---	360	<0.50	<0.50	<0.50	<0.50	<0.50	85	---	---	---	---
HL-3	10/07/03	80	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	67	---	---	---	---
HL-3	05/06/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
HL-3	05/03/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
HL-3	05/02/07	81	---	---	---	290	<0.50	<0.50	<0.50	<0.50	<0.50	38	---	---	---	---
HL-3	04/17/08	<50	---	---	---	100	<0.50	<0.50	<0.50	<0.50	<0.50	4.7	---	---	---	---
HL-3	04/20/09	<50	---	---	---	130	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	<10	<1	<1	<1
HL-3	05/27/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
HL-3	04/12/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
HL-3	04/18/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
HL-4	11/25/96	---	---	---	---	---	<10	3.2	350	8.5	<3	1,200	---	---	---	---
HL-4	07/16/97	270	---	<500	---	---	76	<1	<1	17	33	1,500	---	---	---	---
HL-4	01/08/98	590	---	660	---	---	170	13	7.1	5.0	90	2,300	---	---	---	---
HL-4	05/27/98	1,100	---	---	---	---	156	26	15	120	28	440	---	---	---	---
HL-4	11/17/98	2,030	---	---	---	1,380	700	76	20	108	<0.50	904	---	---	---	---
HL-4	05/07/99	2,800	---	<500	---	---	1,100	31	130	84	<6	1,500	---	---	---	---
HL-4	11/18/99	2,500	---	---	---	1,100	720	<10	<10	118	<10	520	---	---	---	---
HL-4	05/16/00	1,200	---	---	---	1,000	300	<10	<10	29	51	740	---	---	---	---
HL-4	11/29/00	1,900	---	---	---	1,200	26	<10	<10	<10	89	2,800	---	---	---	---
HL-4	05/08/01	1,700	---	---	---	1,100	39	<0.50	0.50	1.7	27	3,300	---	---	---	---
HL-4	11/06/01	950	---	---	---	140	97	<0.50	<0.50	0.90	<0.50	930	---	---	---	---
HL-4	04/09/02	1,600	---	---	---	230	940	<5	<5	35	<5	200	---	---	---	---
HL-4	10/23/02	<300	---	---	---	320	8.5	<5	<5	<5	<5	1,100	---	---	---	---
HL-4	04/08/03	1,500	---	---	---	<100	2.8	<2.5	<2.5	<2.5	36	2,200	---	---	---	---
HL-4	10/07/03	690	---	---	---	110	140	<1	<1	<1	<2	480	---	---	---	---
HL-4	04/21/04	340	---	---	---	<100	39	<0.50	<0.50	<0.50	<1	370	---	---	---	---
HL-4	11/03/04	200	---	---	---	120	54	<0.50	<0.50	<0.50	<0.50	13	---	---	---	---
HL-5	07/14/97	950	---	3,200	---	---	---	---	---	---	---	---	---	---	---	---
HP-1	08/07/97	---	---	---	170	---	<5	<5	<5	<10	<5	<5	---	---	---	---
HP-2	08/07/97	---	---	---	130	---	<5	<5	<5	<10	<5	<5	---	---	---	---
HP-3	08/07/97	---	---	---	<50	---	<5	<5	<5	<10	<5	<5	---	---	---	---
HP-6	08/08/97	---	---	---	230	---	<5	<5	<5	<10	<5	<5	---	---	---	---
HP-8	08/08/97	---	---	---	35,000	---	11,000	12,000	1,200	7,300	<500	<500	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
MW-10	11/21/96	<38	---	<500	<500	---	<0.50	<0.50	5.1	2.3	<0.50	---	---	---	---	---
MW-10	07/09/97	<50	---	170	<50	---	<0.50	<1	2.0	<2	---	---	---	---	---	---
MW-10	01/06/98	<500	---	<100	<100	---	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
MW-10	05/20/98	<300	---	---	---	---	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
MW-10	11/04/98	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
MW-10	05/27/99	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
MW-10	11/18/99	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
MW-10	05/16/00	<300	---	---	---	120	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
MW-10	11/29/00	<300	---	---	---	<100	<0.30	<0.30	<0.30	2.4	---	<5	---	---	---	---
MW-10	05/09/01	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
MW-10	11/07/01	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
MW-10	04/10/02	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
MW-11	12/01/00	<300	---	---	---	290	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
MW-11	05/10/01	<300	---	---	---	180	1.0	<0.30	0.61	<0.60	---	13	---	---	---	---
MW-11	11/07/01	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
MW-11	04/10/02	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	19	---	---	---	---
MW-11	04/14/03	---	---	---	---	6,120	84	1.5	59	51	---	<3	---	---	---	---
MW-11	10/10/03	---	---	---	---	1,000	<0.30	<0.30	0.42	0.95	---	12	---	---	---	---
MW-11	04/22/04	---	---	---	---	<100	<0.30	<0.30	<0.30	<0.30	---	6.4	---	---	---	---
MW-11	11/06/04	---	---	---	---	1,300	2.3	<0.30	0.64	5.9	---	8.1	---	---	---	---
MW-11	05/07/05	---	---	---	---	<100	0.34	0.61	<0.30	0.60	---	13	---	---	---	---
MW-11	11/08/05	---	---	---	---	<100	0.33	<0.30	<0.30	0.69	---	37	---	---	---	---
MW-11	05/05/06	---	---	---	---	2,300	1.6	3.4	3.4	6.9	---	11	---	---	---	---
MW-11	12/08/06	---	---	---	---	740	3.1	<0.50	<0.50	<1	---	20	---	---	---	---
MW-11	05/03/07	---	---	---	---	1,300	4.3	<0.50	0.86	1.1	---	43	---	---	---	---
MW-11	11/14/07	---	---	---	---	450	<0.50	<0.50	<0.50	<1	---	18	---	---	---	---
MW-11	04/18/08	---	---	---	---	1,100	<0.50	<0.50	1.0	1.5	---	<5	---	---	---	---
MW-11	10/17/08	---	880	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	12	<10	<2	<2	<2
MW-11	04/24/09	---	520	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	8.7	<10	<2	<2	<2
MW-11	10/22/09	---	670	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	3.9	<10	<2	<2	<2
MW-11	04/14/10	---	700	---	---	---	<0.50	<0.50	0.58	<0.50	---	3.8	<10	<2	<2	<2
MW-11	04/19/12	220	710	---	---	---	<0.50	<0.50	<0.50	0.31 J	0.50	<0.50	<10	<2.0	<2.0	<2.0
MW-11	07/10/12	---	780	---	---	---	<0.50	<0.50	<0.50	<1.0	0.50	<0.50	<10	<2.0	<2.0	<2.0
MW-12	05/22/98	<300	---	---	---	---	<0.50	<0.50	<0.50	<1	<10	<0.50	---	---	---	---
MW-12	11/11/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-12	05/07/99	<500	---	<500	---	---	1.2	4.8	<0.50	2.1	<1	<0.50	---	---	---	---
MW-12	11/16/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-12	05/19/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-12	11/30/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-12	05/09/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-12	11/07/01	<300	---	---	---	<100	1.3	1.1	<0.50	0.70	<0.50	<0.50	---	---	---	---
MW-12	04/11/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-12	10/24/02	<300	---	---	---	2,800	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-12	04/10/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-12	10/08/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-12	04/22/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-12	11/05/04	<50	---	---	---	120	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-12	05/05/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-12	11/03/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-12	05/03/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-12	12/07/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-12	05/05/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-12	11/14/07	<50	---	---	---	190	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-12	04/17/08	<50	---	---	---	120	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-12	10/21/08	<50	---	---	---	170	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-12	04/22/09	<50	---	---	---	100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
MW-12	10/21/09	<50	---	---	---	150	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
MW-12	05/26/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
MW-12	10/06/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
MW-12	04/12/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
MW-12	10/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
MW-12	04/18/12	<50	---	<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	<1
MW-12	10/18/12	<50	---	<100	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	<1
MW-13	11/22/96	1,100	---	<500	<500	---	<0.50	<0.50	<0.50	<1.5	<0.50	---	---	---	---	---

**TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012**

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
MW-13	07/09/97	<50	---	<50	<50	---	<0.50	<1	<1	<2	---	---	---	---	---	---
MW-13	01/06/98	<500	---	<100	<100	---	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
MW-13	05/20/98	<300	---	---	---	---	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
MW-13	11/05/98	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
MW-13	05/26/99	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
MW-13	11/18/99	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
MW-13	05/17/00	<300	---	---	---	20,000	<0.30	1.2	<0.30	0.91	---	---	---	---	---	---
MW-13	11/29/00	<300	---	---	---	410	<0.30	<0.30	<0.30	0.89	---	<5	---	---	---	---
MW-13	03/30/01	---	---	---	---	<50	---	---	---	---	---	---	---	---	---	---
MW-13	05/09/01	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
MW-13	11/07/01	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	14	---	---	---	---
MW-13	04/10/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-13	10/23/02	<300	---	---	---	<100	<0.50	<1	<1	<1	<0.50	<1	---	---	---	---
MW-13	04/09/03	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-13	10/08/03	---	---	---	---	110	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-13	04/21/04	---	---	---	---	160	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-13	11/03/04	---	---	---	---	320	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-13	05/05/05	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-13	11/05/05	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-13	05/03/06	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-13	12/05/06	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-13	05/02/07	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-13	11/13/07	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-13	04/16/08	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-13	10/15/08	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-13	04/20/09	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-13	10/22/09	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-13	04/19/10	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-13	10/06/10	---	<100	---	---	---	<0.50	---	---	---	<0.50	<0.50	<10	---	---	---
MW-13	04/12/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-13	10/12/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-13	04/17/12	---	<100	---	---	---	<0.50	<0.50	<0.50	<1.0	0.50	<0.50	<10	<2.0	<2.0	<2.0
MW-13	10/16/12	---	<100	---	---	---	<0.50	<0.50	<0.50	<1.0	0.50	<0.50	<10	<2.0	<2.0	<2.0
MW-14	11/21/96	<50	---	<500	<500	---	<0.50	<0.50	<0.50	<1.5	<0.50	99	---	---	---	---
MW-14	07/09/97	<50	---	200	<50	---	<5	<5	<5	<5	<5	<5	---	---	---	---
MW-14	01/06/98	<500	---	<100	800	---	107	<0.50	4.0	10	2.0	15	---	---	---	---
MW-14	05/20/98	400	---	---	---	---	24	<0.50	7.0	14	<0.50	12	---	---	---	---
MW-14	08/26/98	<300	---	---	---	367	<0.50	<0.50	0.70	2.1	<0.50	109	---	---	---	---
MW-14	11/04/98	<300	---	---	---	361	<0.50	2.8	4.8	25	<0.50	49	---	---	---	---
MW-14	02/03/99	<500	---	<500	---	---	<0.50	<0.50	<0.50	<1	<1	86	---	---	---	---
MW-14	05/07/99	<500	---	<500	---	---	<0.50	<0.50	<0.50	0.53	<1	450	---	---	---	---
MW-14	05/26/99	<300	---	---	---	<100	<0.50	<0.50	0.70	1.1	<0.50	230	---	---	---	---
MW-14	08/10/99	<500	---	<1000	---	---	<0.50	<1	<1	<1	2.9	110	---	---	---	---
MW-14	11/18/99	<300	---	---	---	<100	<2.5	<5	<5	<5	12	26	---	---	---	---
MW-14	02/29/00	<300	---	---	---	420	<0.50	<0.50	<0.50	<0.50	36	15	---	---	---	---
MW-14	05/16/00	<300	---	---	---	370	<0.50	<0.50	<0.50	1.4	42	7.7	---	---	---	---
MW-14	08/29/00	<300	---	---	---	3,800	<0.50	<0.50	<0.50	0.60	38	9.6	---	---	---	---
MW-14	11/29/00	<300	---	---	---	130	<0.50	<0.50	0.50	0.90	15	18	---	---	---	---
MW-14	02/06/01	<300	---	---	---	230	<0.50	<0.50	<0.50	0.50	11	13	---	---	---	---
MW-14	05/09/01	<300	---	---	---	310	<0.50	<0.50	1.8	7.4	32	8.2	---	---	---	---
MW-14	09/19/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	1.1	23	15	---	---	---	---
MW-14	11/07/01	<300	---	---	---	190	<0.50	<0.50	0.80	2.3	29	10	---	---	---	---
MW-14	01/30/02	<300	---	---	---	450	<0.50	<0.50	<0.50	1.5	8.1	25	---	---	---	---
MW-14	04/10/02	<300	---	---	---	<100	<0.50	<0.50	2.7	6.4	4.1	24	---	---	---	---
MW-14	07/30/02	<300	---	---	---	500	<0.50	<0.50	0.98	2.4	3.9	25	---	---	---	---
MW-14	10/23/02	<300	---	---	---	300	<0.50	<1	<1	<1	4.3	22	---	---	---	---
MW-14	01/28/03	<300	---	---	---	<100	<0.50	<0.50	<0.50	0.67	5.9	17	---	---	---	---
MW-14	04/11/03	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	1.8	17	---	---	---	---
MW-14	10/10/03	---	---	---	---	580	<0.50	<0.50	1.2	4.0	7.4	19	---	---	---	---
MW-14	04/22/04	---	---	---	---	<100	<0.50	<0.50	<0.50	0.89	4.7	19	<10	<2	<2	<2
MW-14	07/21/04	250	---	---	---	290	<0.50	<0.50	0.61	1.4	---	22	---	---	---	---
MW-14	11/04/04	---	---	---	---	610	<0.50	<0.50	<0.50	<0.50	5.6	19	<10	<2	<2	<2
MW-14	03/02/05	---	---	---	---	320	<0.50	<1	<1	<1	---	14	---	---	---	---
MW-14	05/07/05	---	---	---	---	430	1.3	<0.50	<0.50	<0.50	<0.50	9.3	22	<2	<2	<2

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NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
MW-14	11/08/05	---	---	---	---	2,200	6.5	<0.50	1.3	3.6	1.0	3.6	32	<2	<2	<2
MW-14	05/03/06	---	---	---	---	2,600	<0.50	<0.50	<0.50	<0.50	0.78	4.2	31	<2	<2	<2
MW-14	07/28/06	290	---	---	---	4,300	<0.50	<0.50	<0.50	<0.50	0.83	4.2	31	<2	<2	<2
MW-14	12/06/06	---	---	---	---	1,900	<0.50	<0.50	<0.50	<0.50	0.98	3.3	20	<2	<2	<2
MW-14	03/23/07	670	---	---	---	3,400	<0.50	<0.50	<0.50	<0.50	0.94	3.5	29	<2	<2	<2
MW-14	05/03/07	---	---	---	---	3,100	<0.50	<0.50	<0.50	<0.50	0.94	3.6	<10	<2	<2	<2
MW-14	08/31/07	480	---	---	---	2,800	<0.50	<0.50	<0.50	<0.50	<0.50	3.6	27	<2	<2	<2
MW-14	11/15/07	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	0.97	4.0	20	<2	<2	<2
MW-14	02/07/08	180	---	---	---	1,400	<0.50	<0.50	<0.50	<0.50	0.86	5.2	28	<2	<2	<2
MW-14	04/17/08	---	---	---	---	1,700	<0.50	<0.50	<0.50	<0.50	1.2	4.6	32	<2	<2	<2
MW-14	10/16/08	---	570	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	2.3	10	<2	<2	<2
MW-14	02/12/09	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	1.1	1.6	<10	<2	<2	<2
MW-14	04/22/09	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	16	1.9	<10	<2	<2	<2
MW-14	07/20/09	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	13	1.5	<10	2.4	<2	<2
MW-14	10/22/09	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	16	2.5	<10	3.0	<2	<2
MW-14	01/12/10	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	13	2.7	4.2 J	3.2	<2	<2
MW-14	04/13/10	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	0.4 J	4.3	<10	<2	<2	<2
MW-14	10/04/10	---	100	---	---	---	<0.50	---	---	---	0.99	3.4	<10	---	---	---
MW-14	01/10/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	0.66	<10	<2	<2	<2
MW-14	04/13/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	3.0	<10	<2	<2	<2
MW-14	07/11/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	0.48 J	11	<2	<2	<2
MW-14	10/12/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	2.1	2.7	<10	0.83 J	<2	<2
MW-14	01/09/12	---	<100	---	---	---	<0.50	<0.50	<0.50	<1.0	3.3	3.6	<10	0.83 J	<2.0	<2.0
MW-14	04/18/12	---	<100	---	---	---	<0.50	<0.50	<0.50	<1.0	6.6	0.78	<10	1.2 J	<2.0	<2.0
MW-14	07/09/12	---	<100	---	---	---	<0.50	<0.50	<0.50	<1.0	4.0	0.72	<10	1.1 J	<2.0	<2.0
MW-14	10/18/12	---	<100	---	---	---	<0.50	<0.50	<0.50	<1.0	7.0	1.9	<10	1.3 J	<2.0	<2.0
MW-15	11/26/96	---	---	---	---	---	1.4	0.66	1.0	0.62	<0.50	27	---	---	---	---
MW-15	07/14/97	1,000	---	3,500	---	---	1.5	1.1	<0.50	<1	<0.50	<5	---	---	---	---
MW-15	01/07/98	<500	---	1,500	---	---	0.62	0.73	<0.50	<1.5	<0.50	<5	---	---	---	---
MW-15	05/22/98	<300	---	---	---	---	<0.50	<0.50	<0.50	0.70	<1	<0.50	---	---	---	---
MW-15	11/13/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-15	05/07/99	<500	---	<500	---	---	<0.50	<0.50	<0.50	<0.50	<1	<0.50	---	---	---	---
MW-15	11/17/99	<300	---	---	---	910	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-15	05/16/00	340	---	---	---	1,200	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-15	11/30/00	2,100	---	---	---	1,700	<0.50	0.80	<0.50	1.1	<0.50	<0.50	---	---	---	---
MW-15	05/09/01	<300	---	---	---	690	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-15	11/06/01	<300	---	---	---	740	<0.50	<0.50	<0.50	<0.50	<0.50	0.60	---	---	---	---
MW-15	04/10/02	59,000	---	---	---	21,000	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-15	07/30/02	780	---	---	---	550,000	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-15	12/08/06	420	---	---	---	6,400	<0.50	<0.50	<0.50	1.0	<0.50	0.60	---	---	---	---
MW-15	05/04/07	<500	---	---	---	6,100	<2.5	<2.5	<2.5	<2.5	<5	<2.5	---	---	---	---
MW-15	10/05/10	1,100	---	---	---	<47000	<1	<1	<1	<1	<2	<1	<20	<2	<2	<2
MW-15	04/14/11	1,900	---	---	---	220,000	<1	<1	<1	<1	<2	<1	<20	<2	<2	<2
MW-15	10/12/11	590	---	---	---	66,000	<1	<1	<1	<1	<2	<1	<20	<2	<2	<2
MW-15	04/27/12	1,100	---	40,000	---	---	<1	<1	<1	<1	<2	<1	<20	<2	<2	<2
MW-15	10/19/12	940	---	34,000	---	---	<1	<1	<1	<1	<2	<1	<20	<2	<2	<2
MW-16	11/27/96	50	---	<500	<500	---	<0.50	<0.50	<0.50	1.5	140	71	---	---	---	---
MW-16	07/10/97	<50	---	<50	<50	---	<5	<5	<5	<5	<5	<5	---	---	---	---
MW-16	01/06/98	<500	---	<100	<100	---	<0.50	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
MW-16	05/21/98	<300	---	---	---	---	<0.50	0.70	<0.50	0.60	<0.50	<0.50	---	---	---	---
MW-16	11/05/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-16	05/27/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-16	11/18/99	<300	---	---	---	<100	<0.50	<1	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-16	05/17/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-16	11/30/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-16	05/09/01	<300	---	---	---	3,100	2.6	<0.50	<0.50	0.60	<0.50	<0.50	---	---	---	---
MW-16	11/07/01	<300	---	---	---	2,100	1.2	<0.50	<0.50	<0.50	<0.50	31	---	---	---	---
MW-16	02/01/02	---	---	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	220	---	---	---	---
MW-16	04/11/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	260	---	---	---	---
MW-16	10/23/02	<300	---	---	---	<100	<0.50	<1	<1	<1	<0.50	14	---	---	---	---
MW-16	01/29/03	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	6.8	---	---	---	---
MW-16	04/09/03	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<1	16	---	---	---	---
MW-16	08/01/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	110	---	---	---	---
MW-16	10/11/03	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	100	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
MW-16	01/28/04	51	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	89	---	---	---	---
MW-16	04/21/04	---	---	---	---	180	<0.50	<0.50	<0.50	<0.50	<0.50	83	110	<2	<2	<2
MW-16	07/20/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	22	---	---	---	---
MW-16	11/04/04	---	---	---	---	300	<0.50	<0.50	<0.50	<0.50	<0.50	3.3	120	<2	<2	<2
MW-16	02/02/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-16	05/06/05	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-16	08/02/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-16	11/08/05	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-16	05/04/06	---	---	---	---	180	0.87	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-16	09/19/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-16	12/08/06	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-16	05/03/07	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-16	11/16/07	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-16	04/17/08	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-16	10/16/08	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-16	04/23/09	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-16	10/23/09	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-16	04/16/10	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-16	10/07/10	---	<100	---	---	---	<0.50	---	---	---	<0.50	<0.50	<10	---	---	---
MW-16	04/12/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-16	10/12/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-16	04/17/12	---	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
MW-16	10/16/12	---	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
MW-17	11/27/96	45	---	<500	<500	---	<0.50	<0.50	<0.50	<1	<0.50	---	---	---	---	---
MW-17	07/09/97	<50	---	<50	<50	---	<5	<5	<5	<5	<5	<5	---	---	---	---
MW-17	01/06/98	<500	---	<100	<100	---	<0.50	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
MW-17	05/20/98	<300	---	---	---	---	<0.50	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
MW-17	11/04/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-17	05/26/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-17	11/18/99	<300	---	---	---	<100	<0.50	<1	<0.50	<0.50	<0.50	0.50	---	---	---	---
MW-17	05/17/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-17	11/29/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-17	05/09/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-17	11/07/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-17	04/10/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-17	10/23/02	<300	---	---	---	<100	<0.50	<1	<1	<1	<0.50	<1	---	---	---	---
MW-17	04/10/03	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-17	10/08/03	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-17	04/21/04	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-17	11/03/04	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-17	05/05/05	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-17	11/05/05	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-17	05/03/06	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-17	12/05/06	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-17	05/02/07	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-17	11/13/07	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-17	04/16/08	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-17	10/15/08	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-17	04/20/09	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-17	10/23/09	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-17	04/16/10	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-17	10/06/10	---	<100	---	---	---	<0.50	---	---	---	<0.50	<0.50	<10	---	---	---
MW-17	04/12/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-17	10/13/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-17	04/17/12	---	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
MW-17	10/16/12	---	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
MW-18 MID	07/16/97	<100	---	<500	---	---	---	---	---	---	---	---	---	---	---	---
MW-18 MID	01/05/98	420	---	<500	---	---	---	---	---	---	---	---	---	---	---	---
MW-18 MID	10/08/03	530	---	---	---	240	1.2	<1	<1	<1	16	640	---	---	---	---
MW-18 MID	10/07/10	1,100	---	---	---	<1000	290	<1.5	<1.5	<1.5	<3	12	150	11	<3	<3
MW-18 MID	04/13/11	4,100	---	---	---	910	1,900	<10	<10	11	<20	13	<200	21	<20	<20
MW-18 MID	10/12/11	1,200	---	---	---	720	460	<2.5	<2.5	3.2	<5	4.6	82	9.3	<5	<5
MW-18 MID	04/20/12	< 200	---	330	---	---	< 1	< 1	< 1	< 1	< 2	2.4	21	4.2	< 2	< 2
MW-18 MID	10/18/12	96	---	170	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	49	3.6	< 1	< 1

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NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
MW-19 MID	11/26/96	---	---	---	---	---	48	<0.50	17	1.8	7.7	600	---	---	---	---
MW-19 MID	07/16/97	<100	---	<500	---	---	<0.50	<0.50	<0.50	<1	9.1	810	---	---	---	---
MW-19 MID	01/05/98	<100	---	<500	---	---	<5	<50	<5	<15	<5	1,400	---	---	---	---
MW-19 MID	05/27/98	500	---	---	---	---	<5	<0.50	<5	<10	14	590	---	---	---	---
MW-19 MID	08/26/98	514	---	---	---	233	<2.5	<2.5	<2.5	<2.5	11	779	---	---	---	---
MW-19 MID	11/17/98	491	---	---	---	<100	<5	<5	<5	<5	11	850	---	---	---	---
MW-19 MID	02/03/99	<10000	---	<500	---	---	<10	<10	<10	<20	<20	1,300	---	---	---	---
MW-19 MID	05/06/99	540	---	<500	---	---	42	<1	<1	<1	<2.5	1,500	---	---	---	---
MW-19 MID	08/10/99	600	---	<1000	---	---	<0.50	<1	<1	<1	6.8	980	---	---	---	---
MW-19 MID	11/17/99	1,100	---	---	---	310	26	<5	<5	<5	<5	1,100	---	---	---	---
MW-19 MID	02/29/00	2,000	---	---	---	1,800	530	<5	<5	<5	<5	1,100	---	---	---	---
MW-19 MID	05/17/00	5,200	---	---	---	5,100	1,900	<25	<25	<25	<25	2,600	---	---	---	---
MW-19 MID	08/29/00	2,700	---	---	---	19,000	560	<10	<10	<10	<10	3,200	---	---	---	---
MW-19 MID	11/30/00	2,100	---	---	---	1,200	520	3.6	0.90	6.1	<0.50	1,200	---	---	---	---
MW-19 MID	02/06/01	780	---	---	---	410	66	<10	<10	<10	<10	720	---	---	---	---
MW-19 MID	05/09/01	360	---	---	---	230	4.4	<2.5	<2.5	<2.5	6.5	490	---	---	---	---
MW-19 MID	09/19/01	<300	---	---	---	<100	<2.5	<2.5	<2.5	<2.5	8.2	200	---	---	---	---
MW-19 MID	11/06/01	<300	---	---	---	120	<1	<1	<1	<1	6.5	180	---	---	---	---
MW-19 MID	01/30/02	<300	---	---	---	150	<0.50	<0.50	<0.50	<0.50	5.1	33	---	---	---	---
MW-19 MID	04/10/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	4.3	11	---	---	---	---
MW-19 MID	10/23/02	<300	---	---	---	330	1.1	<0.50	<0.50	<0.50	3.5	7.4	---	---	---	---
MW-19 MID	04/10/03	92	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	2.5	4.3	---	---	---	---
MW-19 MID	10/07/03	84	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	2.3	1.0	---	---	---	---
MW-19 MID	04/21/04	99	---	---	---	150	<0.50	<0.50	<0.50	<0.50	2.6	<0.50	---	---	---	---
MW-19 MID	11/03/04	<100	---	---	---	200	<0.50	<0.50	<0.50	<0.50	2.0	0.81	---	---	---	---
MW-19 MID	05/06/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-19 MID	11/03/05	68	---	---	---	140	<0.50	<0.50	<0.50	<0.50	4.2	1.2	---	---	---	---
MW-19 MID	05/03/06	76	---	---	---	110	<0.50	<0.50	<0.50	<0.50	13	2.2	---	---	---	---
MW-19 MID	12/06/06	<50	---	---	---	260	<0.50	<0.50	<0.50	<0.50	1.3	<0.50	---	---	---	---
MW-19 MID	05/02/07	61	---	---	---	200	<0.50	<0.50	<0.50	<0.50	2.2	1.1	---	---	---	---
MW-19 MID	11/13/07	57	---	---	---	130	<0.50	<0.50	<0.50	<0.50	2.9	0.86	---	---	---	---
MW-19 MID	04/17/08	<50	---	---	---	110	<0.50	<0.50	<0.50	<0.50	3.0	1.2	---	---	---	---
MW-19 MID	10/17/08	<50	---	---	---	190	<0.50	<0.50	<0.50	<0.50	3.2	1.3	---	---	---	---
MW-19 MID	04/20/09	<50	---	---	---	120	<0.50	<0.50	<0.50	<0.50	3.8	0.81	66	9.8	<1	<1
MW-19 MID	10/21/09	<50	---	---	---	140	<0.50	<0.50	<0.50	<0.50	5.0	0.79	130	16	<1	<1
MW-19 MID	05/26/10	<50	---	---	---	120	<0.50	<0.50	<0.50	<0.50	3.1	<0.50	<10	12	<1	<1
MW-19 MID	10/06/10	62	---	---	---	140	<0.50	<0.50	<0.50	<0.50	3.5	0.91	130	19	<1	<1
MW-19 MID	04/12/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	3.2	0.81	67	14	<1	<1
MW-19 MID	10/11/11	<50	---	---	---	130	<0.50	<0.50	<0.50	<0.50	3.2	0.67	110	11	<1	<1
MW-19 MID	04/18/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	4.7	1	290	22	< 1	< 1
MW-19 MID	10/17/12	< 50	---	77	---	---	< 0.5	< 0.5	< 0.5	< 0.5	5.3	1.1	360	28	< 1	< 1
MW-20 MID	11/22/96	---	---	---	---	---	<0.50	<0.50	<0.50	1.5	66	36	---	---	---	---
MW-20 MID	07/11/97	<100	---	<500	---	---	<0.50	<0.50	<0.50	<1	33	13	---	---	---	---
MW-20 MID	01/05/98	<100	---	<500	---	---	<0.50	<0.50	<0.50	<1.5	17	9.2	---	---	---	---
MW-20 MID	05/27/98	<300	---	---	---	---	<0.50	<0.50	<0.50	<1	35	22	---	---	---	---
MW-20 MID	11/16/98	<300	---	---	---	<100	14	41	4.8	30	31	33	---	---	---	---
MW-20 MID	05/07/99	<500	---	<500	---	---	5.6	22	1.7	9.8	22	13	---	---	---	---
MW-20 MID	11/16/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	21	19	---	---	---	---
MW-20 MID	05/19/00	<300	---	---	---	220	<0.50	<0.50	<0.50	<0.50	22	11	---	---	---	---
MW-20 MID	11/28/00	<300	---	---	---	340	<0.50	<0.50	<0.50	<0.50	17	8.1	---	---	---	---
MW-20 MID	05/09/01	<300	---	---	---	180	<50	<50	<50	<50	2,200	1,300	---	---	---	---
MW-20 MID	09/19/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	23	11	---	---	---	---
MW-20 MID	11/07/01	<300	---	---	---	170	<0.50	<0.50	<0.50	<0.50	23	14	---	---	---	---
MW-20 MID	04/11/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	17	12	---	---	---	---
MW-20 MID	10/24/02	<300	---	---	---	220	<0.50	<0.50	<0.50	<0.50	20	20	---	---	---	---
MW-20 MID	04/10/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	17	11	---	---	---	---
MW-20 MID	10/08/03	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	29	19	---	---	---	---
MW-20 MID	04/21/04	56	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	27	18	---	---	---	---
MW-20 MID	11/05/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	23	15	---	---	---	---
MW-20 MID	05/05/05	97	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	33	57	---	---	---	---
MW-20 MID	11/03/05	58	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	25	46	---	---	---	---
MW-20 MID	05/03/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	21	32	---	---	---	---
MW-20 MID	12/07/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	21	25	---	---	---	---
MW-20 MID	05/05/07	59	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	20	25	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
MW-20 MID	11/14/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	20	23	---	---	---	---
MW-20 MID	04/17/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	15	21	---	---	---	---
MW-20 MID	10/17/08	<50	---	---	---	100	<0.50	<0.50	<0.50	<0.50	17	18	---	---	---	---
MW-20 MID	04/22/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	17	16	28	11	<1	<1
MW-20 MID	10/21/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	16	18	32	14	<1	<1
MW-20 MID	05/27/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	18	16	<10	12	<1	<1
MW-20 MID	10/06/10	51	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	15	19	40	13	<1	<1
MW-20 MID	04/12/11	51	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	17	18	<10	17	<1	<1
MW-20 MID	10/11/11	<50	---	---	---	170	<0.50	<0.50	<0.50	<0.50	13	17	38	11	<1	<1
MW-20 MID	04/19/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	15	12	26	9.9	< 1	< 1
MW-20 MID	10/17/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	6.8	7.6	12	6.8	< 1	< 1
MW-21 MID	05/07/99	<500	---	590	---	---	<1	<1	<1	<1	75	39	---	---	---	---
MW-21 MID	11/29/00	<300	---	---	---	4,600	3.6	<0.50	<0.50	<0.50	16	62	---	---	---	---
MW-21 MID	05/09/01	<300	---	---	---	1,900	<0.50	<0.50	<0.50	<0.50	9.8	50	---	---	---	---
MW-21 MID	11/06/01	<300	---	---	---	1,400	0.50	<0.50	<0.50	<0.50	12	69	---	---	---	---
MW-21 MID	04/10/02	<300	---	---	---	1,100	<0.50	<0.50	<0.50	<0.50	8.6	71	---	---	---	---
MW-21 MID	10/23/02	<300	---	---	---	1,400	<0.50	<0.50	<0.50	<0.50	7.4	61	---	---	---	---
MW-21 MID	10/07/03	87	---	---	---	290	<0.50	<0.50	<0.50	<0.50	5.6	55	---	---	---	---
MW-21 MID	05/06/05	62	---	---	---	100	<0.50	<0.50	<0.50	<0.50	2.8	25	---	---	---	---
MW-21 MID	05/03/06	<50	---	---	---	140	<0.50	<0.50	<0.50	<0.50	1.5	13	---	---	---	---
MW-21 MID	05/02/07	<50	---	---	---	110	<0.50	<0.50	<0.50	<0.50	0.73	3.3	---	---	---	---
MW-21 MID	04/17/08	<50	---	---	---	100	<0.50	<0.50	<0.50	<0.50	0.88	6.4	---	---	---	---
MW-21 MID	04/20/09	<100	---	---	---	530	<0.50	<0.50	<0.50	<0.50	2.3	1.9	25	2.3	<1	<1
MW-21 MID	05/26/10	<100	---	---	---	420	<0.50	<0.50	<0.50	<0.50	2.9	1.5	<10	3.2	<1	<1
MW-21 MID	04/12/11	72	---	---	---	350	<0.50	<0.50	<0.50	<0.50	3.8	2.4	32	3.0	<1	<1
MW-21 MID	04/18/12	< 100	---	140	---	---	< 0.5	< 0.5	< 0.5	< 0.5	2.2	< 0.5	17	< 1	< 1	< 1
MW-22 MID	11/21/96	46	---	<500	<500	---	<0.50	<0.50	<0.50	<1.5	4.7	<5	---	---	---	---
MW-22 MID	07/10/97	<50	---	650	<400	---	<5	<5	<5	<5	15	<5	---	---	---	---
MW-22 MID	01/06/98	---	---	400	<100	---	<5	<5	<5	<1	<5	<5	---	---	---	---
MW-22 MID	05/21/98	<300	---	---	---	---	<0.50	<0.50	<0.50	<1	0.90	<0.50	---	---	---	---
MW-22 MID	08/26/98	<300	---	---	---	545	<0.50	<0.50	<0.50	<0.50	2.1	<0.50	---	---	---	---
MW-22 MID	11/04/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	1.6	<0.50	---	---	---	---
MW-22 MID	02/02/99	<500	---	<500	---	---	1.1	2.1	0.56	2.1	3.2	0.69	---	---	---	---
MW-22 MID	05/07/99	---	---	<500	---	---	8.0	3.4	1.7	7.5	<1	6.9	---	---	---	---
MW-22 MID	05/26/99	<300	---	---	---	322	<0.50	<0.50	<0.50	<0.50	3.7	4.7	---	---	---	---
MW-22 MID	08/10/99	<500	---	<1000	---	---	3.1	6.2	<1	4.9	8.9	<1	---	---	---	---
MW-22 MID	11/18/99	<300	---	---	---	260	<0.50	<1	<0.50	<0.50	19	0.80	---	---	---	---
MW-22 MID	02/29/00	<300	---	---	---	470	<0.50	<0.50	<0.50	<0.50	29	3.3	---	---	---	---
MW-22 MID	05/16/00	<300	---	---	---	380	<0.50	<0.50	<0.50	<0.50	16	2.4	---	---	---	---
MW-22 MID	08/29/00	<300	---	---	---	4,400	<0.50	<0.50	<0.50	<0.50	45	14	---	---	---	---
MW-22 MID	11/28/00	<300	---	---	---	1,100	<0.50	<0.50	<0.50	<0.50	88	13	---	---	---	---
MW-22 MID	11/29/00	<300	---	---	---	870	<0.50	<0.50	<0.50	<0.50	88	13	---	---	---	---
MW-22 MID	02/06/01	<300	---	---	---	460	<1	<1	<1	<1	120	14	---	---	---	---
MW-22 MID	05/09/01	<300	---	---	---	360	<0.50	<0.50	<0.50	<0.50	110	12	---	---	---	---
MW-22 MID	05/09/01	<300	---	---	---	230	<0.50	<0.50	<0.50	<0.50	83	11	---	---	---	---
MW-22 MID	09/19/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	30	4.5	---	---	---	---
MW-22 MID	11/07/01	<300	---	---	---	130	<0.50	<0.50	<0.50	<0.50	36	6.5	---	---	---	---
MW-22 MID	01/30/02	<300	---	---	---	430	<0.50	<0.50	<0.50	<0.50	30	19	---	---	---	---
MW-22 MID	04/12/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	22	11	---	---	---	---
MW-22 MID	07/30/02	<300	---	---	---	210	<0.50	<0.50	<0.50	<0.50	24	8.7	---	---	---	---
MW-22 MID	10/24/02	<300	---	---	---	<100	<0.50	<1	<1	<1	18	5.4	---	---	---	---
MW-22 MID	01/28/03	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	18	4.8	---	---	---	---
MW-22 MID	04/11/03	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	9.1	2.4	---	---	---	---
MW-22 MID	10/11/03	---	---	---	---	380	<0.50	<0.50	<0.50	<0.50	12	2.8	---	---	---	---
MW-22 MID	04/22/04	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	19	4.8	21	3.2	<2	<2
MW-22 MID	07/21/04	180	---	---	---	280	<0.50	<0.50	<0.50	<0.50	---	11	---	---	---	---
MW-22 MID	11/04/04	---	---	---	---	240	<0.50	<0.50	<0.50	<0.50	31	11	17	2.8	<2	<2
MW-22 MID	03/02/05	---	---	---	---	180	<0.50	<1	<1	<1	---	15	---	---	---	---
MW-22 MID	05/07/05	---	---	---	---	290	<0.50	<0.50	<0.50	<0.50	1.8	30	<10	<2	<2	<2
MW-22 MID	11/08/05	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	2.1	30	13	<2	<2	<2
MW-22 MID	05/05/06	---	---	---	---	500	<0.50	<0.50	<0.50	<0.50	6.1	14	<10	<2	<2	<2
MW-22 MID	12/05/06	---	---	---	---	130	<0.50	<0.50	<0.50	<0.50	5.3	16	13	<2	<2	<2
MW-22 MID	05/02/07	---	---	---	---	200	<0.50	<0.50	<0.50	<0.50	4.4	14	17	<2	<2	<2
MW-22 MID	11/14/07	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	10	15	19	2.1	<2	<2

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NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
MW-22 MID	04/17/08	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	8.3	11	18	<2	<2	<2
MW-22 MID	10/16/08	---	110	---	---	---	<0.50	<0.50	<0.50	<0.50	9.7	16	16	2.1	<2	<2
MW-22 MID	02/12/09	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	15	18	22	3.1	<2	<2
MW-22 MID	04/22/09	---	110	---	---	---	<0.50	<0.50	<0.50	<0.50	11	23	22	<2	<2	<2
MW-22 MID	07/20/09	---	150	---	---	---	<0.50	<0.50	<0.50	<0.50	11	19	34	2.9	<2	<2
MW-22 MID	10/23/09	---	130	---	---	---	<0.50	<0.50	<0.50	<0.50	13	16	27	<2	<2	<2
MW-22 MID	01/13/10	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	9.7	13	24	2.1	<2	<2
MW-22 MID	04/13/10	---	220	---	---	---	<0.50	<0.50	<0.50	<0.50	11	8.7	23	1.8 J	<2	<2
MW-22 MID	10/04/10	---	140	---	---	---	<0.50	---	---	---	10	13	<10	---	---	---
MW-22 MID	01/10/11	---	120	---	---	---	<0.50	<0.50	<0.50	<0.50	4.8	6.2	10	0.82 J	<2	<2
MW-22 MID	04/14/11	---	120	---	---	---	<0.50	<0.50	<0.50	<0.50	6.5	10	<10	0.76 J	<2	<2
MW-22 MID	07/11/11	---	100	---	---	---	<0.50	<0.50	<0.50	<0.50	5.5	7.8	13	0.48 J	<2	<2
MW-22 MID	10/13/11	---	120	---	---	---	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	---	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	4.4	6.6	12	0.45 J	< 2.0	< 2.0
MW-22 MID	04/18/12	---	120	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	7.1	10	21	0.69 J	< 2.0	< 2.0
MW-22 MID	07/09/12	---	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	4.4	5.8	< 10	0.43 J	< 2.0	< 2.0
MW-22 MID	10/18/12	---	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	6.4	12	< 10	0.85 J	< 2.0	< 2.0
MW-23 MID	11/21/96	1,400	---	<500	<500	---	62	<0.50	18	3.5	0.60	---	---	---	---	---
MW-23 MID	07/09/97	---	---	---	---	---	160	<1	21	26	---	---	---	---	---	---
MW-23 MID	07/09/97	140	---	970	<860	---	---	---	---	---	---	---	---	---	---	---
MW-23 MID	01/06/98	---	---	<100	<100	---	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---	---
MW-23 MID	05/20/98	<300	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-23 MID	11/04/98	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
MW-23 MID	05/27/99	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
MW-23 MID	11/18/99	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
MW-23 MID	05/16/00	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
MW-23 MID	11/29/00	<300	---	---	---	2,200	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
MW-23 MID	05/10/01	<300	---	---	---	1,600	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
MW-23 MID	11/07/01	<300	---	---	---	600	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
MW-23 MID	04/10/02	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
MW-23 MID	10/23/02	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.30	---	<5	---	---	---	---
MW-23 MID	04/10/03	---	---	---	---	<100	<1	<1	<1	<2	<3	<3	---	---	---	---
MW-23 MID	10/08/03	---	---	---	---	160	<0.30	<0.30	<0.30	<0.30	---	<5	---	---	---	---
MW-23 MID	04/22/04	---	---	---	---	<100	<0.30	<0.30	<0.30	<0.30	---	<5	---	---	---	---
MW-23 MID	11/04/04	---	---	---	---	<100	<0.30	<0.30	<0.30	<0.30	---	<5	---	---	---	---
MW-23 MID	05/10/05	---	---	---	---	650	0.40	0.79	0.41	<0.30	---	<5	---	---	---	---
MW-23 MID	05/03/06	---	---	---	---	6,000	<0.30	<0.30	<0.30	0.32	---	<5	---	---	---	---
MW-23 MID	12/06/06	---	---	---	---	240	<0.50	<0.50	<0.50	<1	---	<5	---	---	---	---
MW-23 MID	05/02/07	---	---	---	---	340	<0.50	<0.50	<0.50	<1	---	<5	---	---	---	---
MW-23 MID	11/14/07	---	---	---	---	<100	<0.50	<0.50	<0.50	<1	---	<5	---	---	---	---
MW-23 MID	04/16/08	---	---	---	---	120	<0.50	<0.50	<0.50	<1	---	<5	---	---	---	---
MW-23 MID	10/15/08	---	150	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-23 MID	04/21/09	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	---	<0.50	---	---	---	---
MW-23 MID	10/23/09	---	150	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-23 MID	04/13/10	---	1,000	---	---	---	<0.50	<0.50	<0.50	<0.50	---	<0.50	4.8 J	<2	<2	<2
MW-23 MID	10/04/10	---	1,400	---	---	---	<0.50	---	---	---	<0.50	0.73	<10	---	---	---
MW-23 MID	04/14/11	---	1,800	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	2.9	<10	<2	<2	<2
MW-23 MID	10/13/11	---	1,900	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	10	14	<2	<2	<2
MW-23 MID	04/19/12	---	1,400	---	---	---	< 0.50	< 0.50	< 0.50	0.32 J	0.50	9.9	19	< 2.0	< 2.0	< 2.0
MW-23 MID	10/19/12	---	3,600	---	---	---	< 0.50	< 0.50	0.25 J	0.43 J	0.50	4.3	< 10	< 2.0	< 2.0	< 2.0
MW-24	11/21/96	92	---	<500	<500	---	<0.50	<0.50	<0.50	<1.5	<0.50	---	---	---	---	---
MW-24	07/09/97	100	---	1,400	<1000	---	11	<5	<5	<5	<5	<5	---	---	---	---
MW-24	01/06/98	700	---	<100	<100	---	93	<0.50	4.0	<1	<0.50	<0.50	---	---	---	---
MW-24	05/20/98	<300	---	---	---	---	<0.30	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
MW-24	11/04/98	<300	---	---	---	129	11	2.7	2.1	18	<0.50	<0.50	---	---	---	---
MW-24	05/26/99	<300	---	---	---	142	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-24	11/18/99	<300	---	---	---	<100	<0.50	<1	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-24	05/16/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-24	11/29/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-24	05/09/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-24	11/07/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-24	04/10/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-24	10/23/02	<300	---	---	---	<100	<0.50	<1	<1	<1	<0.50	<1	---	---	---	---
MW-24	04/11/03	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
MW-24	10/08/03	---	---	---	---	140	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-24	04/22/04	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-24	11/04/04	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-24	05/07/05	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-24	11/08/05	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-24	05/03/06	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-24	12/06/06	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-24	05/03/07	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-24	11/14/07	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-24	04/17/08	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-24	10/16/08	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-24	04/21/09	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-24	10/23/09	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-24	04/13/10	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-24	10/04/10	---	<100	---	---	---	<0.50	---	---	---	<0.50	0.51	<10	---	---	---
MW-24	04/13/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-24	10/13/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-24	04/18/12	---	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	2.6	6.3 J	< 2.0	< 2.0	< 2.0
MW-24	10/16/12	---	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	1.7	< 10	< 2.0	< 2.0	< 2.0
MW-25	11/21/96	<50	---	<500	<500	---	<0.50	<0.50	<0.50	<1.5	17	<5	---	---	---	---
MW-25	07/09/97	<50	---	660	<400	---	<5	<5	<5	<5	17	<5	---	---	---	---
MW-25	01/06/98	<500	---	<100	<100	---	<0.50	<0.50	<0.50	<1	15	<0.50	---	---	---	---
MW-25	05/21/98	<300	---	---	---	---	<0.30	<0.50	<0.50	<1	8.6	<0.50	---	---	---	---
MW-25	11/04/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	11	<0.50	---	---	---	---
MW-25	05/06/99	<500	---	<500	---	---	1.9	1.2	0.68	3.3	14	1.3	---	---	---	---
MW-25	05/26/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	10	<0.50	---	---	---	---
MW-25	11/18/99	<300	---	---	---	<100	<0.50	<1	<0.50	<0.50	27	0.70	---	---	---	---
MW-25	05/16/00	<300	---	---	---	---	320	<0.50	<0.50	<0.50	50	4.7	---	---	---	---
MW-25	11/28/00	<300	---	---	---	---	320	<0.50	<0.50	<0.50	62	11	---	---	---	---
MW-25	11/29/00	<300	---	---	---	<100	<0.50	0.60	<0.50	0.80	73	14	---	---	---	---
MW-25	05/09/01	<300	---	---	---	---	240	<0.50	<0.50	<0.50	45	7.1	---	---	---	---
MW-25	05/09/01	<300	---	---	---	---	150	<0.50	<0.50	<0.50	36	6.2	---	---	---	---
MW-25	11/07/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	39	9.3	---	---	---	---
MW-25	04/12/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	23	9.4	---	---	---	---
MW-25	10/24/02	<300	---	---	---	<100	<0.50	<1	<1	<1	15	5.1	---	---	---	---
MW-25	04/11/03	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	31	8.6	---	---	---	---
MW-25	10/11/03	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	13	3.4	---	---	---	---
MW-25	04/22/04	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	13	3.5	<10	2.4	<2	<2
MW-25	11/04/04	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	17	3.4	<10	2.9	<2	<2
MW-25	05/07/05	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	2.8	5.0	<10	<2	<2	<2
MW-25	11/08/05	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	0.95	1.9	<10	<2	<2	<2
MW-25	05/05/06	---	---	---	---	---	390	<0.50	<0.50	<0.50	4.3	10	<10	<2	<2	<2
MW-25	12/05/06	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	3.0	3.5	<10	<2	<2	<2
MW-25	05/03/07	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	2.8	2.3	<10	<2	<2	<2
MW-25	11/14/07	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	1.6	1.3	<10	<2	<2	<2
MW-25	04/17/08	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	4.5	4.3	<10	<2	<2	<2
MW-25	10/16/08	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	8.9	6.1	<10	2.3	<2	<2
MW-25	04/22/09	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	8.3	2.9	<10	<2	<2	<2
MW-25	10/23/09	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	4.1	0.83	<10	<2	<2	<2
MW-25	04/13/10	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	10	2.7	<10	2.5	<2	<2
MW-25	10/04/10	---	<100	---	---	---	<0.50	---	---	---	2.0	0.35 J	<10	---	---	---
MW-25	04/12/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	7.1	1.4	<10	0.71 J	<2	<2
MW-25	10/13/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	1.4	0.31 J	<10	<2	<2	<2
MW-25	04/17/12	---	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	1.3	< 0.50	< 10	< 2.0	< 2.0	< 2.0
MW-25	10/16/12	---	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	3.4	0.67	< 10	< 2.0	< 2.0	< 2.0
MW-26	11/21/96	6,700	---	<500	<500	---	460	400	200	340	0.70	---	---	---	---	---
MW-26	07/10/97	<50	---	270	<200	---	<5	<5	<5	<5	<5	340	---	---	---	---
MW-26	01/06/98	<500	---	<100	<100	---	<2.5	<2.5	<2.5	<5	<2.5	407	---	---	---	---
MW-26	05/21/98	<300	---	---	---	---	<0.30	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
MW-26	11/04/98	<300	---	---	---	<100	<0.50	1.3	<0.50	1.1	<0.50	146	---	---	---	---
MW-26	05/26/99	8,260	---	---	---	---	8,790	3,000	170	400	1,000	<0.50	380	---	---	---
MW-26	11/18/99	<300	---	---	---	<100	<0.50	<1	<0.50	<0.50	<0.50	3.4	---	---	---	---
MW-26	05/16/00	8,400	---	---	---	---	7,000	2,300	<5	410	1,480	<5	76	---	---	---
MW-26	11/29/00	1,800	---	---	---	---	1,000	440	15	69	240	<10	69	---	---	---

**TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012**

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
MW-26	05/10/01	<300	---	---	---	<100	2.1	<0.50	<0.50	<0.50	<0.50	1.9	---	---	---	---
MW-26	11/07/01	1,700	---	---	---	3,700	370	79	37	171	<0.50	35	---	---	---	---
MW-26	04/11/02	4,000	---	---	---	5,300	1,200	<5	230	528	<5	65	---	---	---	---
MW-26	10/24/02	2,100	---	---	---	5,800	970	<5	<5	262	<2.5	74	---	---	---	---
MW-26	04/11/03	---	---	---	---	1,390	858	<0.50	243	79	<0.50	108	---	---	---	---
MW-26	10/11/03	---	---	---	---	900	4.6	<0.50	5.7	0.54	<0.50	29	---	---	---	---
MW-26	04/22/04	---	---	---	---	570	<0.50	<0.50	<0.50	<0.50	<0.50	140	18	<2	<2	<2
MW-26	11/04/04	---	---	---	---	260	<0.50	<0.50	<0.50	<0.50	<0.50	110	23	<2	<2	<2
MW-26	05/07/05	---	---	---	---	170	<0.50	<0.50	3.1	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-26	11/08/05	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-26	05/05/06	---	---	---	---	120	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-26	12/06/06	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.9	<10	<2	<2	<2
MW-26	05/03/07	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	2.0	<10	<2	<2	<2
MW-26	11/14/07	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	4.4	<10	<2	<2	<2
MW-26	04/17/08	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.99	<10	<2	<2	<2
MW-26	10/16/08	---	150	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	5.0	<10	<2	<2	<2
MW-26	04/22/09	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-26	10/23/09	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	2.0	<10	<2	<2	<2
MW-26	04/13/10	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	0.66	<10	<2	<2	<2
MW-26	10/04/10	---	<100	---	---	---	1.6	---	---	---	<0.50	0.68	<10	---	---	---
MW-26	04/13/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	2.3	<10	<2	<2	<2
MW-26	10/13/11	---	<100	---	---	---	1.4	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-26	04/17/12	---	770	---	---	---	1.1	<0.50	0.32 J	0.57 J	0.50	3.7	9.7 J	<2.0	<2.0	<2.0
MW-26	10/16/12	---	1,400	---	---	---	3.9	0.50	2.2	0.69 J	0.50	1.4	5.6 J	<2.0	<2.0	<2.0
MW-27	11/22/96	<50	---	<500	<500	---	180	12	25	50	<0.50	---	---	---	---	---
MW-27	07/10/97	420	---	400	<400	---	1,400	28	53	253	<5	79	---	---	---	---
MW-27	01/06/98	1,500	---	<100	100	---	940	<5	70	20	20	90	---	---	---	---
MW-27	05/21/98	<300	---	---	---	---	<0.30	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
MW-27	11/04/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-27	05/26/99	<300	---	---	---	<100	<0.50	<0.50	0.71	1.3	<0.50	1.1	---	---	---	---
MW-27	11/18/99	7,200	---	---	---	6,400	1,700	8.6	100	1,110	<0.50	170	---	---	---	---
MW-27	05/16/00	<300	---	---	---	<100	1.7	<0.50	<0.50	<0.50	<0.50	5.0	---	---	---	---
MW-27	11/29/00	<300	---	---	---	<100	0.90	0.70	0.70	1.0	0.60	17	---	---	---	---
MW-27	05/10/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-27	11/07/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-27	04/11/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.90	---	---	---	---
MW-27	10/24/02	<300	---	---	---	<100	<0.50	<1	<1	<1	<0.50	9.7	---	---	---	---
MW-27	04/11/03	---	---	---	---	<100	<0.50	<0.50	2.8	<0.50	<0.50	17	---	---	---	---
MW-27	10/11/03	---	---	---	---	150	6.2	<0.50	0.79	<0.50	<0.50	8.9	---	---	---	---
MW-27	04/22/04	---	---	---	---	1,600	130	<0.50	16	<0.50	<0.50	65	20	<2	<2	<2
MW-27	11/06/04	---	---	---	---	540	1.6	<0.50	17	<0.50	<0.50	65	21	<2	<2	<2
MW-27	05/07/05	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-27	11/08/05	---	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.59	<10	<2	<2	<2
MW-27	05/05/06	---	---	---	---	280	<0.50	<0.50	<0.50	<0.50	<0.50	2.0	<10	<2	<2	<2
MW-27	12/06/06	---	---	---	---	180	<0.50	<0.50	<0.50	<0.50	<0.50	2.3	<10	<2	<2	<2
MW-27	05/03/07	---	---	---	---	110	<0.50	<0.50	<0.50	<0.50	<0.50	1.5	<10	<2	<2	<2
MW-27	11/14/07	---	---	---	---	<100	1.3	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-27	04/18/08	---	---	---	---	<100	2.9	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-27	10/17/08	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-27	04/22/09	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-27	10/26/09	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	0.54	<10	<2	<2	<2
MW-27	04/13/10	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	7.5 J	<2	<2	<2
MW-27	10/04/10	---	<100	---	---	---	<0.50	---	---	---	<0.50	<0.50	<10	---	---	---
MW-27	04/12/11	---	430	---	---	---	<0.50	<0.50	0.35 J	3.2	<0.50	<0.50	<10	<2	<2	<2
MW-27	10/13/11	---	180	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
MW-27	04/17/12	---	<100	---	---	---	<0.50	<0.50	<0.50	<1.0	0.50	<0.50	<10	<2.0	<2.0	<2.0
MW-27	10/16/12	---	170	---	---	---	<0.50	<0.50	<0.50	<1.0	0.50	5.0	12	<2.0	<2.0	<2.0
MW-28	11/27/96	1,500	---	<500	<500	---	<2.5	<2.5	<2.5	<5	<2.5	---	---	---	---	---
MW-28	07/10/97	220	---	2,200	<1900	---	<5	<5	<5	<5	<5	<5	---	---	---	---
MW-28	01/07/98	<500	---	<100	<100	---	<0.50	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
MW-28	05/21/98	<300	---	---	---	---	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
MW-28	11/05/98	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
MW-28	05/26/99	<300	---	---	---	<100	0.33	<0.30	<0.30	0.70	---	---	---	---	---	---
MW-28	11/18/99	<300	---	---	---	330	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-1	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toulene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
MW-28	05/17/00	<300	---	---	---	250	<0.30	<0.30	<0.30	<0.60	---	---	---	---	---	---
MW-28	12/01/00	<300	---	---	---	470	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
MW-28	05/10/01	<300	---	---	---	3,000	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
MW-28	11/08/01	300	---	---	---	160	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
MW-28	04/12/02	<300	---	---	---	170	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
MW-29	05/21/98	84,700	---	---	---	---	313	46	314	366	---	---	---	---	---	---
MW-29	11/05/98	28,600	---	---	---	19,600	87	<0.30	2.2	31	---	---	---	---	---	---
MW-29	05/27/99	1,810	---	---	---	2,540	150	<0.60	160	23	---	---	---	---	---	---
MW-29	11/18/99	5,100	---	---	---	17,000	220	<0.30	190	21	---	---	---	---	---	---
MW-29	05/17/00	1,100	---	---	---	3,400	23	<0.30	35	7.6	---	---	---	---	---	---
MW-29	11/30/00	2,400	---	---	---	14,000	120	<0.30	160	4.4	---	<5	---	---	---	---
MW-29	05/09/01	<300	---	---	---	<100	<0.30	<0.30	<0.30	<0.60	---	<5	---	---	---	---
MW-29	11/07/01	1,500	---	---	---	1,500	14	<0.30	3.7	2.1	---	8.3	---	---	---	---
MW-29	02/01/02	---	---	---	---	---	100	7.3	160	990	<0.50	<0.50	---	---	---	---
MW-29	04/11/02	860	---	---	---	5,600	4.1	<0.30	4.3	12	---	<5	---	---	---	---
MW-6	11/22/96	---	---	---	---	---	<0.50	<0.50	<0.50	<1.5	130	70	---	---	---	---
MW-6	07/16/97	<100	---	<500	---	---	<0.50	<0.50	<0.50	<1	32	62	---	---	---	---
MW-6	01/05/98	<100	---	<500	---	---	<0.50	<0.50	<0.50	<1.5	11	39	---	---	---	---
MW-6	05/26/98	<300	---	---	---	---	<2.5	<2.5	<2.5	<5	118	107	---	---	---	---
MW-6	11/17/98	<300	---	---	---	<100	4.8	12	1.5	9.9	9.2	13	---	---	---	---
MW-6	05/07/99	<500	---	<500	---	---	<0.50	1.5	<0.50	<0.50	83	120	---	---	---	---
MW-6	11/16/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	20	18	---	---	---	---
MW-6	05/19/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	14	12	---	---	---	---
MW-6	11/28/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	12	3.0	---	---	---	---
MW-6	05/09/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	9.8	11	---	---	---	---
MW-6	11/07/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	11	6.2	---	---	---	---
MW-6	04/11/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	7.6	6.0	---	---	---	---
MW-6	10/24/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	9.4	4.6	---	---	---	---
MW-6	04/10/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	7.4	3.2	---	---	---	---
MW-6	10/08/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	9.1	2.5	---	---	---	---
MW-6	04/21/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	4.9	2.8	---	---	---	---
MW-6	11/05/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	4.0	4.0	---	---	---	---
MW-6	05/05/05	89	---	---	---	100	<0.50	<0.50	<0.50	<0.50	16	61	---	---	---	---
MW-6	11/03/05	<50	---	---	---	120	<0.50	<0.50	<0.50	<0.50	9.9	30	---	---	---	---
MW-6	05/03/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	6.8	2.5	---	---	---	---
MW-6	12/07/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	7.1	2.7	---	---	---	---
MW-6	05/05/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	4.0	2.5	---	---	---	---
MW-6	11/14/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	3.4	2.3	---	---	---	---
MW-6	04/17/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	2.2	2.7	---	---	---	---
MW-6	10/17/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	2.5	4.0	---	---	---	---
MW-6	04/22/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	1.6	0.69	<10	<1	<1	<1
MW-6	10/21/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	1.5	1.0	<10	<1	<1	<1
MW-6	05/27/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	1.5	1.9	<10	<1	<1	<1
MW-6	10/06/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	2.7	2.0	<10	<1	<1	<1
MW-6	04/12/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	1.7	2.3	<10	<1	<1	<1
MW-6	10/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	1.2	1.0	<10	<1	<1	<1
MW-6	04/19/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	0.86	< 0.5	< 10	< 1	< 1	< 1
MW-6	10/17/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
MW-7	11/25/96	---	---	---	---	---	3.5	<1	16	<3	6.8	1,000	---	---	---	---
MW-7	07/14/97	540	---	<500	---	---	88	<3	<3	<3	<3	790	---	---	---	---
MW-7	01/08/98	150	---	<500	---	---	9.0	<0.50	<0.50	<1.5	4.1	400	---	---	---	---
MW-7	05/26/98	400	---	---	---	---	<5	<5	<5	7.0	10	380	---	---	---	---
MW-7	11/17/98	<300	---	---	---	<100	5.4	7.0	<5	<5	<5	351	---	---	---	---
MW-7	05/07/99	<500	---	<500	---	---	0.79	2.2	<0.50	0.71	6.8	540	---	---	---	---
MW-7	11/16/99	540	---	---	---	<100	8.5	<0.50	<0.50	<0.50	4.7	670	---	---	---	---
MW-7	05/17/00	590	---	---	---	880	<5	<5	<5	<5	14	900	---	---	---	---
MW-7	11/30/00	590	---	---	---	320	4.1	<0.50	<0.50	<0.50	5.4	640	---	---	---	---
MW-7	05/09/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	3.1	36	---	---	---	---
MW-7	11/06/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	2.4	8.2	---	---	---	---
MW-7	04/10/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	1.6	71	---	---	---	---
MW-7	10/23/02	<300	---	---	---	180	<0.50	<0.50	<0.50	<0.50	2.0	5.0	---	---	---	---
MW-7	04/10/03	57	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	1.6	1.3	---	---	---	---
MW-7	10/07/03	67	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	1.5	1.2	---	---	---	---
MW-7	04/21/04	62	---	---	---	120	<0.50	<0.50	<0.50	<0.50	0.68	1.4	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
MW-7	11/03/04	58	---	---	---	140	<0.50	<0.50	<0.50	<0.50	<0.50	0.85	---	---	---	---
MW-7	05/06/05	58	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.82	---	---	---	---
MW-7	11/03/05	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<1	<0.50	---	---	---	---
MW-7	05/03/06	<50	---	---	---	110	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-7	12/06/06	<50	---	---	---	270	<0.50	<0.50	<0.50	<0.50	0.65	1.5	---	---	---	---
MW-7	05/02/07	<50	---	---	---	160	<0.50	<0.50	<0.50	<0.50	0.64	0.83	---	---	---	---
MW-7	11/13/07	<50	---	---	---	120	<0.50	<0.50	<0.50	<0.50	0.57	0.83	---	---	---	---
MW-7	04/17/08	<50	---	---	---	110	<0.50	<0.50	<0.50	<0.50	<0.50	0.80	---	---	---	---
MW-7	10/17/08	<50	---	---	---	190	<0.50	<0.50	<0.50	<0.50	1.8	0.94	---	---	---	---
MW-7	04/20/09	<50	---	---	---	110	<0.50	<0.50	<0.50	<0.50	2.1	0.60	<10	2.9	<1	<1
MW-7	10/21/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	2.8	0.56	<10	2.0	<1	<1
MW-7	05/26/10	<50	---	---	---	110	<0.50	<0.50	<0.50	<0.50	0.87	<0.50	<10	5.5	<1	<1
MW-7	10/07/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	1.0	0.64	260	9.3	<1	<1
MW-7	04/12/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	1.4	<0.50	98	6.0	<1	<1
MW-7	10/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	0.99	<0.50	25	1.5	<1	<1
MW-7	04/18/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	1.4	< 0.5	< 10	< 1	< 1	< 1
MW-7	10/17/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	1.0	< 0.5	< 10	< 1	< 1	< 1
MW-8	11/26/96	---	---	---	---	---	4,400	<30	<30	<80	<30	26,000	---	---	---	---
MW-8	07/17/97	<100	---	520	---	---	<10	<10	<10	<20	<10	11,000	---	---	---	---
MW-8	01/02/98	<100	---	<500	---	---	<0.50	<0.50	<0.50	<1.5	<0.50	14	---	---	---	---
MW-8	05/20/98	400	---	---	---	---	<2.5	<2.5	<2.5	<5	<2.5	554	---	---	---	---
MW-8	11/17/98	<300	---	---	---	<100	2.4	6.0	0.80	4.6	<0.50	56	---	---	---	---
MW-8	05/07/99	<500	---	<500	---	---	<0.50	<0.50	<0.50	<0.50	<1	52	---	---	---	---
MW-8	11/18/99	<416	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	7.2	---	---	---	---
MW-8	05/17/00	<300	---	---	---	170	<0.50	<0.50	<0.50	<0.50	<0.50	3.0	---	---	---	---
MW-8	11/29/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	15	---	---	---	---
MW-8	02/06/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	380	---	---	---	---
MW-8	05/08/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	430	---	---	---	---
MW-8	09/19/01	790	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1,000	---	---	---	---
MW-8	01/30/02	1,700	---	---	---	<100	<10	<10	<10	<10	<10	1,900	---	---	---	---
MW-8	04/10/02	1,500	---	---	---	<100	11	<10	<10	<10	<10	2,200	---	---	---	---
MW-8	10/22/02	<300	---	---	---	<100	150	<10	12	<10	<10	750	---	---	---	---
MW-8	01/29/03	<300	---	---	---	<100	<1	<1	<1	<1	<1	190	---	---	---	---
MW-8	04/09/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	28	---	---	---	---
MW-8	07/30/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	13	---	---	---	---
MW-8	10/06/03	79	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	4.7	---	---	---	---
MW-8	01/28/04	100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	4.0	---	---	---	---
MW-8	04/20/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.61	---	---	---	---
MW-8	07/19/04	80	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.95	---	---	---	---
MW-8	11/02/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-8	02/02/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.8	---	---	---	---
MW-8	05/04/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	---	---	---	---
MW-8	08/02/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	2.4	---	---	---	---
MW-8	11/01/05	110	---	---	---	270	<0.50	<0.50	<0.50	4.2	<0.50	0.60	---	---	---	---
MW-8	02/27/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.65	---	---	---	---
MW-8	05/02/06	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<1	1.1	---	---	---	---
MW-8	09/19/06	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<1	1.6	---	---	---	---
MW-8	12/06/06	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<1	0.61	---	---	---	---
MW-8	03/13/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-8	05/04/07	<200	---	---	---	<100	<1	<1	<1	<1	<2	<1	---	---	---	---
MW-8	08/29/07	<200	---	---	---	<100	<1	<1	<1	<1	<2	<1	---	---	---	---
MW-8	11/13/07	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<1	1.9	---	---	---	---
MW-8	02/07/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.7	---	---	---	---
MW-8	04/18/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	3.3	---	---	---	---
MW-8	10/14/08	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<1	0.59	---	---	---	---
MW-8	04/23/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.0	2,000	<1	<1	<1
MW-8	10/21/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.69	570	<1	<1	<1
MW-8	05/27/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.62	<10	<1	<1	<1
MW-8	10/07/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.53	<1600	<1	<1	<1
MW-8	04/13/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1,100	<1	<1	<1
MW-8	10/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	970	<1	<1	<1
MW-8	04/19/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	71	< 1	< 1	< 1
MW-8	10/17/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	220	< 1	< 1	< 1
MW-9	11/26/96	---	---	---	---	---	18	<0.50	69	1.6	<0.50	<5	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
MW-9	07/17/97	1,400	---	2,900	---	---	40	<1	140	22	<1	<10	---	---	---	---
MW-9	01/08/98	1,100	---	570	---	---	19	0.74	55	2.4	<0.50	<5	---	---	---	---
MW-9	05/26/98	4,700	---	---	---	---	69	<0.30	51	97	<2.5	10	---	---	---	---
MW-9	11/18/99	1,800	---	---	---	4,500	24	<0.50	2.7	2.0	<0.50	<0.50	---	---	---	---
MW-9	05/19/00	1,300	---	---	---	3,900	12	<0.50	0.80	0.50	<0.50	1.8	---	---	---	---
MW-9	11/05/04	2,500	---	---	---	21,000	27	<0.50	0.84	0.52	<1	52	---	---	---	---
MW-9	05/06/05	780	---	---	---	3,300	2.3	<1	25	<1	<2	110	---	---	---	---
MW-9	11/01/05	1,700	---	---	---	5,400	9.3	<1	4.7	5.3	<2	120	---	---	---	---
MW-9	05/04/06	1,000	---	---	---	10,000	13	<0.50	2.2	1.4	<1	140	---	---	---	---
MW-9	12/08/06	1,400	---	---	---	14,000	16	<0.50	<0.50	<0.50	<0.50	160	---	---	---	---
MW-9	05/04/07	1,700	---	---	---	610,000	9.2	<0.50	0.50	<0.50	<1	130	---	---	---	---
MW-9	04/18/08	2,500	---	---	---	11,000	51	<1	1.7	1.9	<2	16	---	---	---	---
MW-9	10/14/08	1,600	---	---	---	4,700	27	<1	<1	<1	<2	26	---	---	---	---
MW-9	04/23/09	1,600	---	---	---	11,000	33	<2.5	<2.5	<2.5	<5	6.2	130	<5	<5	<5
MW-9	05/27/10	1,600	---	---	---	11,000	24	<5	<5	<5	<10	<5	<100	<10	<10	<10
MW-9	10/07/10	2,400	---	---	---	<12000	23	<2	<2	<2	<4	3.3	50	<4	<4	<4
MW-9	04/14/11	1,400	---	---	---	28,000	18	<5	<5	<5	<10	<5	<100	<10	<10	<10
MW-9	10/12/11	1,200	---	---	---	8,700	17	<2.5	<2.5	<2.5	<5	<2.5	<50	<5	<5	<5
MW-9	04/20/12	2,200	---	4,500	---	---	20	<5	<5	<5	<10	<5	<100	<10	<10	<10
MW-9	10/17/12	1,200	---	2,500	---	---	9.1	<2.5	<2.5	<2.5	<5	3.7	<50	<5	<5	<5
MW-O-1	10/08/10	32,000	---	---	---	<30000	3,700	1,700	1,100	1,800	<50	60	<500	<50	<50	<50
MW-O-1	04/13/11	14,000	---	---	---	40,000	1,900	370	400	2,400	<20	13	<200	<20	<20	<20
MW-O-1	10/14/11	15,000	---	---	---	22,000	580	240	580	1,800	<20	<10	<200	<20	<20	26
MW-O-1	10/19/12	4,500	---	8,800	---	---	570	160	94	540	<4	17	59	<4	<4	<4
MW-O-2	10/05/10	570	---	---	---	<540	87	5.6	7.2	33	<1	81	33	3.3	<1	<1
MW-O-2	04/27/12	21,000	---	13,000	---	---	7,900	120	200	570	<100	160	<1000	<100	<100	<100
MW-SF-1	03/11/03	1,700	---	---	---	1,500	1,400	16	76	54	<1	620	---	---	---	---
MW-SF-1	08/01/03	13,000	---	---	---	18,000	4,200	240	420	1,020	<30	910	---	---	---	---
MW-SF-1	10/07/03	15,000	---	---	---	7,300	4,800	170	390	1,060	<40	800	---	---	---	---
MW-SF-1	04/22/04	27,000	---	---	---	11,000	11,000	510	480	970	<100	3,800	---	---	---	---
MW-SF-1	11/03/04	34,000	---	---	---	12,000	13,000	400	690	1,170	<100	2,600	---	---	---	---
MW-SF-1	05/06/05	12,000	---	---	---	8,800	3,900	220	240	340	<30	670	---	---	---	---
MW-SF-1	11/02/05	15,000	---	---	---	9,200	5,600	340	330	1,050	<50	570	---	---	---	---
MW-SF-1	05/09/06	20,000	---	---	---	9,000	8,200	730	570	1,050	<100	1,300	---	---	---	---
MW-SF-1	12/08/06	19,000	---	---	---	20,000	7,000	640	590	960	<100	650	---	---	---	---
MW-SF-1	03/13/07	10,000	---	---	---	2,700	3,400	320	390	790	<50	160	---	---	---	---
MW-SF-1	05/04/07	11,000	---	---	---	4,600	3,400	110	430	229	<50	340	---	---	---	---
MW-SF-1	08/30/07	16,000	---	---	---	9,000	6,000	210	550	290	<100	430	---	---	---	---
MW-SF-1	11/14/07	16,000	---	---	---	6,300	6,100	180	540	213	<50	400	---	---	---	---
MW-SF-1	02/21/08	23,000	---	---	---	5,600	11,000	280	530	500	<100	1,100	---	---	---	---
MW-SF-1	04/16/08	21,000	---	---	---	11,000	11,000	350	440	550	<200	740	---	---	---	---
MW-SF-1	08/14/08	18,000	---	---	---	27,000	8,200	240	390	253	<100	490	---	---	---	---
MW-SF-1	10/16/08	21,000	---	---	---	12,000	10,000	280	490	477	<100	770	---	---	---	---
MW-SF-1	02/24/09	11,000	---	---	---	10,000	6,300	85	160	65	<50	420	<500	---	---	---
MW-SF-1	04/20/09	16,000	---	---	---	11,000	7,500	210	340	261	<100	340	<1000	<100	<100	<100
MW-SF-1	07/22/09	12,000	---	---	---	34,000	6,300	110	180	89	<50	510	540	<50	<50	<50
MW-SF-1	10/23/09	21,000	---	---	---	12,000	11,000	110	350	63	<100	620	<1000	<100	<100	<100
MW-SF-1	03/16/10	13,000	---	---	---	12,000	5,900	56	120	55	<50	650	<500	<50	<50	<50
MW-SF-1	05/27/10	8,800	---	---	---	3,500	3,900	46	150	51	<40	140	<400	<40	<40	<40
MW-SF-1	07/13/10	8,600	---	---	---	11,000	4,000	41	64	<25	<50	350	<500	<50	<50	<50
MW-SF-1	10/07/10	10,000	---	---	---	<5000	5,200	58	67	<50	<100	440	<1000	<100	<100	<100
MW-SF-1	01/12/11	15,000	---	---	---	15,000	8,500	<50	<50	<50	<100	650	<1000	<100	<100	<100
MW-SF-1	04/13/11	16,000	---	---	---	9,400	7,800	62	97	93	<100	450	<1000	<100	<100	<100
MW-SF-1	07/12/11	8,400	---	---	---	12,000	4,700	34	76	<38	<50	240	<500	<50	<50	<50
MW-SF-1	10/12/11	9,500	---	---	---	9,800	4,500	32	71	37	<50	180	<500	<50	<50	<50
MW-SF-1	01/10/12	15,000	---	---	---	13,000	7,300	94	140	140	<100	240	<1000	<100	<100	<100
MW-SF-1	04/19/12	8,800	---	17,000	---	---	4,600	33	90	83	<50	110	<500	<50	<50	<50
MW-SF-1	10/18/12	3,700	---	6,400	---	---	1,500	<10	15	<10	<20	45	<200	<20	<20	<20
MW-SF-10	10/05/10	30,000	---	---	---	<220000	1,500	1,200	600	2,700	<30	31	<300	<30	<30	<30
MW-SF-10	04/14/11	31,000	---	---	---	160,000	520	68	410	6,500	<20	21	<200	<20	<20	<20
MW-SF-10	10/13/11	18,000	---	---	---	46,000	320	320	260	2,900	<20	<10	<200	<20	<20	<20
MW-SF-11	10/05/10	7,800	---	---	---	650	4,000	210	<15	110	<30	140	940	<30	<30	<30
MW-SF-11	04/29/11	16,000	---	---	---	2,500	10,000	60	95	140	<100	130	<1000	<100	<100	<100
MW-SF-11	10/13/11	30,000	---	---	---	2,300	14,000	250	340	600	<200	<100	<2000	<200	<200	<200

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
MW-SF-11	04/19/12	15,000	---	160	---	---	8,100	130	110	480	< 100	100	< 1000	< 100	< 100	< 100
MW-SF-11	10/18/12	77,000	---	320	---	---	18,000	420	2,600	6,500	< 200	< 100	< 2000	< 200	< 200	< 200
MW-SF-12	10/05/10	17,000	---	---	---	1,900	5,300	1,800	110	680	<50	2,200	880	<50	<50	<50
MW-SF-12	04/29/11	27,000	---	---	---	19,000	5,900	4,400	340	3,400	<50	2,200	<500	<50	<50	<50
MW-SF-12	10/13/11	110,000	---	---	---	11,000	24,000	18,000	1,000	6,400	<200	7,200	<2000	<200	<200	<200
MW-SF-13	10/05/10	9,000	---	---	---	2,900	2,100	1,000	83	520	<20	680	280	61	<20	<20
MW-SF-13	04/29/11	3,400	---	---	---	6,300	1,000	64	20	189	<10	39	270	23	<10	<10
MW-SF-13	10/14/11	42,000	---	---	---	13,000	12,000	5,200	300	2,200	<200	580	<2000	<200	<200	<200
MW-SF-14	10/08/10	30,000	---	---	---	9,300	10,000	300	900	1,400	<200	1,900	2,300	<200	<200	<200
MW-SF-14	04/29/11	18,000	---	---	---	6,500	12,000	84	130	150	<100	330	1,800	<100	<100	<100
MW-SF-14	10/13/11	<20000	---	---	---	6,900	9,100	120	<100	660	<200	760	<2000	<200	<200	<200
MW-SF-14	04/19/12	15,000	---	450	---	---	8,200	47	43	120	< 50	220	630	< 50	< 50	< 50
MW-SF-14	10/18/12	9,800	---	200	---	---	5,100	24	< 20	64	< 40	58	< 400	< 40	< 40	< 40
MW-SF-15	10/05/10	8,600	---	---	---	2,000	1,900	700	63	500	<20	1,000	9,200	37	<20	<20
MW-SF-15	04/29/11	10,000	---	---	---	3,800	5,500	230	100	361	<40	1,200	3,400	62	<40	<40
MW-SF-15	10/14/11	35,000	---	---	---	39,000	11,000	860	210	1,700	<200	780	2,300	<200	<200	<200
MW-SF-16	10/04/10	4,100	---	---	---	<1400	1,600	150	39	160	<20	170	1,800	39	<20	<20
MW-SF-16	04/29/11	5,900	---	---	---	2,400	2,400	210	150	563	<20	210	370	30	<20	<20
MW-SF-16	10/14/11	7,900	---	---	---	2,500	2,900	130	140	380	<50	200	<500	<50	<50	<50
MW-SF-2	10/05/10	110,000	---	---	---	<180000	21,000	18,000	1,200	7,100	<200	1,700	<2000	<200	<200	<200
MW-SF-2	04/14/11	48,000	---	---	---	26,000	15,000	1,800	600	5,400	<200	930	<2000	<200	<200	<200
MW-SF-2	10/13/11	72,000	---	---	---	18,000	18,000	9,600	660	5,100	<200	940	<2000	<200	<200	<200
MW-SF-3	10/04/10	<500	---	---	---	<3700	32	10	<2.5	8.4	<5	50	3,000	<5	<5	<5
MW-SF-3	04/29/11	15,000	---	---	---	52,000	5,200	590	140	520	<50	2,300	1,200	<50	<50	<50
MW-SF-3	10/14/11	9,500	---	---	---	3,400	4,300	<25	28	38	<50	98	<500	<50	<50	<50
MW-SF-4	03/11/03	3,600	---	---	---	2,500	1,100	<13	180	120	<13	750	---	---	---	---
MW-SF-4	10/08/03	40,000	---	---	---	86,000	4,600	1,900	990	5,200	<40	530	---	---	---	---
MW-SF-4	02/21/08	25,000	---	---	---	9,900	4,100	89	1,200	2,730	<40	330	---	---	---	---
MW-SF-4	04/16/08	21,000	---	---	---	11,000	4,600	94	970	2,920	<100	380	---	---	---	---
MW-SF-4	08/14/08	20,000	---	---	---	54,000	4,200	43	1,100	770	<50	260	---	---	---	---
MW-SF-4	10/16/08	17,000	---	---	---	12,000	3,700	42	1,100	1,196	<40	170	---	---	---	---
MW-SF-4	02/23/09	20,000	---	---	---	32,000	6,400	92	1,000	1,420	<50	950	<500	---	---	---
MW-SF-4	05/28/10	17,000	---	---	---	8,800	7,200	39	370	250	<50	440	<500	120	<50	<50
MW-SF-4	07/14/10	13,000	---	---	---	9,500	4,400	37	450	360	<50	320	<500	64	<50	<50
MW-SF-4	10/07/10	30,000	---	---	---	<31000	8,900	<50	940	770	<100	620	<1000	<100	<100	<100
MW-SF-4	01/12/11	20,000	---	---	---	18,000	8,500	<50	350	280	<100	350	<1000	100	<100	<100
MW-SF-4	04/13/11	11,000	---	---	---	28,000	2,600	<15	320	297	<30	180	<300	<30	<30	<30
MW-SF-4	07/12/11	15,000	---	---	---	10,000	4,500	36	530	540	<50	220	<500	<50	<50	<50
MW-SF-4	01/10/12	22,000	---	---	---	54,000	4,900	< 25	590	770	< 50	160	< 500	< 50	< 50	< 50
MW-SF-4	04/20/12	19,000	---	7,200	---	---	4,500	36	480	430	< 50	460	< 500	< 50	< 50	< 50
MW-SF-4	10/19/12	8,900	---	9,900	---	---	2,200	40	280	420	< 20	160	410	< 20	< 20	< 20
MW-SF-5	10/08/10	540	---	---	---	<2700	110	1.1	<1	<1	<2	400	180	18	<2	<2
MW-SF-5	04/13/11	570	---	---	---	2,900	41	<2	<2	<2	<4	380	270	24	<4	<4
MW-SF-5	10/13/11	<500	---	---	---	2,900	6.9	<2.5	<2.5	<2.5	<5	240	100	11	<5	<5
MW-SF-6	10/08/10	59,000	---	---	---	9,200	15,000	7,200	940	4,300	<200	740	<2000	<200	<200	<200
MW-SF-6	04/14/11	32,000	---	---	---	12,000	12,000	330	540	3,800	<100	810	<1000	<100	<100	<100
MW-SF-6	10/13/11	40,000	---	---	---	11,000	14,000	420	780	3,600	<200	570	<2000	<200	<200	<200
MW-SF-9	03/11/03	24,000	---	---	---	13,000	3,200	940	340	1,040	<25	1,600	---	---	---	---
MW-SF-9	08/01/03	6,600	---	---	---	95,000	980	72	140	430	17	2,500	---	---	---	---
MW-SF-9	10/07/03	5,800	---	---	---	3,300	340	8.8	82	92	<5	3,200	---	---	---	---
MW-SF-9	05/04/05	5,700	---	---	---	9,700	730	73	130	190	<10	54	---	---	---	---
MW-SF-9	11/03/05	<500	---	---	---	690	9.4	<2.5	<2.5	<2.5	<5	<2.5	---	---	---	---
MW-SF-9	12/08/06	<500	---	---	---	10,000	35	<2.5	<2.5	3.6	<5	8.7	---	---	---	---
MW-SF-9	11/14/07	110	---	---	---	1,400	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
MW-SF-9	04/16/08	920	---	---	---	5,800	200	1.4	6.3	3.9	<1	16	---	---	---	---
MW-SF-9	10/21/08	350	---	---	---	770	10	<0.50	2.3	<0.50	<1	<0.50	---	---	---	---
MW-SF-9	04/23/09	430	---	---	---	3,800	44	<0.50	1.2	<0.50	<0.50	<0.50	<10	<1	<1	<1
MW-SF-9	10/22/09	2,400	---	---	---	5,900	1,300	<10	11	<10	<20	13	<200	<20	<20	<20
MW-SF-9	05/27/10	350	---	---	---	8,200	100	1.3	<1	<1	<2	<1	<20	<2	<2	<2
MW-SF-9	10/07/10	1,100	---	---	---	<7300	450	7.8	17	<2.5	<5	<2.5	<50	<5	<5	<5
MW-SF-9	04/13/11	310	---	---	---	5,900	36	<0.50	<0.50	1.2	<1	<0.50	<10	<1	<1	<1
MW-SF-9	04/19/12	480	---	3,300	---	---	160	< 1	< 1	< 1	< 2	< 1	< 20	2.2	< 2	< 2
PO-7	11/08/05	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
PW-1	11/27/96	---	---	---	---	---	<1	2.2	<1	2.0	270	<10	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
PW-1	07/15/97	190	---	<500	---	---	<0.50	<0.50	<0.50	<1	180	<5	---	---	---	---
PW-1	01/05/98	<100	---	<500	---	---	<0.50	<0.50	<0.50	<1.5	68	<5	---	---	---	---
PW-1	05/22/98	<300	---	---	---	---	<0.50	<0.50	<0.50	<1	38	<0.50	---	---	---	---
PW-1	11/13/98	<300	---	---	---	---	<0.50	<0.50	<0.50	<0.50	73	8.1	---	---	---	---
PW-1	05/06/99	<500	---	<500	---	---	<0.50	<0.50	<0.50	<0.50	5.7	<0.50	---	---	---	---
PW-1	11/17/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	2.5	<0.50	---	---	---	---
PW-1	05/17/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	1.5	<0.50	---	---	---	---
PW-1	11/28/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	0.70	<0.50	---	---	---	---
PW-1	05/09/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	0.60	<0.50	---	---	---	---
PW-1	11/07/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	1.3	<0.50	---	---	---	---
PW-1	04/11/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PW-1	10/23/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PW-1	04/08/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PW-1	10/08/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PW-1	04/21/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PW-1	11/04/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PW-1	05/05/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	2.1	<0.50	---	---	---	---
PW-1	05/09/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PW-1	12/07/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PW-1	05/05/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PW-1	11/14/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PW-1	04/18/08	<50	---	---	---	460	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PW-1	11/21/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PW-1	04/20/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
PW-1	10/21/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
PW-1	05/26/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
PW-1	10/06/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
PW-1	04/12/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
PW-1	10/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
PW-2	11/25/96	---	---	---	---	---	<0.50	<0.50	<0.50	<1.5	76	3.3	---	---	---	---
PW-2	07/14/97	140	---	<500	---	---	<0.50	<0.50	<0.50	<1	160	<5	---	---	---	---
PW-2	01/06/98	<100	---	<500	---	---	<0.50	<0.50	<0.50	<1.5	82	<5	---	---	---	---
PW-2	05/22/98	<300	---	---	---	---	<0.50	<0.50	<0.50	<1	37	0.90	---	---	---	---
PW-2	08/25/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	6.8	<0.50	---	---	---	---
PW-2	11/16/98	<300	---	---	---	---	16	18	2.0	11	35	58	---	---	---	---
PW-2	02/03/99	<500	---	<500	---	---	<0.50	<0.50	<0.50	<1	79	2.4	---	---	---	---
PW-2	05/06/99	<500	---	<500	---	---	<0.50	<0.50	<0.50	<0.50	3.4	<0.50	---	---	---	---
PW-2	08/10/99	<500	---	<1000	---	---	<0.50	<1	<1	<1	32	<1	---	---	---	---
PW-2	11/19/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	45	0.70	---	---	---	---
PW-2	02/29/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	58	<0.50	---	---	---	---
PW-2	05/16/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	50	0.80	---	---	---	---
PW-2	08/29/00	<300	---	---	---	760	<0.50	<0.50	<0.50	<0.50	56	0.60	---	---	---	---
PW-2	11/29/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	35	0.60	---	---	---	---
PW-2	02/06/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	28	0.80	---	---	---	---
PW-2	05/08/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	14	<0.50	---	---	---	---
PW-2	09/19/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	24	<0.50	---	---	---	---
PW-2	11/06/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	23	<0.50	---	---	---	---
PW-2	01/30/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PW-2	04/09/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	1.7	19	<0.50	---	---	---	---
PW-2	10/24/02	<300	---	---	---	1,000	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PW-2	01/16/03	<300	---	---	---	<100	---	---	---	---	---	---	---	---	---	---
PW-2	04/08/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PW-2	07/07/03	---	---	---	---	---	<0.50	<1	<1	<1	<0.50	<1	---	---	---	---
PW-2	10/07/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	8.8	<0.50	---	---	---	---
PW-2	04/21/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	18	0.56	---	---	---	---
PW-2	07/08/04	<50	---	---	---	250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PW-2	11/03/04	83	---	---	---	140	<0.50	<0.50	<0.50	<0.50	52	1.5	---	---	---	---
PW-2	05/06/05	110	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	70	6.2	---	---	---	---
PW-2	11/03/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PW-2	05/04/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PW-2	12/06/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	6.8	<0.50	---	---	---	---
PW-2	05/02/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	0.57	<0.50	---	---	---	---
PW-2	11/13/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PW-2	04/17/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
PW-3	11/25/96	---	---	---	---	---	<0.50	<0.50	<0.50	<1.5	110	<5	---	---	---	---
PW-3	07/14/97	140	---	<500	---	---	5.9	2.4	2.9	8.4	67	<5	---	---	---	---
PW-3	01/08/98	<100	---	<500	---	---	1.2	1.1	<0.50	<1.5	46	<5	---	---	---	---
PW-3	05/22/98	<300	---	---	---	---	<0.50	<0.50	<0.50	<1	48	1.6	---	---	---	---
PW-3	08/25/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	35	<0.50	---	---	---	---
PW-3	11/16/98	<300	---	---	---	---	<0.50	4.5	0.60	3.6	21	<0.50	---	---	---	---
PW-3	02/03/99	<500	---	<500	---	---	<0.50	<0.50	<0.50	<1	25	<0.50	---	---	---	---
PW-3	05/06/99	<500	---	<500	---	---	<0.50	<0.50	<0.50	<0.50	21	<0.50	---	---	---	---
PW-3	08/10/99	<500	---	<1000	---	---	<0.50	<1	<1	<1	13	<1	---	---	---	---
PW-3	11/28/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	3.5	<0.50	---	---	---	---
PW-3	05/08/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	4.4	<0.50	---	---	---	---
PW-3	09/19/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	2.7	<0.50	---	---	---	---
PW-3	11/06/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	4.8	<0.50	---	---	---	---
PW-3	01/30/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PW-3	04/09/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	3.0	<0.50	---	---	---	---
PW-3	10/24/02	<300	---	---	---	1,600	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PW-3	01/16/03	<300	---	---	---	<100	---	---	---	---	---	---	---	---	---	---
PW-3	04/08/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	0.73	<0.50	---	---	---	---
PW-3	07/07/03	---	---	---	---	---	<0.50	<1	<1	<1	<0.50	<1	---	---	---	---
PW-3	10/07/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	2.6	<0.50	---	---	---	---
PW-3	04/21/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PW-3	07/13/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PW-3	11/03/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PW-3	05/06/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	0.53	<0.50	---	---	---	---
PW-3	11/03/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PW-3	05/03/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PW-3	12/06/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	1.1	<0.50	---	---	---	---
PW-3	05/02/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PW-3	11/15/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PW-3	04/17/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PW-3	10/17/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PW-3	04/20/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	0.64	<0.50	<10	<1	<1	<1
PW-3	10/21/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	0.86	<0.50	<10	<1	<1	<1
PW-3	05/26/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	1.3	<0.50	<10	<1	<1	<1
PW-3	10/06/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
PW-3	04/12/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	1.4	<0.50	<10	1.0	<1	<1
PW-3	10/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
PW-3	04/18/12	<50	---	<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	<1
PW-3	10/17/12	<50	---	<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	<1
PZ-1	11/27/96	---	---	---	---	---	79	16	140	49	15	610	---	---	---	---
PZ-1	07/16/97	220	---	<500	---	---	<0.50	<0.50	13	<1	3.0	480	---	---	---	---
PZ-1	01/06/98	<100	---	<500	---	---	<0.50	<0.50	<0.50	<1.5	1.3	17	---	---	---	---
PZ-1	05/26/98	400	---	---	---	---	<5	<5	<5	<10	<5	370	---	---	---	---
PZ-1	11/16/98	516	---	---	---	<100	110	67	8.0	38	7.2	320	---	---	---	---
PZ-1	05/06/99	2,000	---	<500	---	---	500	<2	13	120	<5	230	---	---	---	---
PZ-1	11/17/99	<300	---	---	---	<100	<2.5	<2.5	<2.5	<2.5	<2.5	210	---	---	---	---
PZ-1	05/17/00	350	---	---	---	740	51	<2.5	2.7	<2.5	<2.5	250	---	---	---	---
PZ-1	11/29/00	390	---	---	---	720	79	<2.5	<2.5	<2.5	<2.5	260	---	---	---	---
PZ-1	05/08/01	<300	---	---	---	380	15	<0.50	<0.50	<0.50	<0.50	330	---	---	---	---
PZ-1	11/06/01	550	---	---	---	140	8.4	<0.50	<0.50	0.70	1.4	470	---	---	---	---
PZ-1	04/09/02	<300	---	---	---	<100	<2.5	<2.5	<2.5	<2.5	<2.5	270	---	---	---	---
PZ-10	08/01/03	6,300	---	---	---	1,800	710	130	150	890	<10	47	---	---	---	---
PZ-10	10/07/03	6,200	---	---	---	1,900	1,000	21	230	600	<10	55	---	---	---	---
PZ-10	01/27/04	3,100	---	---	---	1,800	560	5.4	63	201	<5	28	---	---	---	---
PZ-10	04/22/04	11,000	---	---	---	8,300	2,100	29	470	1,490	<20	110	---	---	---	---
PZ-10	07/19/04	4,800	---	---	---	2,500	890	<5	210	278	<10	45	---	---	---	---
PZ-10	11/03/04	4,600	---	---	---	2,800	920	9.1	280	580	<10	50	---	---	---	---
PZ-10	02/03/05	1,000	---	---	---	1,200	250	1.4	34	108	<2	42	---	---	---	---
PZ-10	05/04/05	<50	---	---	---	350	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PZ-10	08/01/05	<50	---	---	---	<100	0.71	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PZ-10	11/02/05	<100	---	---	---	220	<0.50	<0.50	<0.50	<0.50	<1	<0.50	---	---	---	---
PZ-10	02/27/06	<200	---	---	---	1,600	<1	<1	<1	<1	<2	6.1	---	---	---	---
PZ-10	05/09/06	<1000	---	---	---	1,600	5.1	<5	<5	<5	<10	36	---	---	---	---
PZ-10	09/20/06	<200	---	---	---	640	<1	<1	<1	<1	<2	3.6	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
PZ-10	12/06/06	<500	---	---	---	2,400	<2.5	<2.5	<2.5	<2.5	<5	5.5	---	---	---	---
PZ-10	03/13/07	<500	---	---	---	1,100	<2.5	<2.5	<2.5	<2.5	<5	<2.5	---	---	---	---
PZ-10	05/03/07	<1000	---	---	---	7,100	6.1	<5	<5	<5	<10	<5	---	---	---	---
PZ-10	08/30/07	<200	---	---	---	1,000	<1	<1	<1	<1	<2	<1	---	---	---	---
PZ-10	11/14/07	<50	---	---	---	360	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PZ-10	02/21/08	<200	---	---	---	510	65	<1	3.1	9.4	<2	<1	---	---	---	---
PZ-10	04/16/08	950	---	---	---	670	360	5.0	20	85	<5	11	---	---	---	---
PZ-10	10/16/08	<200	---	---	---	1,100	18	<1	<1	<1	<2	1.7	---	---	---	---
PZ-10	04/20/09	560	---	---	---	2,600	26	<1	3.2	<1	<2	12	38	5.2	<2	<2
PZ-10	07/21/09	<200	---	---	---	1,700	1.4	<1	<1	<1	<2	9.6	55	3.1	<2	<2
PZ-10	10/22/09	<200	---	---	---	1,200	<1	<1	<1	<1	<2	4.4	30	<2	<2	<2
PZ-10	05/27/10	<100	---	---	---	940	0.92	<0.50	<0.50	<0.50	<1	1.4	<10	<1	<1	<1
PZ-10	10/07/10	<100	---	---	---	<830	<0.50	<0.50	<0.50	<0.50	<1	<0.50	<10	<1	<1	<1
PZ-10	04/13/11	<200	---	---	---	910	2.8	<1	<1	<1	<2	<1	<20	2.2	<2	<2
PZ-10	04/19/12	< 200	---	570	---	---	4.9	< 1	< 1	< 1	< 2	< 1	39	3.4	< 2	< 2
PZ-10	10/17/12	< 500	---	970	---	---	32	< 2.5	< 2.5	< 2.5	< 5	< 2.5	< 50	6.4	< 5	< 5
PZ-3	04/22/04	---	---	---	---	56,000	6,300	<1500	4,100	24,000	---	<25000	---	---	---	---
PZ-3	04/22/09	---	2,200	---	---	---	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<50	<10	<10	<10
PZ-3	04/15/10	---	1,600	---	---	---	2.2	<0.50	<0.50	<0.50	<0.50	0.74	<10	<2	<2	<2
PZ-3	10/08/10	---	430	---	---	---	0.60	---	---	---	<0.50	0.69	<10	---	---	---
PZ-3	04/14/11	---	2,700	---	---	---	1.3	<0.50	<0.50	<0.50	<0.50	0.71	<10	<2	<2	<2
PZ-3	10/14/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
PZ-3	04/19/12	---	590	---	---	---	0.68	< 0.50	< 0.50	0.26 J	0.50	0.52	6.6 J	< 2.0	< 2.0	< 2.0
PZ-3	10/19/12	---	5,000	---	---	---	280	< 0.50	150	362	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
PZ-5	10/07/03	6,900	---	---	---	<100	11	<10	<10	<10	<20	9,100	---	---	---	---
PZ-5	05/05/05	<50	---	---	---	<100	0.87	<0.50	<0.50	<0.50	<0.50	43	---	---	---	---
PZ-5	11/02/05	1,200	---	---	---	<100	<2.5	<2.5	<2.5	<2.5	<5	2,100	---	---	---	---
PZ-5	02/28/06	160	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<1	380	---	---	---	---
PZ-5	05/04/06	1,200	---	---	---	<100	<2	<2	<2	<2	<4	1,900	---	---	---	---
PZ-5	09/19/06	480	---	---	---	<100	<1	<1	<1	<1	<2	1,200	---	---	---	---
PZ-5	12/07/06	480	---	---	---	<100	<1.5	<1.5	<1.5	<1.5	<3	960	---	---	---	---
PZ-5	03/13/07	320	---	---	---	<100	<1	<1	<1	<1	<2	690	---	---	---	---
PZ-5	05/04/07	400	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<1	610	---	---	---	---
PZ-5	08/29/07	380	---	---	---	<100	<1	<1	<1	<1	<2	480	---	---	---	---
PZ-5	11/15/07	370	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<1	470	---	---	---	---
PZ-5	02/20/08	940	---	---	---	560	<1	<1	<1	<1	<2	750	---	---	---	---
PZ-5	04/15/08	750	---	---	---	330	<1	<1	<1	<1	<2	740	---	---	---	---
PZ-5	08/12/08	1,500	---	---	---	370	<2	<2	<2	<2	<4	2,000	---	---	---	---
PZ-5	10/16/08	<3000	---	---	---	210	22	<15	<15	<15	<30	1,900	---	---	---	---
PZ-5	02/24/09	1,000	---	---	---	440	61	<1	<1	<1	<2	1,200	37,000	---	---	---
PZ-5	02/24/09	1,200	---	---	---	760	250	<2	5.7	<2	<4	1,200	35,000	<4	<4	<4
PZ-5	04/23/09	1,200	---	---	---	760	250	<2	5.7	<2	<4	1,200	35,000	<4	<4	<4
PZ-5	07/22/09	3,800	---	---	---	1,800	2,000	20	98	77	<5	800	54,000	<5	<5	<5
PZ-5	10/23/09	2,900	---	---	---	1,300	1,100	18	53	69	<10	500	50,000	<10	<10	<10
PZ-5	03/16/10	1,700	---	---	---	890	370	2.1	33	9.4	<4	350	58,000	<4	<4	<4
PZ-5	04/16/10	1,600	---	---	---	1,100	110	<2.5	9.7	4.6	<5	340	91,000	<5	<5	<5
PZ-5	05/27/10	J	---	---	---	1,300	1,100	<25	66	<25	<50	360	69,000	<50	<50	<50
PZ-5	07/14/10	4,600	---	---	---	1,300	1,900	<10	180	<10	<20	530	82,000	<20	<20	<20
PZ-5	08/12/10	9,100	---	---	---	1,600	4,400	<5	340	42	<10	490	64,000	<10	<10	<10
PZ-5	09/20/10	8,500	---	---	---	1,800	4,200	2.8	110	12	<4	370	43,000	<4	<4	<4
PZ-5	10/07/10	6,300	---	---	---	1,000	3,100	<20	56	<20	<40	150	40,000	<40	<40	<40
PZ-5	11/16/10	3,400	---	---	---	1,600	1,600	<10	10	15	<20	130	20,000	<20	<20	<20
PZ-5	12/22/10	3,400	---	---	---	1,700	1,600	<10	<10	<10	<20	100	22,000	<20	<20	<20
PZ-5	01/12/11	<4000	---	---	---	1,200	1,500	<5	<5	<5	<10	130	38,000	<10	<10	<10
PZ-5	02/24/11	1,400	---	---	---	400	390	<2	<2	3.8	<4	84	27,000	<4	<4	<4
PZ-5	03/23/11	1,100	---	---	---	820	210	<1	<1	2.4	<2	140	29,000	<2	<2	<2
PZ-5	04/13/11	830	---	---	---	520	59	<1	<1	<1	<2	120	28,000	<2	<2	<2
PZ-5	05/13/11	2,000	---	---	---	830	710	4.7	25	26	<5	140	34,000	<5	<5	<5
PZ-5	06/22/11	4,500	---	---	---	1,100	960	9.0	30	80	<10	100	33,000	<10	<10	<10
PZ-5	07/12/11	3,300	---	---	---	1,200	1,500	16	50	77	<20	110	34,000	<20	<20	<20
PZ-5	08/19/11	2,600	---	---	---	1,200	750	9.0	63	45	<10	150	47,000	<10	<10	<10
PZ-5	09/22/11	4,700	---	---	---	1,400	1,600	33	100	200	<20	200	64,000	<20	<20	<20
PZ-5	10/14/11	4,600	---	---	---	1,500	1,500	31	130	190	<10	170	58,000	<10	<10	<10
PZ-5	11/28/11	4,600	---	---	---	1,500	1,700	18	150	140	<20	220	61,000	<20	<20	<20

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
PZ-5	12/21/11	5,900	---	---	---	2,000	2,200	57	160	390	<20	190	61,000	<20	<20	<20
PZ-5	01/10/12	5,400	---	---	---	1,900	2,000	44	140	330	<20	200	38,000	<20	<20	<20
PZ-5 DUP	01/10/12	4,800	---	---	---	2,200	1,800	42	130	290	<20	190	34,000	<20	<20	<20
PZ-5	02/23/12	8,400	---	---	---	1,700	3,300	86	280	760	<40	370	29,000	<40	<40	<40
PZ-5 DUP	02/23/12	7,400	---	---	---	2,600	3,200	82	220	650	<40	360	29,000	<40	<40	<40
PZ-5	03/28/12	4,100	---	270	---	---	1,800	20	100	170	<20	150	29,000	<20	<20	<20
PZ-5 DUP	03/28/12	4,100	---	210	---	---	1,800	20	100	160	<20	150	31,000	<20	<20	<20
PZ-5	04/19/12	2,900	---	260	---	---	1,300	<10	97	20	<20	140	58,000	<20	<20	<20
PZ-5 DUP	04/19/12	2,900	---	290	---	---	1,300	<10	99	21	<20	140	59,000	<20	<20	<20
PZ-5	05/25/12	7,500	---	340	---	---	3,700	42	210	250	<30	240	68,000	<30	<30	<30
PZ-5 DUP	05/25/12	<10000	---	380	---	---	4,200	<50	200	230	<100	220	65,000	<100	<100	<100
PZ-5	06/15/12	<10000	---	440	---	---	4,500	60	190	320	<100	500	75,000	<100	<100	<100
PZ-5 DUP	06/15/12	<10000	---	430	---	---	4,500	60	190	320	<100	510	76,000	<100	<100	<100
PZ-5	07/10/12	7,600	---	360	---	---	3,400	31	150	200	<20	700	66,000	<20	<20	<20
PZ-5	08/29/12	4,500	---	900	---	---	2,300	17	110	66	<20	1,000	140,000	<20	<20	<20
PZ-5	09/26/12	6,200	---	390	---	---	2,000	25	160	110	<20	1,500	67,000	<20	<20	<20
PZ-5 DUP	09/26/12	7,100	---	430	---	---	2,400	32	160	120	<20	2,100	75,000	<20	<20	<20
PZ-5	10/18/12	9,900	---	520	---	---	3,300	55	200	180	<80	5,600	83,000	<80	<80	<80
PZ-5 DUP	10/18/12	12,000	---	520	---	---	4,400	51	290	190	<50	7,000	110,000	<50	<50	<50
PZ-6	11/30/00	<300	---	---	---	<100	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PZ-6	05/08/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PZ-6	07/08/03	---	---	---	---	---	<0.50	<1	<1	<1	<0.50	<1	---	---	---	---
PZ-6	04/27/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PZ-6	07/08/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	0.50	<0.50	---	---	---	---
PZ-7A	06/13/03	340	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<1	660	---	---	---	---
PZ-7A	09/24/03	160	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	390	---	---	---	---
PZ-7A	10/10/03	240	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	340	---	---	---	---
PZ-7A	08/02/05	---	---	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	4.8	---	---	---	---
PZ-7B	06/13/03	98	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	0.51	51	---	---	---	---
PZ-7B	09/24/03	61	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	67	---	---	---	---
PZ-7B	10/10/03	90	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	2.3	---	---	---	---
PZ-7B	08/02/05	---	---	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PZ-8A	06/13/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	12	---	---	---	---
PZ-8A	09/24/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.7	---	---	---	---
PZ-8A	10/10/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	2.8	---	---	---	---
PZ-8A	08/02/05	---	---	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PZ-8A	12/06/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PZ-8B	06/13/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	31	---	---	---	---
PZ-8B	09/24/03	86	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	180	---	---	---	---
PZ-8B	10/10/03	310	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<1	440	---	---	---	---
PZ-8B	08/02/05	---	---	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PZ-8B	12/06/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PZ-9A	06/13/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PZ-9A	09/24/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PZ-9A	10/10/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PZ-9A	08/02/05	---	---	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
PZ-9B	06/13/03	75	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	50	---	---	---	---
PZ-9B	09/24/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	7.9	---	---	---	---
PZ-9B	10/10/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	3.9	---	---	---	---
PZ-9B	08/02/05	---	---	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	---	---	---	---
TF-14	09/18/03	---	---	---	---	20,000	210	<2.5	62	89	<2.5	<2.5	---	---	---	---
TF-14	02/21/04	---	---	---	12,000	---	370	<1	130	126	---	1.2	---	---	---	---
TF-16	04/14/03	---	---	---	---	4,450	24	5.0	15	17	---	9.5	---	---	---	---
TF-16	09/18/03	---	---	---	---	59,000	280	8.3	24	211	<0.50	9.1	---	---	---	---
TF-16	10/11/03	---	---	---	---	7,400	150	7.0	27	91	---	<25	---	---	---	---
TF-16	02/21/04	---	---	---	48,000	---	120	2.4	23	89	---	5.6	---	---	---	---
TF-16	04/21/04	---	---	---	---	23,000	200	30	40	320	---	4.6	---	---	---	---
TF-16	11/04/04	---	---	---	---	16,000	180	4.0	20	320	---	<10	---	---	---	---
TF-16	05/06/05	---	---	---	---	27,000	43	10	4.6	73	---	<25	---	---	---	---
TF-16	11/08/05	---	---	---	---	4,200	25	0.86	3.4	20	---	8.5	---	---	---	---
TF-16	05/04/06	---	---	---	---	33,000	52	0.89	10	49	---	<5	---	---	---	---
TF-16	12/08/06	---	---	---	---	3,500	28	<0.50	1.5	3.0	---	<5	---	---	---	---
TF-16	05/04/07	---	---	---	---	13,000	520	<2.5	5.4	10	---	<25	---	---	---	---
TF-16	11/15/07	---	---	---	---	5,200	450	<0.50	<0.50	<1	---	9.3	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toulene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
TF-16	04/17/08	---	---	---	---	4,300	570	1.3	3.2	4.1	---	<10	---	---	---	---
TF-16	10/16/08	---	3,100	---	---	---	330	<2.5	<2.5	<2.5	<2.5	6.3	<50	<10	<10	<10
TF-16	04/24/09	---	2,200	---	---	---	24	<0.50	<0.50	<0.50	<0.50	4.1	11	<2	<2	<2
TF-16	10/26/09	---	960	---	---	---	7.6	<0.50	0.34 J	<0.50	<0.50	3.9	11	<2	<2	0.35 J
TF-16	04/15/10	---	1,000	---	---	---	10	<0.50	0.38 J	<0.50	---	3.5	8.2 J	<2	<2	0.42 J
TF-16	04/15/11	---	870	---	---	---	---	---	---	---	---	---	---	---	---	---
TF-16	04/22/11	---	---	---	---	---	40	<0.50	1.1	0.80	<0.50	3.4	11	<2	<2	0.39 J
TF-16	04/19/12	2,100	2,100	---	---	---	10	< 0.50	0.83	0.67 J	0.50	3.4	17	< 2.0	< 2.0	0.67 J
TF-21	04/10/03	---	---	---	---	476	267	1.6	8.1	9.8	---	<3	---	---	---	---
TF-21	09/18/03	---	---	---	---	1,800	560	<5	5.6	<5	<5	<5	---	---	---	---
TF-21	10/08/03	---	---	---	---	2,500	390	<0.60	4.2	<0.60	---	<10	---	---	---	---
TF-21	02/21/04	---	---	---	1,500	---	820	<2.5	<2.5	<2.5	---	3.6	---	---	---	---
TF-21	04/21/04	---	---	---	---	2,000	550	<1	1.6	<1	---	2.7	---	---	---	---
TF-21	11/04/04	---	---	---	---	860	10	<0.30	<0.30	1.2	---	<5	---	---	---	---
TF-21	05/05/05	---	---	---	---	3,600	190	13	45	310	---	<100	---	---	---	---
TF-21	11/05/05	---	---	---	---	2,200	140	0.61	3.7	39	---	6.1	---	---	---	---
TF-21	05/03/06	---	---	---	---	3,200	140	4.3	3.9	10	---	5.1	---	---	---	---
TF-21	12/06/06	---	---	---	---	1,100	44	<0.50	<0.50	5.0	---	<5	---	---	---	---
TF-21	05/04/07	---	---	---	---	3,200	80	0.93	0.86	2.2	---	7.2	---	---	---	---
TF-21	11/16/07	---	---	---	---	790	170	<0.50	<0.50	<1	---	<5	---	---	---	---
TF-21	04/17/08	---	---	---	---	980	190	<0.50	4.4	2.4	---	<5	---	---	---	---
TF-21	10/15/08	---	810	---	---	---	37	<0.50	<0.50	<0.50	<0.50	1.0	23	<2	<2	<2
TF-21	04/24/09	---	350	---	---	---	40	<0.50	<0.50	<0.50	<0.50	<0.50	18	<2	<2	<2
TF-21	10/26/09	---	960	---	---	---	50	<0.50	0.46 J	<0.50	<0.50	0.74	19	<2	<2	<2
TF-21	04/16/10	---	1,100	---	---	---	120	0.37 J	1.1	1.2	---	<0.50	15	<2	<2	<2
TF-21	04/15/11	---	2,000	---	---	---	---	---	---	---	---	---	---	---	---	---
TF-21	04/22/11	---	---	---	---	---	160	<0.50	1.4	3.1	<0.50	0.71	20	<2	<2	<2
TF-21	04/20/12	1,600	1,900	---	---	---	280	0.27 J	1.7	0.88 J	0.50	0.99	24	< 2.0	< 2.0	< 2.0
TF-8	09/18/03	---	---	---	---	<100	1.2	<0.50	0.77	2.7	<0.50	24	---	---	---	---
TF-8	02/21/04	---	---	---	520	---	3.2	<0.50	<0.50	1.4	---	46	---	---	---	---
WCW-1	11/25/96	<50	---	<500	<500	---	<0.50	<0.50	<0.50	<1.5	0.60	<5	---	---	---	---
WCW-1	07/15/97	<100	---	<500	---	---	<0.50	<0.50	<0.50	<1	<0.50	<5	---	---	---	---
WCW-1	01/05/98	<500	---	<100	<100	---	<0.50	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
WCW-1	05/23/98	<300	---	---	---	---	<0.50	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
WCW-1	08/25/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-1	11/04/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-1	02/02/99	<500	---	<500	---	---	<0.50	<0.50	<0.50	<1	<1	<0.50	---	---	---	---
WCW-1	05/06/99	<500	---	<500	---	---	2.1	9.8	0.80	4.4	<1	<0.50	---	---	---	---
WCW-1	08/10/99	<500	---	<1000	---	---	<0.50	<1	<1	<1	<0.50	<1	---	---	---	---
WCW-1	11/18/99	<300	---	---	---	<100	<0.50	<1	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-1	02/28/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-1	05/19/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-1	08/28/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	0.50	<0.50	---	---	---	---
WCW-1	11/30/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-1	02/05/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-1	05/10/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-1	09/18/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-1	11/08/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-1	01/30/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-1	04/11/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-1	10/24/02	<300	---	---	---	<100	<0.50	<1	<1	<1	<0.50	<1	---	---	---	---
WCW-1	10/11/03	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.5	---	---	---	---
WCW-1	05/06/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-1	05/03/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-1	11/13/07	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-1	04/18/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-1	04/21/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-1	05/25/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-1	04/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-1	04/17/12	< 50	< 50	---	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
WCW-10	11/25/96	<50	---	<500	<500	---	<0.50	<0.50	<0.50	<1.5	<0.50	<5	---	---	---	---
WCW-10	07/08/97	<100	---	<500	---	---	<0.50	2.2	<0.50	<1	<0.50	<5	---	---	---	---
WCW-10	01/05/98	<500	---	<100	<100	---	<0.50	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
WCW-10	05/19/98	---	---	---	---	---	<0.50	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
WCW-10	11/04/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-10	05/05/99	<500	---	<500	---	---	<0.50	0.80	<0.50	<0.50	<1	<0.50	---	---	---	---
WCW-10	11/17/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	0.80	<0.50	<0.50	---	---	---	---
WCW-10	05/19/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-10	11/30/00	<300	---	---	---	<100	1.0	<0.50	<0.50	0.70	<0.50	<0.50	---	---	---	---
WCW-10	05/10/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-10	11/08/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-10	04/09/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-11	11/25/96	<50	---	<500	<500	---	<0.50	<0.50	<0.50	<1.5	<0.50	<5	---	---	---	---
WCW-11	07/08/97	<100	---	<500	---	---	<0.50	2.5	<0.50	<1	<0.50	<5	---	---	---	---
WCW-11	01/05/98	<500	---	<100	<100	---	<0.50	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
WCW-11	05/18/98	---	---	---	---	---	<0.50	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
WCW-11	11/03/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-11	05/06/99	<500	---	<500	---	---	<0.50	<0.50	<0.50	<0.50	<1	<0.50	---	---	---	---
WCW-11	11/17/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-11	05/18/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-11	11/30/00	<300	---	---	---	<100	0.80	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-11	05/09/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-11	11/08/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-11	04/09/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-12	11/25/96	<50	---	<500	<500	---	<0.50	<0.50	<0.50	<1.5	<0.50	<5	---	---	---	---
WCW-12	07/09/97	<100	---	<500	---	---	<0.50	2.5	<0.50	<1	<0.50	<5	---	---	---	---
WCW-12	01/05/98	<500	---	<100	<100	---	<0.50	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
WCW-12	05/18/98	---	---	---	---	---	<0.50	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
WCW-12	11/03/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-12	05/06/99	<500	---	<500	---	---	1.4	5.3	<0.50	2.3	<1	<0.50	---	---	---	---
WCW-12	11/17/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-12	05/18/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-12	11/30/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-12	05/09/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-12	11/08/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-12	04/09/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-12	10/24/02	<300	---	---	---	<100	<0.50	<1	<1	<1	<0.50	<1	---	---	---	---
WCW-12	04/09/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-12	05/10/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-12	11/03/04	<100	---	---	---	3,600	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-12	03/02/05	<100	---	---	---	<100	<0.50	<1	<1	<1	---	<1	---	---	---	---
WCW-12	05/05/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-12	11/05/05	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-12	05/05/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-12	12/08/06	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-12	05/01/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-12	11/13/07	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-12	04/18/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-12	10/17/08	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-12	04/21/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-12	10/27/09	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-12	05/24/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-12	10/07/10	<100	<100	---	---	---	<0.50	---	---	---	<0.50	<0.50	<10	---	---	---
WCW-12	04/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-12	10/14/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-12	04/17/12	<50	---	<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	<1
WCW-12	10/18/12	---	<100	---	---	---	<0.50	<0.50	<0.50	<1.0	0.50	<0.50	<10	<2.0	<2.0	<2.0
WCW-13	11/25/96	<50	---	<500	<500	---	<0.50	<0.50	<0.50	<1.5	<0.50	<5	---	---	---	---
WCW-13	07/09/97	<100	---	<500	---	---	<0.50	<0.50	<0.50	<1	<0.50	<5	---	---	---	---
WCW-13	01/05/98	<500	---	<100	<100	---	<0.50	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
WCW-13	05/18/98	---	---	---	---	---	<0.50	<0.50	<0.50	<1	<0.50	1.4	---	---	---	---
WCW-13	11/03/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-13	05/06/99	<500	---	<500	---	---	0.88	3.1	<0.50	0.87	<1	<0.50	---	---	---	---
WCW-13	11/17/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-13	05/18/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	0.80	<0.50	---	---	---	---
WCW-13	08/28/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-13	11/30/00	<300	---	---	---	<100	0.60	<0.50	<0.50	<0.50	1.0	<0.50	---	---	---	---
WCW-13	02/05/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
WCW-13	05/09/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	0.60	<0.50	---	---	---	---
WCW-13	09/18/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	1.0	<0.50	---	---	---	---
WCW-13	11/08/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-13	01/30/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-13	04/09/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-13	07/30/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-13	10/24/02	<300	---	---	---	<100	<0.50	<1	<1	<1	<0.50	<1	---	---	---	---
WCW-13	01/28/03	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-13	04/09/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-13	07/30/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-13	01/28/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-13	05/10/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-13	07/20/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-13	11/03/04	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-13	02/03/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-13	05/05/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-13	08/02/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-13	11/05/05	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-13	02/28/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-13	05/05/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-13	09/20/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-13	12/08/06	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-13	03/13/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-13	05/01/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-13	08/28/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-13	11/13/07	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-13	02/21/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-13	04/18/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-13	08/13/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-13	10/17/08	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-13	02/23/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-13	04/21/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-13	07/20/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-13	10/27/09	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-13	03/15/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-13	05/24/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-13	07/12/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-13	10/08/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-13	01/10/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-13	04/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-13	07/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-13	10/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-13	01/09/12	< 50	---	---	---	< 100	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
WCW-13	04/17/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
WCW-13	07/09/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
WCW-13	10/16/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
WCW-14	11/03/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	1.5	<0.50	---	---	---	---
WCW-14	05/06/99	<500	---	<500	---	---	1.8	6.6	0.55	3.0	<1	<0.50	---	---	---	---
WCW-14	11/17/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-14	05/18/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-14	11/30/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-14	05/09/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-14	11/08/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-14	04/09/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-14	10/24/02	<300	---	---	---	<100	<0.50	<1	<1	<1	<0.50	<1	---	---	---	---
WCW-14	04/09/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-14	05/10/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-14	11/03/04	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-14	05/05/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-14	11/05/05	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-14	05/05/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-14	12/08/06	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-14	05/01/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-14	11/13/07	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
WCW-14	04/18/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-14	10/17/08	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-14	04/21/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-14	10/27/09	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-14	05/25/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-14	10/07/10	<100	<100	---	---	---	<0.50	---	---	---	<0.50	<0.50	<10	---	---	---
WCW-14	04/12/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-14	10/14/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-14	04/17/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
WCW-14	10/18/12	---	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
WCW-2	11/25/96	<50	---	<500	<500	---	<0.50	<0.50	<0.50	<1.5	<1.7	<5	---	---	---	---
WCW-2	07/08/97	<100	---	<500	---	---	<0.50	3.5	1.4	7.4	0.57	<5	---	---	---	---
WCW-2	01/05/98	<500	---	<100	<100	---	<0.50	<0.50	<0.50	<1	1.0	<0.50	---	---	---	---
WCW-2	05/19/98	<300	---	---	---	---	<0.50	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
WCW-2	08/25/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-2	11/04/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-2	02/02/99	<500	---	<500	---	---	<0.50	<0.50	<0.50	<1	<1	<0.50	---	---	---	---
WCW-2	05/06/99	<500	---	<500	---	---	<0.50	0.80	<0.50	<0.50	<1	<0.50	---	---	---	---
WCW-2	08/10/99	<500	---	<1000	---	---	<0.50	<1	<1	<1	<0.50	<1	---	---	---	---
WCW-2	11/17/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-2	02/28/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	2.0	<0.50	---	---	---	---
WCW-2	05/18/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-2	08/28/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	0.60	<0.50	---	---	---	---
WCW-2	11/30/00	<300	---	---	---	<100	0.60	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-2	02/05/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-2	05/09/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-2	09/18/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-2	11/08/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-2	01/30/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-2	04/09/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-2	10/24/02	<300	---	---	---	<100	<0.50	<1	<1	<1	<0.50	<1	---	---	---	---
WCW-2	04/10/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-2	10/11/03	<100	---	---	---	110	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-2	04/21/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-2	11/03/04	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-2	05/05/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-2	11/05/05	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-2	05/05/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-2	12/05/06	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-2	05/01/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-2	11/13/07	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-2	04/18/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-2	10/17/08	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-2	04/21/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-2	10/26/09	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-2	05/24/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-2	10/07/10	<100	<100	---	---	---	<0.50	---	---	---	<0.50	<0.50	<10	---	---	---
WCW-2	04/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-2	10/13/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-2	04/17/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
WCW-2	10/18/12	---	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
WCW-3	11/25/96	120	---	<500	<500	---	<0.70	<0.50	<0.50	<1.5	190	<5	---	---	---	---
WCW-3	07/15/97	100	---	<500	---	---	<0.50	<0.50	<0.50	<1	190	<5	---	---	---	---
WCW-3	01/05/98	<500	---	200	<100	---	<0.50	<0.50	<0.50	<1	220	<0.50	---	---	---	---
WCW-3	05/23/98	<300	---	---	---	---	<0.50	<0.50	<0.50	<1	201	<0.50	---	---	---	---
WCW-3	08/26/98	<300	---	---	---	304	<2.5	<2.5	<2.5	<2.5	200	<2.5	---	---	---	---
WCW-3	11/03/98	<300	---	---	---	228	<0.50	<0.50	<0.50	<0.50	190	<0.50	---	---	---	---
WCW-3	02/03/99	<1000	---	<500	---	---	<1	<1	<1	<2	200	<1	---	---	---	---
WCW-3	05/06/99	<500	---	<500	---	---	<0.50	1.3	<0.50	<0.50	<1	1.1	---	---	---	---
WCW-3	08/10/99	<500	---	<1000	---	---	<0.50	<1	<1	<1	130	1.8	---	---	---	---
WCW-3	11/17/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	100	3.3	---	---	---	---
WCW-3	02/28/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	100	<0.50	---	---	---	---
WCW-3	05/18/00	<300	---	---	---	110	<0.50	<0.50	<0.50	<0.50	92	1.0	---	---	---	---
WCW-3	08/28/00	<300	---	---	---	200	<0.50	<0.50	<0.50	<0.50	90	0.70	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
WCW-3	11/30/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	68	<0.50	---	---	---	---
WCW-3	02/05/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	81	<0.50	---	---	---	---
WCW-3	05/09/01	<300	---	---	---	120	<0.50	<0.50	<0.50	<0.50	63	<0.50	---	---	---	---
WCW-3	09/19/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	69	<0.50	---	---	---	---
WCW-3	11/08/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	51	<0.50	---	---	---	---
WCW-3	01/30/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	34	<0.50	---	---	---	---
WCW-3	04/09/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	29	<0.50	---	---	---	---
WCW-3	07/30/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	47	0.55	---	---	---	---
WCW-3	10/24/02	<300	---	---	---	<100	<0.50	<1	<1	<1	39	<1	---	---	---	---
WCW-3	01/28/03	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	44	<0.50	---	---	---	---
WCW-3	04/10/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	34	<0.50	---	---	---	---
WCW-3	07/30/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	23	<0.50	---	---	---	---
WCW-3	10/11/03	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	22	<0.50	---	---	---	---
WCW-3	01/28/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	43	<0.50	---	---	---	---
WCW-3	05/10/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	33	<0.50	---	---	---	---
WCW-3	07/20/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	46	<0.50	---	---	---	---
WCW-3	11/03/04	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	33	<0.50	<10	<2	<2	<2
WCW-3	02/03/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	39	<0.50	---	---	---	---
WCW-3	05/05/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	31	<0.50	---	---	---	---
WCW-3	08/02/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	26	<0.50	---	---	---	---
WCW-3	11/05/05	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	19	<0.50	<10	<2	<2	<2
WCW-3	02/28/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	8.8	<0.50	---	---	---	---
WCW-3	05/05/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	10	<0.50	---	---	---	---
WCW-3	09/20/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	16	<0.50	---	---	---	---
WCW-3	12/05/06	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	6.6	<0.50	<10	<2	<2	<2
WCW-3	03/13/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-3	05/01/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-3	08/28/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-3	11/13/07	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-3	02/21/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-3	04/18/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-3	08/13/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	3.6	<0.50	---	---	---	---
WCW-3	10/17/08	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	1.3	<0.50	<10	<2	<2	<2
WCW-3	02/23/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	---	---	---
WCW-3	04/21/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-3	07/20/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	1.7	<0.50	<10	<1	<1	<1
WCW-3	10/26/09	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	4.0	<0.50	<10	0.44 J	<2	<2
WCW-3	03/15/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	3.5	<0.50	<10	<1	<1	<1
WCW-3	05/24/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	2.8	<0.50	<10	<1	<1	<1
WCW-3	07/12/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	4.4	<0.50	<10	<1	<1	<1
WCW-3	10/08/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	2.8	<0.50	<10	<1	<1	<1
WCW-3	01/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	3.3	<0.50	<10	<1	<1	<1
WCW-3	04/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	4.1	<0.50	<10	<1	<1	<1
WCW-3	07/12/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	4.5	<0.50	<10	<1	<1	<1
WCW-3	10/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	3.4	<0.50	<10	<1	<1	<1
WCW-3	01/09/12	< 50	---	---	---	< 100	< 0.5	< 0.5	< 0.5	< 0.5	2.3	< 0.5	< 10	< 1	< 1	< 1
WCW-3	04/17/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	3.2	< 0.5	< 10	< 1	< 1	< 1
WCW-3	07/09/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	2.2	< 0.5	< 10	< 1	< 1	< 1
WCW-3	10/16/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	1.7	< 0.5	< 10	< 1	< 1	< 1
WCW-4	11/22/96	<50	---	<500	<500	---	<0.50	<0.50	<0.50	<1.5	<0.50	<5	---	---	---	---
WCW-4	07/08/97	<100	---	<500	---	---	0.50	0.78	<0.50	<1	<0.50	<5	---	---	---	---
WCW-4	01/05/98	<500	---	<100	300	---	<0.50	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
WCW-4	05/19/98	<300	---	---	---	---	<0.50	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
WCW-4	11/03/98	<300	---	---	---	475	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-4	05/06/99	<500	---	<500	---	---	2.1	7.7	0.62	3.4	<1	<0.50	---	---	---	---
WCW-4	11/17/99	<300	---	---	---	110	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-4	05/18/00	<300	---	---	---	120	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-4	11/30/00	<300	---	---	---	160	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-4	05/09/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-4	11/08/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-4	04/09/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-4	10/24/02	<300	---	---	---	<100	<0.50	<1	<1	<1	<0.50	<1	---	---	---	---
WCW-4	04/10/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-4	10/11/03	<100	---	---	---	280	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
WCW-4	05/10/04	<50	---	---	---	120	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-4	11/03/04	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-4	05/05/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-4	11/05/05	<100	---	---	---	110	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-4	05/05/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-4	12/05/06	<100	---	---	---	120	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-4	05/01/07	<50	---	---	---	250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-4	11/13/07	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.72	<10	<2	<2	<2
WCW-4	04/18/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.61	---	---	---	---
WCW-4	10/17/08	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	0.65	<10	<2	<2	<2
WCW-4	04/21/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.51	<10	<1	<1	<1
WCW-4	10/26/09	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	0.64	<10	<2	<2	<2
WCW-4	05/27/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-4	10/07/10	<100	130	---	---	---	<0.50	---	---	---	<0.50	0.89	<10	---	---	---
WCW-4	04/13/11	<50	---	---	---	120	<0.50	<0.50	<0.50	<0.50	<0.50	0.70	<10	<1	<1	<1
WCW-4	10/14/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	0.62	<10	<2	<2	<2
WCW-4	04/18/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.59	< 10	< 1	< 1	< 1
WCW-4	10/18/12	---	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	0.53	< 10	< 2.0	< 2.0	< 2.0
WCW-5	11/22/96	<50	---	<500	<500	---	<0.50	<0.50	<0.50	<1.5	<0.50	<5	---	---	---	---
WCW-5	07/08/97	<100	---	<500	---	---	<0.50	7.7	<0.50	1.4	<0.50	<5	---	---	---	---
WCW-5	01/05/98	<500	---	<100	<100	---	<0.50	<0.50	<0.50	<1	0.70	<0.50	---	---	---	---
WCW-5	05/19/98	<300	---	---	---	---	<0.50	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
WCW-5	11/04/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-5	05/05/99	<500	---	<500	---	---	10	43	3.8	21	<1	<0.50	---	---	---	---
WCW-5	11/17/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-5	05/16/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-5	11/30/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-5	05/10/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-5	11/08/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-5	04/11/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-5	10/24/02	<300	---	---	---	<100	<0.50	<1	<1	<1	<0.50	<1	---	---	---	---
WCW-5	04/10/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-5	10/11/03	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-5	05/10/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-5	11/03/04	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-5	05/06/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-5	11/05/05	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-5	05/05/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-5	12/05/06	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-5	05/01/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-5	11/13/07	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-5	04/18/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-5	10/17/08	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-5	04/21/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-5	10/26/09	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-5	05/25/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-5	10/07/10	<100	<100	---	---	---	<0.50	---	---	---	<0.50	<0.50	<10	---	---	---
WCW-5	04/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-5	10/14/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-5	04/17/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
WCW-5	10/18/12	---	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
WCW-6	11/22/96	230	---	<500	<500	---	<0.50	<0.50	<0.50	<1.5	220	24	---	---	---	---
WCW-6	07/15/97	<100	---	<500	---	---	<0.50	<0.50	<0.50	<1	65	10	---	---	---	---
WCW-6	01/05/98	<500	---	<100	<100	---	<0.50	<0.50	<0.50	<1	159	3.0	---	---	---	---
WCW-6	05/26/98	<300	---	---	---	---	<0.50	<0.50	<0.50	<1	83	2.0	---	---	---	---
WCW-6	11/04/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	46	1.8	---	---	---	---
WCW-6	05/06/99	<500	---	<500	---	---	<0.50	<0.50	<0.50	<0.50	53	0.68	---	---	---	---
WCW-6	11/17/99	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	11	<0.50	---	---	---	---
WCW-6	05/16/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	16	0.70	---	---	---	---
WCW-6	11/30/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	2.7	<0.50	---	---	---	---
WCW-6	05/09/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	5.7	<0.50	---	---	---	---
WCW-6	11/08/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	2.7	<0.50	---	---	---	---
WCW-6	04/11/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	1.7	<0.50	---	---	---	---
WCW-6	10/24/02	<300	---	---	---	<100	<0.50	<1	<1	<1	<0.50	<1	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
WCW-6	04/10/03	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	1.4	<0.50	---	---	---	---
WCW-6	10/11/03	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	0.93	<0.50	---	---	---	---
WCW-6	05/10/04	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	0.64	<0.50	---	---	---	---
WCW-6	11/03/04	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-6	05/05/05	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-6	11/05/05	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	1.1	<0.50	<10	<2	<2	<2
WCW-6	05/05/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-6	12/05/06	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-6	05/02/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-6	11/13/07	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-6	04/18/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-6	10/17/08	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-6	04/21/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-6	10/26/09	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-6	05/24/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-6	10/07/10	<100	<100	---	---	---	<0.50	---	---	---	<0.50	<0.50	<10	---	---	---
WCW-6	04/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	0.69	<0.50	<10	<1	<1	<1
WCW-6	10/13/11	---	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	0.28 J	<0.50	<10	<2	<2	<2
WCW-6	04/18/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
WCW-6	10/18/12	---	< 100	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
WCW-7	11/22/96	<50	---	<500	<500	---	<0.50	<0.50	<0.50	<1.5	31	<5	---	---	---	---
WCW-7	07/15/97	<100	---	<500	---	---	<0.50	<0.50	<0.50	<1	<0.50	<5	---	---	---	---
WCW-7	01/05/98	<500	---	<100	<100	---	<0.50	<0.50	<0.50	<1	30	<0.50	---	---	---	---
WCW-7	05/23/98	<300	---	---	---	---	<0.50	<0.50	<0.50	<1	30	<0.50	---	---	---	---
WCW-7	11/04/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	35	<0.50	---	---	---	---
WCW-7	05/06/99	<500	---	<500	---	---	<0.50	<0.50	<0.50	<0.50	45	<0.50	---	---	---	---
WCW-7	11/18/99	<300	---	---	---	190	<0.50	<1	<0.50	0.60	62	1.3	---	---	---	---
WCW-7	05/16/00	<300	---	---	---	420	<0.50	<0.50	<0.50	<0.50	120	6.4	---	---	---	---
WCW-7	11/30/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	83	6.0	---	---	---	---
WCW-7	02/05/01	<300	---	---	---	230	<0.50	<0.50	<0.50	<0.50	95	6.1	---	---	---	---
WCW-7	05/10/01	<300	---	---	---	180	<0.50	<0.50	<0.50	<0.50	91	9.3	---	---	---	---
WCW-7	09/18/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	140	12	---	---	---	---
WCW-7	11/08/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	91	11	---	---	---	---
WCW-7	01/30/02	<300	---	---	---	110	<0.50	<0.50	<0.50	<0.50	84	8.8	---	---	---	---
WCW-7	04/11/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	66	8.4	---	---	---	---
WCW-7	07/30/02	<300	---	---	---	260	<0.50	<0.50	<0.50	<0.50	74	8.6	---	---	---	---
WCW-7	10/24/02	<300	---	---	---	<100	<0.50	<1	<1	<1	78	9.3	---	---	---	---
WCW-7	01/28/03	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	80	7.3	---	---	---	---
WCW-7	04/10/03	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	69	6.8	---	---	---	---
WCW-7	07/30/03	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	69	7.6	---	---	---	---
WCW-7	10/11/03	<100	---	---	---	260	<0.50	<0.50	<0.50	<0.50	84	9.4	---	---	---	---
WCW-7	01/28/04	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	100	10	---	---	---	---
WCW-7	05/10/04	<100	---	---	---	170	<0.50	<0.50	<0.50	<0.50	73	6.7	---	---	---	---
WCW-7	07/20/04	140	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	110	9	---	---	---	---
WCW-7	11/03/04	<100	---	---	---	330	<0.50	<0.50	<0.50	<0.50	84	11	51	29	<2	<2
WCW-7	02/03/05	72	---	---	---	110	<0.50	<0.50	<0.50	<0.50	91	8.8	---	---	---	---
WCW-7	05/05/05	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	83	6.9	---	---	---	---
WCW-7	08/03/05	53	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	49	14	---	---	---	---
WCW-7	11/05/05	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	14	6.7	<10	2.2	<2	<2
WCW-7	02/28/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	2.5	0.84	---	---	---	---
WCW-7	05/05/06	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	6	2.5	---	---	---	---
WCW-7	09/20/06	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	33	7.2	---	---	---	---
WCW-7	12/05/06	<100	---	---	---	210	<0.50	<0.50	<0.50	<0.50	36	8	<10	4.8	<2	<2
WCW-7	03/13/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	32	5.4	---	---	---	---
WCW-7	05/02/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	49	6.4	---	---	---	---
WCW-7	08/28/07	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	56	7.1	---	---	---	---
WCW-7	11/14/07	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	50	6.5	<10	9.2	<2	<2
WCW-7	02/21/08	<50	---	---	---	110	<0.50	<0.50	<0.50	<0.50	43	5.9	---	---	---	---
WCW-7	04/18/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	54	5.9	---	---	---	---
WCW-7	08/13/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	55	5.3	---	---	---	---
WCW-7	10/17/08	<100	100	---	---	---	<0.50	<0.50	<0.50	<0.50	45	5.4	<10	12	<2	<2
WCW-7	02/24/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	40	2.4	<10	---	---	---
WCW-7	04/22/09	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	40	2.8	<10	6.6	<1	<1
WCW-7	07/21/09	<50	---	---	---	120	<0.50	<0.50	<0.50	<0.50	31	1.9	<10	5.6	<1	<1

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toulene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																
WCW-7	10/26/09	<100	<100	---	---	---	<0.50	<0.50	<0.50	<0.50	40	1.8	<10	3.7	<2	<2
WCW-7	03/15/10	<50	---	---	---	130	<0.50	<0.50	<0.50	<0.50	30	1.8	<10	4	<1	<1
WCW-7	05/27/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	23	1.2	<10	3.3	<1	<1
WCW-7	07/13/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	20	1.6	<10	3.4	<1	<1
WCW-7	10/07/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	26	1.7	<10	3.9	<1	<1
WCW-7	01/11/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	25	1.4	<10	3.3	<1	<1
WCW-7	04/13/11	<50	---	---	---	130	<0.50	<0.50	<0.50	<0.50	23	1.4	<10	3.9	<1	<1
WCW-7	07/12/11	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	21	1.2	<10	2.6	<1	<1
WCW-7	10/12/11	<500	---	---	---	120	<0.50	<0.50	<0.50	<0.50	21	1	<10	2.2	<1	<1
WCW-7	01/09/12	< 50	---	---	---	100	< 0.5	< 0.5	< 0.5	< 0.5	16	1.1	< 10	2.1	< 1	< 1
WCW-7	04/18/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	18	0.98	< 10	2.2	< 1	< 1
WCW-7	07/10/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	16	0.84	< 10	2.1	< 1	< 1
WCW-7 DUP	07/10/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	15	0.71	< 10	1.6	< 1	< 1
WCW-7	10/17/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	9.2	0.56	< 10	1.5	< 1	< 1
WCW-8	11/22/96	84	---	<500	<500	---	<0.50	<0.50	<0.50	<1.5	0.5	<5	---	---	---	---
WCW-8	07/15/97	<100	---	1,700	---	---	<0.50	<0.50	<0.50	<1	<0.50	<5	---	---	---	---
WCW-8	01/05/98	<500	---	<100	1,300	---	<0.50	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
WCW-8	05/26/98	<300	---	---	---	---	<0.50	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
WCW-8	11/03/98	<300	---	---	---	2,590	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-8	05/06/99	<500	---	<500	---	---	<0.50	<0.50	<0.50	<0.50	<1	<0.50	---	---	---	---
WCW-8	11/18/99	<300	---	---	---	1,100	<0.50	<1	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-8	05/16/00	<300	---	---	---	1,500	<0.50	<0.50	<0.50	<0.50	1.8	120	---	---	---	---
WCW-8	08/28/00	<300	---	---	---	1,100	<0.50	<0.50	<0.50	<0.50	0.7	<0.50	---	---	---	---
WCW-8	11/30/00	<300	---	---	---	790	0.9	<0.50	<0.50	0.8	<0.50	<0.50	---	---	---	---
WCW-8	02/05/01	<300	---	---	---	940	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-8	05/09/01	<300	---	---	---	520	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-8	09/18/01	<300	---	---	---	380	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-8	11/08/01	<300	---	---	---	220	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-8	01/30/02	<300	---	---	---	530	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-8	04/11/02	<300	---	---	---	470	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-8	10/24/02	<300	---	---	---	360	<0.50	<1	<1	<1	<0.50	<1	---	---	---	---
WCW-8	04/10/03	61	---	---	---	270	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-8	10/11/03	<100	---	---	---	430	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-8	05/10/04	55	---	---	---	160	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-8	11/03/04	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-8	05/05/05	<50	---	---	---	100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-8	11/05/05	<100	---	---	---	210	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-8	05/05/06	<50	---	---	---	110	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-8	12/05/06	<100	---	---	---	450	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-8	05/02/07	<50	---	---	---	160	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-8	11/14/07	<100	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<2	<2	<2
WCW-8	04/18/08	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	0.6	---	---	---	---
WCW-8	10/17/08	<100	230	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	<10	<2	<2	<2
WCW-8	04/21/09	<50	---	---	---	210	<0.50	<0.50	<0.50	<0.50	<0.50	0.59	<10	<1	<1	<1
WCW-8	10/26/09	<100	200	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	<10	<2	<2	<2
WCW-8	05/27/10	<50	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1	<1	<1
WCW-8	10/07/10	<100	200	---	---	---	<0.50	---	---	---	<0.50	0.9	3.7 J	---	---	---
WCW-8	04/13/11	<50	---	---	---	130	<0.50	<0.50	<0.50	<0.50	<0.50	0.96	<10	<1	<1	<1
WCW-8	10/14/11	---	170	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	0.92	<10	<2	<2	<2
WCW-8	04/19/12	< 50	---	< 50	---	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.89	< 10	< 1	< 1	< 1
WCW-8	10/18/12	---	130	---	---	---	< 0.50	< 0.50	< 0.50	< 1.0	0.50	< 0.50	< 10	< 2.0	< 2.0	< 2.0
WCW-9	11/22/96	<50	---	<500	<500	---	<0.50	<0.50	<0.50	<1.5	<0.50	<5	---	---	---	---
WCW-9	07/08/97	<100	---	<500	---	---	<0.50	1.1	<0.50	1.1	<0.50	<5	---	---	---	---
WCW-9	01/05/98	<500	---	<100	<100	---	<0.50	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
WCW-9	05/19/98	---	---	---	---	---	<0.50	<0.50	<0.50	<1	<0.50	<0.50	---	---	---	---
WCW-9	11/03/98	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-9	05/06/99	<500	---	<500	---	---	<0.50	<0.50	<0.50	<0.50	<1	<0.50	---	---	---	---
WCW-9	11/18/99	<300	---	---	---	<100	<0.50	<1	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-9	05/16/00	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-9	11/30/00	<300	---	---	---	<100	0.6	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-9	05/10/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-9	11/08/01	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---
WCW-9	04/11/02	<300	---	---	---	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---

TABLE 9
HISTORICAL ANALYTICAL RESULTS FOR TPH, BTEX, 1-2 DCA, MTBE, TBA, DIPE, ETBE, AND TAME IN GROUNDWATER
NOVEMBER 1996 THROUGH OCTOBER 2012

Defense Fuel Support Point, Norwalk, California

Well	Date Sampled	TPH as Gasoline	TPH as JP-5 ¹	TPH as Diesel	TPH as JP-4 ²	TPH as FP ³	Benzene	Toulene	Ethylbenzene	Total Xylenes	1,2-DCA ⁴	MTBE ⁵	TBA ⁶	DIPE ⁷	ETBE ⁸	TAME ⁹
Results reported in micrograms per liter (µg/L)																

Notes:

1. JP-5 = jet propellant No. 5
2. JP-4 = jet propellant No. 4
3. FP = fuel product (collected from north-central plume)
4. 1,2-DCA = 1,2-dichloroethane
5. MTBE = methyl tert-butyl ether
6. TBA = tert-Butyl Alcohol
7. DIPE = di-isopropyl ether
8. ETBE = ethyl tertiary butyl ether
9. TAME = tertiary amyl methyl ether
10. --- = not analyzed
11. <100 = not detected above the indicated laboratory reporting limit
12. DUP = duplicate sample
13. J = Estimated value

FIGURES

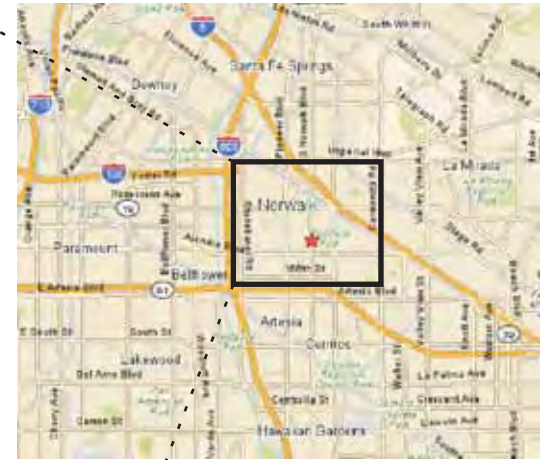


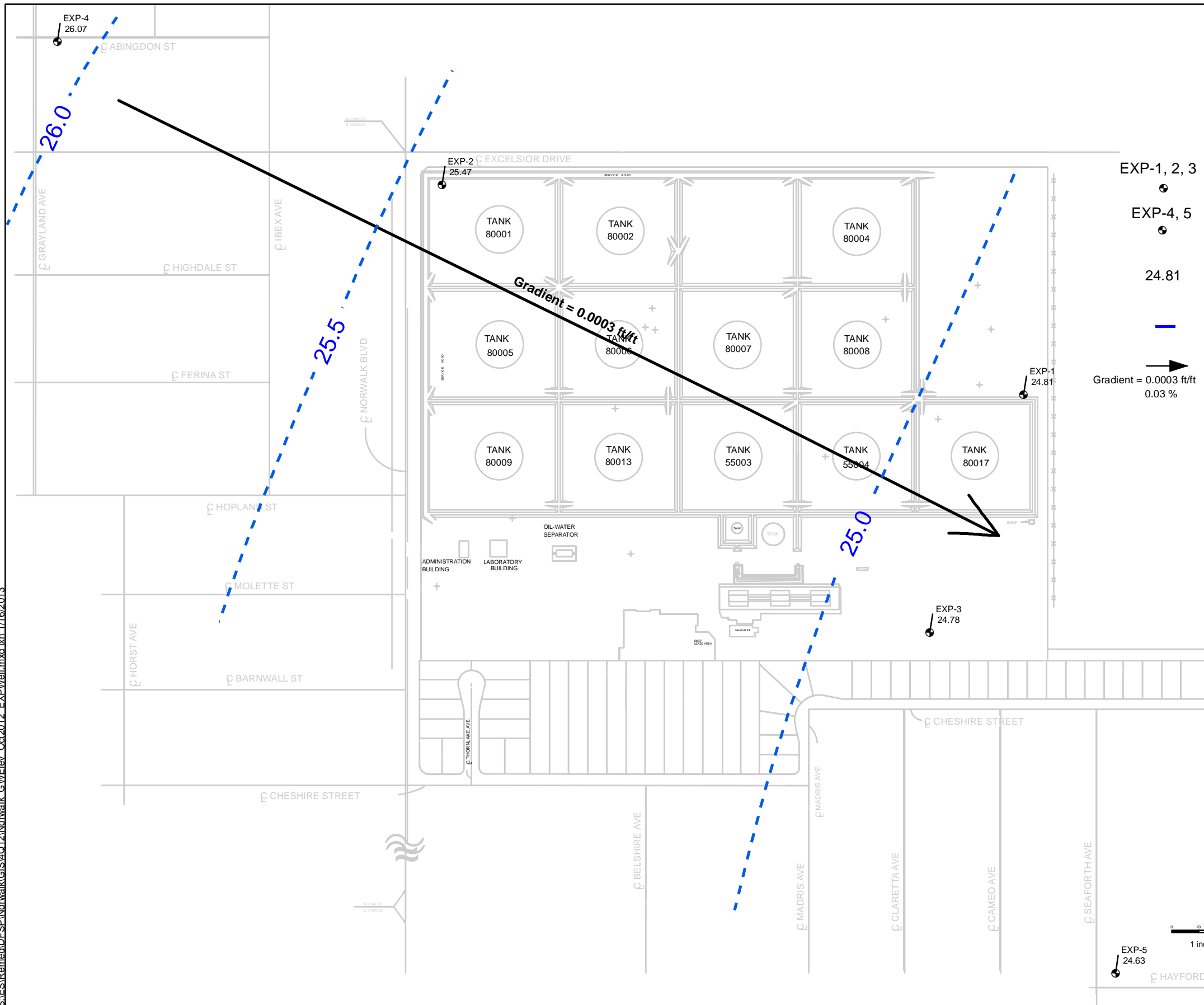
Figure 1
SITE LOCATION MAP

DFSP NORWALK
15306 Norwalk Blvd.
Norwalk, California

PARSONS

Pasadena, California

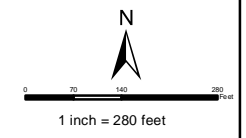
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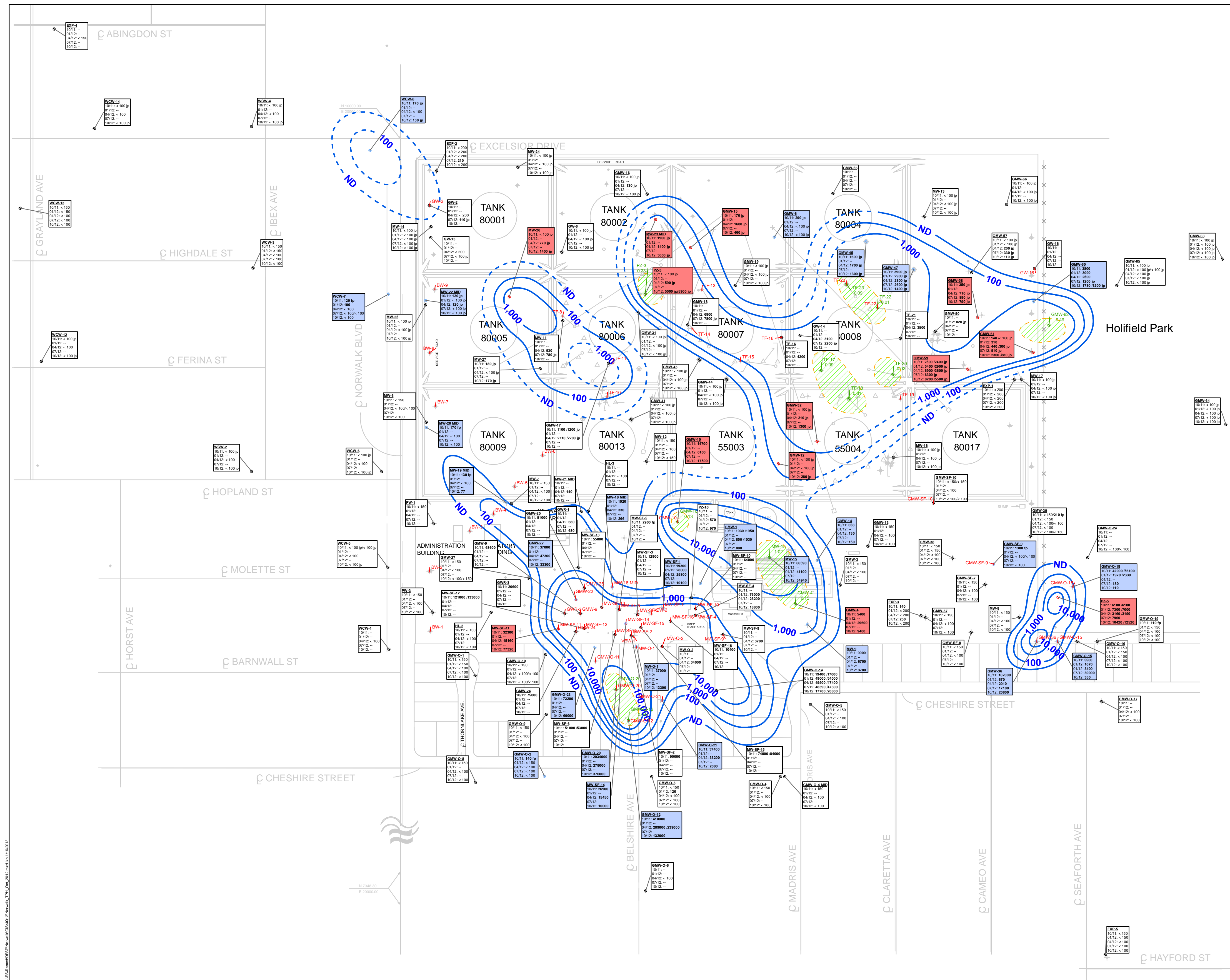


LEGEND

- EXP-1, 2, 3
● GROUNDWATER MONITORING WELL INSTALLED BY WOODWARD CLYDE IN THE EXPOSITION AQUIFER (1992)
- EXP-4, 5
● GROUNDWATER MONITORING WELL INSTALLED BY GEOMATRIX IN THE EXPOSITION AQUIFER (1998)
- 24.81
GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL MEASURED OCTOBER 15, 2012
- GROUNDWATER EQUIPOTENTIAL LINE (FEET ABOVE MSL), DASHED WHERE INFERRED CONTOUR INTERVAL = 0.50 FEET
- APPROXIMATE GROUNDWATER FLOW DIRECTION AND HORIZONTAL HYDRAULIC GRADIENT IN FEET PER FOOT AND PERCENT
Gradient = 0.0003 ft/ft
0.03 %

FIGURE 3
GROUNDWATER EQUIPOTENTIAL MAP FOR EXPOSITION AQUIFER
OCTOBER 15, 2012
 DFSP Norwalk
 Norwalk, CA
PARSONS
 Pasadena, California





LEGEND

GW-0-24
 10/11: 4500
 04/12: 100
 07/12: 100
 10/12: 100

GW-0-18
 10/11: 4500 56100
 01/12: 1970 2330
 04/12: 100
 07/12: 100
 10/12: 100

EX-1
 10/11: 6100 6100
 01/12: 2300 7900
 04/12: 3100 3100
 07/12: 7900
 10/12: 16000 12320

< 5 Not Detected at or above the indicated laboratory reporting limit (µg/L)

< 5/< 5 Primary Sample Analytical Result / Duplicate Sample Analytical Result (µg/L)

ND Not Sampled/Not Analyzed

1,000 Lines of Equal concentration (µg/L) in groundwater, dashed where inferred

ND Estimated extent of detected dissolved concentration in groundwater (concentration dependent on laboratory reporting limit), dashed where inferred

Estimated extent of measurable light nonaqueous phase hydrocarbons (LNAPL, free product) on groundwater. Extent of free product is based on historical thicknesses and thicknesses as measured and shown on Figure 2, dashed where inferred.

▲ Extraction Well Used for Site Remediation

J Estimated Value

SURVEY NOTES:

1. Base map prepared from data provided by Fluor Daniel GTI, Dulin & Boynton, and Geomatrix.
2. Except as noted below, well locations surveyed by Dulin & Boynton.
3. Locations of well HL-1, HL-3, and HL-4 based on field measurements by Fluor Daniel GTI and Woodward-Clyde.
4. Locations of wells BW-1 through BW-9 surveyed by Geomatrix based on reference to other wells surveyed by Dulin & Boynton.

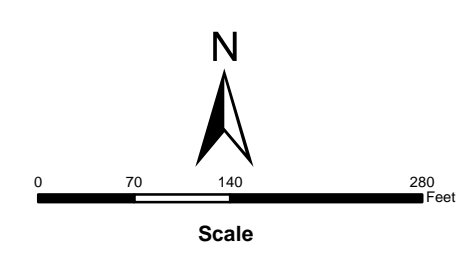


FIGURE 4
TOTAL PETROLEUM HYDROCARBONS
IN UPPERMOST GROUNDWATER ZONE
OCTOBER 2012
 DFSF Norwalk
 Norwalk, CA
PARSONS
 Pasadena, California

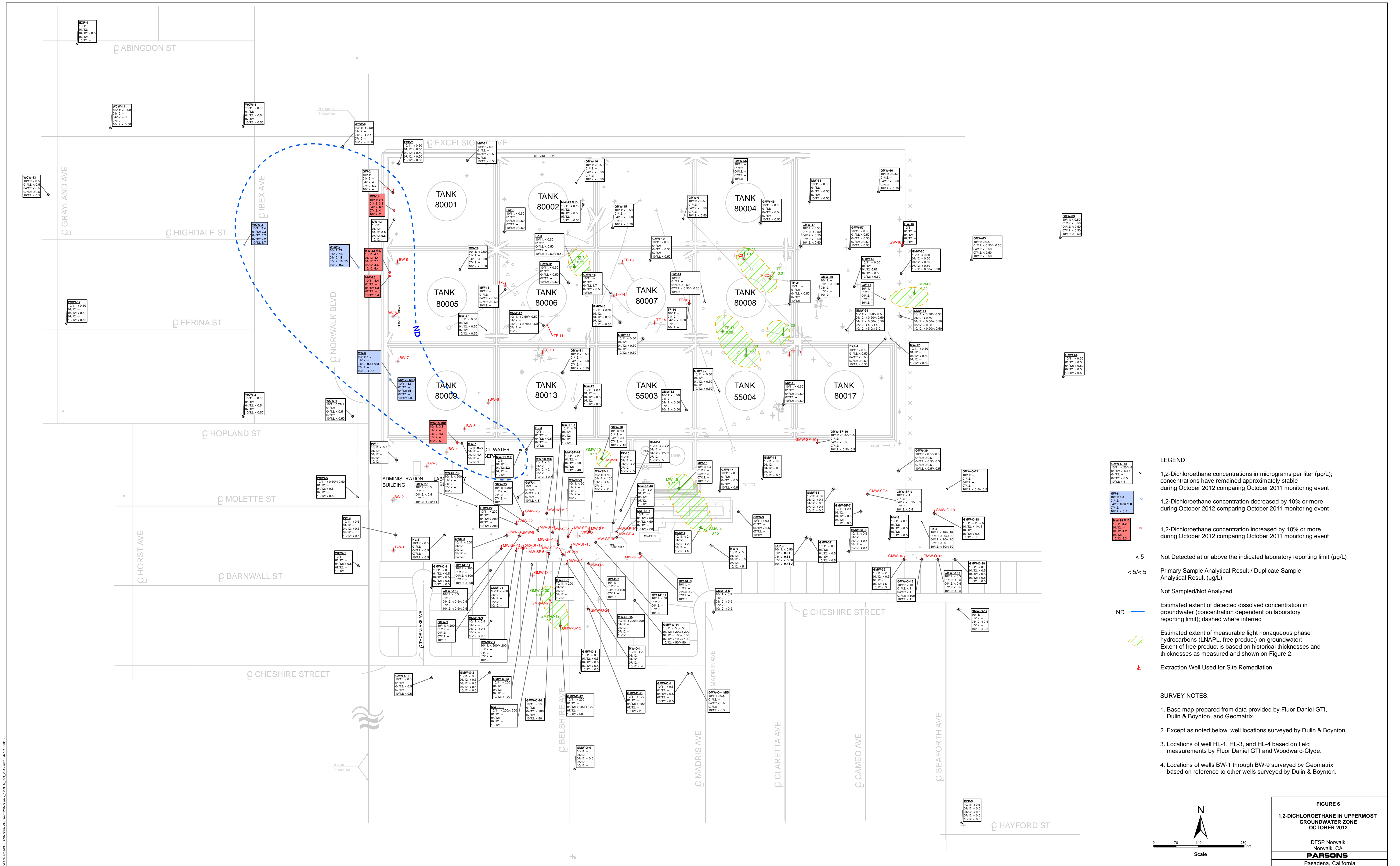
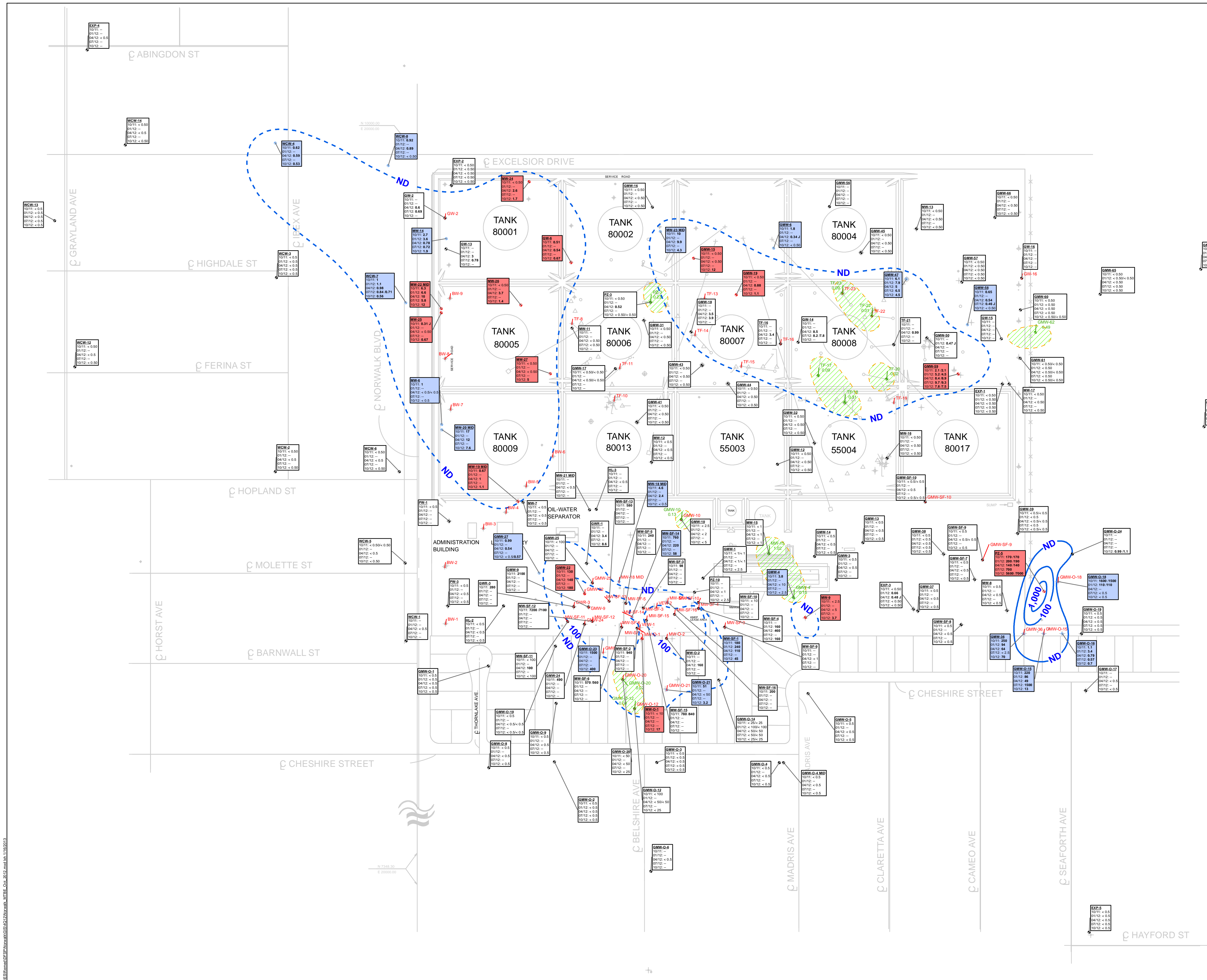


FIGURE 6
1,2-DICHLOROETHANE IN UPPERMOST GROUNDWATER ZONE OCTOBER 2012
 DFSP Norwalk
 Norwalk, CA
PARSONS
 Pasadena, California



LEGEND

Methyl tert-butyl ether concentrations in micrograms per liter (µg/L); concentrations have remained approximately stable during October 2012 comparing October 2011 monitoring event
Methyl tert-butyl ether concentration decreased by 10% or more during October 2012 comparing October 2011 monitoring event
Methyl tert-butyl ether concentration increased by 10% or more during October 2012 comparing October 2011 monitoring event
 < 5 Not Detected at or above the indicated laboratory reporting limit (µg/L)
 < 5/< 5 Primary Sample Analytical Result / Duplicate Sample Analytical Result (µg/L)
 -- Not Sampled/Not Analyzed
 ND Estimated extent of detected dissolved concentration in groundwater (concentration dependent on laboratory reporting limit); dashed where inferred
Estimated extent of measurable light nonaqueous phase hydrocarbons (LNAPL, free product) on groundwater; Extent of free product is based on historical thicknesses and thicknesses as measured and shown on Figure 2; dashed where inferred.
▲ Extraction Well Used for Site Remediation

SURVEY NOTES:

1. Base map prepared from data provided by Fluor Daniel GTI, Dulin & Boynton, and Geomatrix.
2. Except as noted below, well locations surveyed by Dulin & Boynton.
3. Locations of well HL-1, HL-3, and HL-4 based on field measurements by Fluor Daniel GTI and Woodward-Clyde.
4. Locations of wells BW-1 through BW-9 surveyed by Geomatrix based on reference to other wells surveyed by Dulin & Boynton.

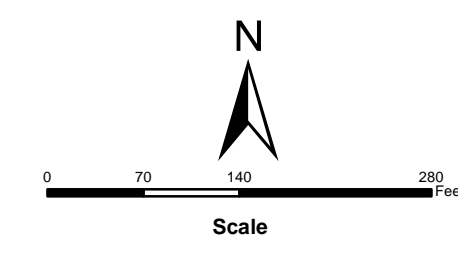
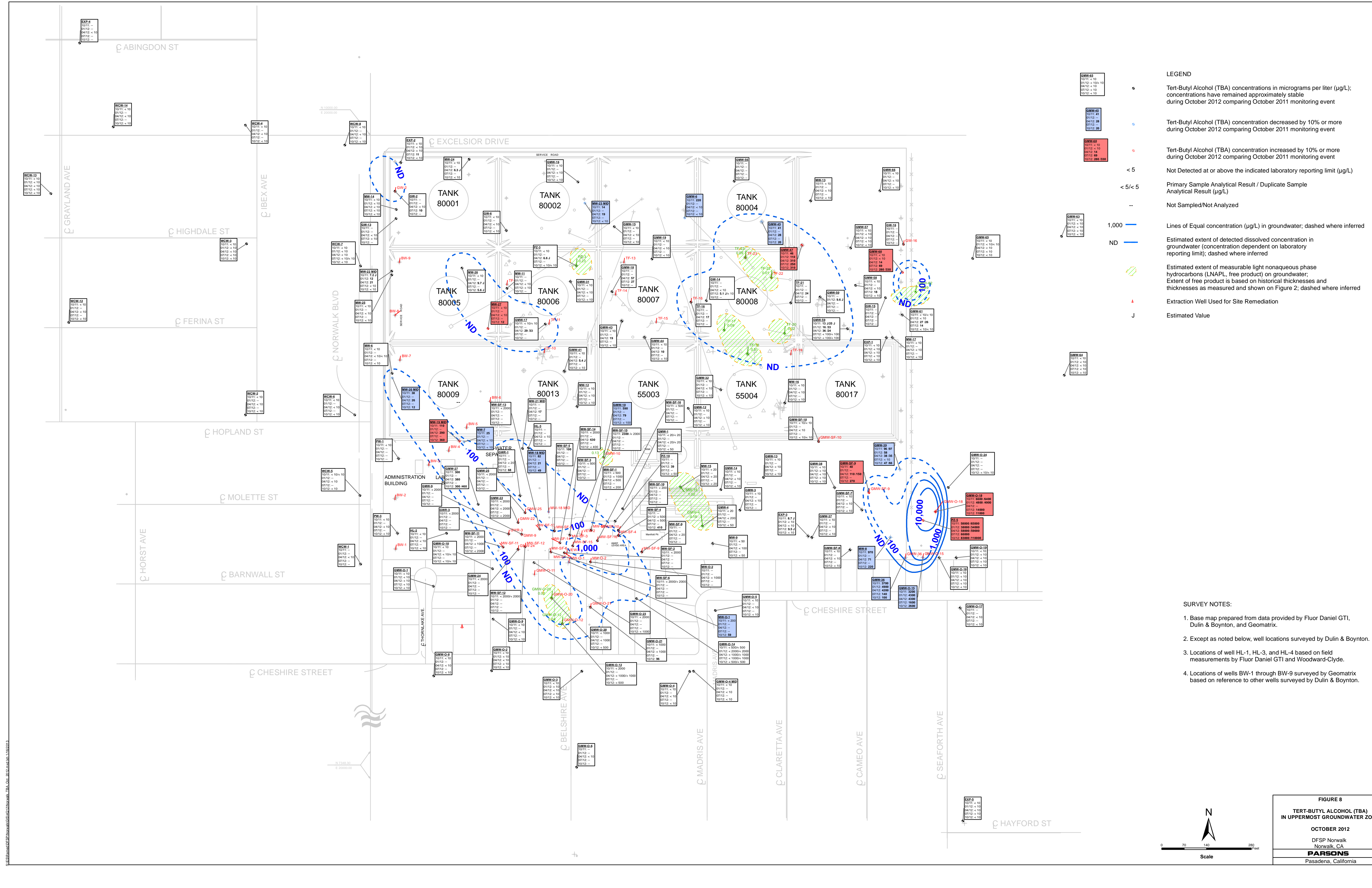


FIGURE 7
METHYL TERT-BUTYL ETHER
IN UPPERMOST GROUNDWATER ZONE
 OCTOBER 2012
 DFSP Norwalk
 Norwalk, CA
PARSONS
 Pasadena, California

S:\Projects\DFSP\Norwalk\GIS\MapDocs\MapDocs\MTHB_C01_037.mxd 11/15/2013



LEGEND

- Tert-Butyl Alcohol (TBA) concentrations in micrograms per liter (µg/L); concentrations have remained approximately stable during October 2012 comparing October 2011 monitoring event
- Tert-Butyl Alcohol (TBA) concentration decreased by 10% or more during October 2012 comparing October 2011 monitoring event
- Tert-Butyl Alcohol (TBA) concentration increased by 10% or more during October 2012 comparing October 2011 monitoring event
- < 5 Not Detected at or above the indicated laboratory reporting limit (µg/L)
- < 5/< 5 Primary Sample Analytical Result / Duplicate Sample Analytical Result (µg/L)
- Not Sampled/Not Analyzed
- 1,000 Lines of Equal concentration (µg/L) in groundwater; dashed where inferred
- ND Estimated extent of detected dissolved concentration in groundwater (concentration dependent on laboratory reporting limit); dashed where inferred
- Estimated extent of measurable light nonaqueous phase hydrocarbons (LNAPL, free product) on groundwater; Extent of free product is based on historical thicknesses and thicknesses as measured and shown on Figure 2; dashed where inferred
- J Extraction Well Used for Site Remediation
- Estimated Value

- SURVEY NOTES:**
1. Base map prepared from data provided by Fluor Daniel GTI, Dulin & Boynton, and Geomatrix.
 2. Except as noted below, well locations surveyed by Dulin & Boynton.
 3. Locations of well HL-1, HL-3, and HL-4 based on field measurements by Fluor Daniel GTI and Woodward-Clyde.
 4. Locations of wells BW-1 through BW-9 surveyed by Geomatrix based on reference to other wells surveyed by Dulin & Boynton.

N

Scale 0 70 140 280 Feet

FIGURE 8
TERT-BUTYL ALCOHOL (TBA)
IN UPPERMOST GROUNDWATER ZONE
 OCTOBER 2012
 DFSP Norwalk
 Norwalk, CA
PARSONS
 Pasadena, California

APPENDICES (CD ROM Only)

- Appendix A Well Gauging, Purging, and Sampling Records - July 2012 Sentry Event
- Appendix B Well Gauging, Purging, and Sampling Records - October 2012 Semiannual Event
- Appendix C Laboratory Analytical Reports and Chain-of-Custody Documents - July 2012 Sentry Event
- Appendix D Laboratory Analytical Reports and Chain-of-Custody Documents - October 2012 Semiannual Event
- Appendix E Summary of KMEP Monthly Sampling Events Conducted During Second Semiannual 2012 in the 24-Inch Block Valve Area

APPENDIX A

**Well Gauging, Purging, and Sampling Records
July 2012 Sentry Event**

DFSP Norwalk Semiannual GWM - July 2012
Gauging Data

Page 1 of 4

Well No.	Date	Time	DTP	DTW	Notes
EXP-1	07-05-12	1237	-	53.02	
EXP-2	07-05-12	0804	-	53.37	
EXP-3	07-06-12	1131	-	52.16	
GMW-5	07-05-12	0953	-	31.77	
GMW-6	07-05-12	1006	-	31.32	
GMW-7	07-05-12	1413	29.86	30.02	
GMW-12	7-6-12	1316		29.14	
GMW-15	07-05-12	0959	-	30.25	
GMW-16	07-05-12	0853	-	31.09	
GMW-17	07-06-12	0823	-	28.71	
GMW-18	07-06-12	0702	-	29.19	
GMW-19	07-05-12	1407	-	30.87	
GMW-20	7-6-12	1308	-	29.13	
GMW-21	07-05-12	0914	-	30.10	REMOVED CASE TO VERIFY COND. OF SOCK.
GMW-31	7-6-12	1320		30.63	
GMW-32	07-06-12	1150	-	28.56	
GMW-33	07-05-12	1300	-	-	CASINGS DAMAGED UNABLE TO RECORD
GMW-34	7-6-12	0853	-	29.13	
GMW-35	07-05-12	1316	30.02	30.17	
GMW-40	7-6-12	0839	sheen	27.23	
GMW-41	7-6-12	0904	-	28.58	
GMW-42	07-06-12	0737	-	29.62	
GMW-43	07-06-12	0656	-	28.55	
GMW-44	07-06-12	0651	-	28.85	

NO CHANGE NEEDED

DFSP Norwalk Quarterly GWM -July 2012
Gauging Data

Well No.	Date	Time	DTP	DTW	Notes
GMW-45	07.05.12	1024	-	29.75	
GMW-47	07.05.12	1048	-	29.99	
GMW-48	07.05.12	1254	-	28.20	
GMW-50	07.05.12	1251	-	29.46	
GMW-51	07.05.12	1247	-	29.80	
GMW-52	07.06.12	1145	-	28.89	
GMW-53	07.06.12	1142	-	28.78	
GMW-54	7-6-12	0835	-	29.08	
GMW-55	7-6-12	0840	-	-	Well' damaged
GMW-56	07.05.12	1015	-	30.46	
GMW-57	07.05.12	1055	-	30.65	
GMW-58	7-6-12	1325	shreen	28.57	
GMW-59	07.05.12	1242	-	28.04	
GMW-60	07.06.12	1108	-	30.08	
GMW-61	07.06.12	1114	-	29.47	
GMW-62	07.06.12	1025	29.91	30.34	
GMW-63	07.06.12	0950	-	30.75	
GMW-64	07.06.12	0959	-	29.23	
GMW-65	07.06.12	1014	-	30.52	
GMW-66	07.05.12	1204	-	30.81	
GW-1	07.05.12	0733	-	30.10	
GW-2	07.05.12	0755	-	29.87	
GW-3	07.05.12	0810	-	29.97	
GW-4	07.05.12	0830	-	-	Pump in well, unable to record

DFSP Norwalk Semiannual GWM - July 2012
Gauging Data

Well No.	Date	Time	DTP	DTW	Notes
GW-5	07-05-12	0945	-	31.08	
GW-6	07-05-12	0935	-	30.51	Concrete COLLAR BROKEN
GW-7	7-6-12	1250		29.14	
GW-8	07-05-12	0845	-	30.25	
GW-13	07-05-12	0741	-	31.11	
GW-14	07-05-12	1341	-	30.64	
GW-15	7-6-12	0805	29.84	29.86	
GW-16	07-05-12	1218	30.76 ^{mc}	30.76	
MW-10	07-05-12	0939	33.17	33.19	
MW-11	07-06-12	0840	-	32.23	
MW-13	07-05-12	0741 ¹⁰⁴³ _{mc}	STEEL	31.44 _{mc}	DTW - 32.20
MW-14	07-05-12	0745	-	32.75	
MW-16	07-06-12	0853 ¹¹⁴⁰ _{mc}	-	31.07 _{mc}	30.77 - DTW
MW-17	07-05-12	1232	-	31.81	
MW-22 (MID)	7-6-12	0831	-	39.74	
MW-23 (MID)	07-05-12	0901	-	33.67	
MW-24	07-05-12	0821	-	32.66 _{mc}	32.66 - DTW
MW-25	7-6-12	0828	-	33.12	
MW-26	7-6-12	0823	-	31.38	
MW-27	7-6-12	0750	-	32.37	
MW-28	7-6-12	0900	-	32.48	
MW-29	07-06-12	1157	-	33.10	
PZ-3	7-6-12	1256	30.03	30.06	
PZ-4	7-6-12	1300	-	30.21	

WELL GAUGING DATA

Project # 120709-EV1 Date 7/9/12 Client Parsans

Site DFSP Norwalk

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
EXP-1	0735	4					52.69	128.62		7/9/12
EXP-2	0820	4					53.08	128.54		
EXP-3	0859	4					51.87	123.60		
GMW-57	0945	4					30.34	54.33		*
GMW-63	1033	4					30.49	40.08		*
GMW-64	1115	4					28.98	39.84		*
GMW-65	1213	4					30.26	40.90		
MW-2(m)	1335	4					34.56	57.60		*
MW-14	1420	4					32.37	51.85		*
GW-13	1456	6					30.80	65.78		↓
GMW-50	0730	4					28.34	53.97		7/10/12
MW-11	0804	4					31.86	51.10		*
GW-2 ^{EV} GW-2	0845	4					29.51	58.38		*
GMW-61	0930	4					29.14	39.92		*
GMW-47	1015	4					29.66	49.87		*
GMW-35	1109	4		29.80	0.10		29.90	—		*
GMW-59	1203	4					27.80	53.92	↓	↓

* = Stinger

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709-EV1	Client: Parsons
Sampler: EV	Gauging Date: 7/9/12
Well I.D.: EXP-1	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.): 128.62	Depth to Water (ft.): 52.69
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: EV Grade	Flow Cell Type: YSI Pro Plus

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other
 Start Purge Time: 0750 Flow Rate: 200ml/min Pump Depth: 97'

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 (ft.)
0753	23.0	7.26	953	6	2.39	-207.6	600	52.74
0756	23.1	7.28	977	5	1.87	-193.6	1200	52.74
0759	23.3	7.28	988	5	1.78	-190.4	1800	52.74
0802	23.4	7.29	994	4	1.71	-186.5	2400	52.74
0805	23.5	7.29	998	4	1.69	-185.3	3000	52.74
0808	23.5	7.30	999	4	1.68	-183.2	3600	52.74

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 3600 ml
Sampling Time: 0809	Sampling Date: 7/9/12
Sample I.D.: EXP-1	Laboratory: Cal Science
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See C.O.C
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709-EV1	Client: Parsons
Sampler: EV	Gauging Date: 7/9/12
Well I.D.: EXP-2	Well Diameter (in.): 2 3 ④ 6 8
Total Well Depth (ft.): 128.54	Depth to Water (ft.): 53.08
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="radio"/> PVC Grade	Flow Cell Type: YSE Pro PLUS

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0828 Flow Rate: 200ml/min Pump Depth: 105'

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 (ft.)
0831	23.2	7.29	1333	5	1.96	-143.7	600	53.19
0834	23.0	7.29	1367	4	1.38	-131.2	1200	53.19
0837	23.0	7.28	1383	4	0.99	-125.6	1800	53.19
0840	23.1	7.28	1402	4	0.83	-121.3	2400	53.19
0843	22.9	7.28	1417	3	0.79	-119.6	3000	53.20
0846	22.9	7.29	1426	3	0.77	-117.8	3600	53.20

Did well dewater? Yes <input checked="" type="radio"/> No	Amount actually evacuated: 3600 ml
Sampling Time: 0847	Sampling Date: 7/9/12
Sample I.D.: EXP-2	Laboratory: Cal Science
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: <input checked="" type="radio"/> See LOC
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709-EV1	Client: Parsons
Sampler: EV	Gauging Date: 7/9/12
Well I.D.: EXP-3	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): 123.60	Depth to Water (ft.): 51.87
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI Pro Plus

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____

Start Purge Time: 0904 Flow Rate: 200 ml/min Pump Depth: 100'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or m³)	Depth to Water (ft.)
0907	23.9	7.36	1044	7	1.14	+143.6	600	51.96
0910	24.0	7.35	1062	5	0.93	-137.4	1200	51.96
0913	24.0	7.35	1087	5	0.85	-133.2	1800	51.96
0915	23.9	7.34	1099	4	0.81	-129.6	2400	51.96
0918	24.0	7.34	1108	4	0.78	-129.1	3000	51.96
0921	24.0	7.34	1114	3	0.76	-127.4	3600	51.96

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 3600m³
Sampling Time: 0922	Sampling Date: 7/9/12
Sample I.D.: EXP-3	Laboratory: Cal Science
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See C.O.C.
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709-EV1	Client: Parsons
Sampler: <input checked="" type="checkbox"/>	Gauging Date: 7/10/12
Well I.D.: GMW-18	Well Diameter (in.): 2 3 <u>(4)</u> 6 8
Total Well Depth (ft.): 49.17	Depth to Water (ft.): 28.83
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVE Grade	Flow Cell Type: YSE ProPlus

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other

Start Purge Time: 1350 Flow Rate: 200ml/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 (ft.)
1353	25.0	6.86	1295	18	2.21	-111.4	600	28.88
1356	25.3	6.87	1238	17	1.86	-113.6	1200	28.88
1359	25.3	6.87	1192	17	1.73	-114.2	1800	28.88
1402	25.4	6.87	1164	18	1.67	-114.6	2400	28.88
1405	25.4	6.86	1161	17	1.64	-113.8	3000	28.88
1408	25.4	6.86	1158	16	1.63	-113.3	3600	28.88

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 3600ml
Sampling Time: 1409	Sampling Date: 7/10/12
Sample I.D.: GMW-18	Laboratory: Carl Severap
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See C.O.C
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709-EVI	Client: Parsons
Sampler: EV	Gauging Date: 7/10/12
Well I.D.: Gmw-35	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.):	Depth to Water (ft.): 29.90
Depth to Free Product: 29.80	Thickness of Free Product (feet): 0.10
Referenced to: PVC Grade	Flow Cell Type: _____

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 (ft.)
—	Detected 0.10' of SPH w/ interface probe.			—				
—	Performed disposable boiler test. SPH present			—				
—	NO		Sample taken			—		

Did well dewater? Yes No	Amount actually evacuated:
Sampling Time:	Sampling Date:
Sample I.D.:	Laboratory:
Analyzed for: TPH-G BTEX MTBE TPH-D Other:	
Equipment Blank I.D.:	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709-EV1	Client: Parsons
Sampler: EV	Gauging Date: 7/10/12
Well I.D.: GMW-47	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.): 49.89	Depth to Water (ft.): 29.66
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSE Pro Plus

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1020 Flow Rate: 200ml/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 (ft.)
1023	24.0	6.46	2254	10	1.04	-141.4	600	29.72
1026	24.1	6.45	2249	8	0.93	-145.7	1200	29.74
1029	24.1	6.45	2252	7	0.91	-146.4	1800	29.75
1032	21.2	6.45	2255	6	0.90	-147.8	2400	29.77
1035	21.2	6.45	2259	6	0.90	-147.1	3000	29.77
1038	21.1	6.44	2261	5	0.91	-148.2	3600	29.78

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 3600ml
Sampling Time: 1039	Sampling Date: 7/10/12
Sample I.D.: GMW-47	Laboratory: Cal Science
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See C.O.C.
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>120709-EU1</u>	Client: <u>Parsons</u>
Sampler: <u>EV</u>	Gauging Date: <u>7/9/12</u>
Well I.D.: <u>GMW-57</u>	Well Diameter (in.): 2 3 <u>(4)</u> 6 8
Total Well Depth (ft.): <u>54.33</u>	Depth to Water (ft.): <u>30.34</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>VST Pro Plus</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0953 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 (ft.)
<u>0958</u>	<u>23.9</u>	<u>6.78</u>	<u>1583</u>	<u>10</u>	<u>1.06</u>	<u>-109.7</u>	<u>600</u>	<u>30.40</u>
<u>0959</u>	<u>23.5</u>	<u>6.78</u>	<u>1580</u>	<u>7</u>	<u>0.84</u>	<u>-101.5</u>	<u>1200</u>	<u>30.40</u>
<u>1002</u>	<u>23.5</u>	<u>6.79</u>	<u>1582</u>	<u>5</u>	<u>0.82</u>	<u>-94.3</u>	<u>1800</u>	<u>30.42</u>
<u>1005</u>	<u>23.4</u>	<u>6.79</u>	<u>1584</u>	<u>5</u>	<u>0.80</u>	<u>-91.8</u>	<u>2400</u>	<u>30.42</u>
<u>1008</u>	<u>23.4</u>	<u>6.79</u>	<u>1587</u>	<u>4</u>	<u>0.79</u>	<u>-89.3</u>	<u>3000</u>	<u>30.42</u>
<u>1011</u>	<u>23.5</u>	<u>6.79</u>	<u>1586</u>	<u>5</u>	<u>0.77</u>	<u>-88.1</u>	<u>3600</u>	<u>30.42</u>

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>3600 ml</u>
Sampling Time: <u>1012</u>	Sampling Date: <u>7/9/12</u>
Sample I.D.: <u>GMW-57</u>	Laboratory: <u>Cal Science</u>
Analyzed for: TPH-G BTEX MTBE TPH-D Other: <u>See C.O.C</u>	
Equipment Blank I.D.: @ Time Duplicate I.D.:	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709-ENV1	Client: Parsons
Sampler: <u> </u>	Gauging Date: 7/10/12
Well I.D.: GMW-58	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): 53.97	Depth to Water (ft.): 28.34
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI Pro Plus</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0735 Flow Rate: 200 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 (ft.)
0738	23.8	6.78	1573	18	1.52	-139.2	600	28.42
0741	23.9	6.76	1574	16	0.97	-146.5	1200	28.42
0744	23.8	6.77	1571	15	0.93	-149.7	1800	28.42
0747	23.9	6.77	1572	15	0.91	-152.3	2400	28.42
0750	24.0	6.76	1570	16	0.91	-153.7	3000	28.42
0753	24.0	6.76	1570	14	0.93	-154.2	3600	28.42

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>3600ml</u>
Sampling Time: <u>0754</u>	Sampling Date: <u>7/10/12</u>
Sample I.D.: <u>GMW-58</u>	Laboratory: <u>Cal Science</u>
Analyzed for: TPH-G BTEX MTBE TPH-D Other: <u>See C.O.C.</u>	
Equipment Blank I.D.: @ Time Duplicate I.D.:	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709-EV1	Client: Parsons
Sampler: EV	Gauging Date: 7/10/12
Well I.D.: GMW-59	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): 53.92	Depth to Water (ft.): 27.80
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: XSL Pro Plus

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other

Start Purge Time: 1209 Flow Rate: 200 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 (ft.)
1212	23.6	6.84	1507	19	0.76	-137.8	600	27.88
1215	24.0	6.83	1510	17	0.62	-146.1	1200	27.89
1218	24.1	6.83	1509	17	0.58	-149.9	1800	27.89
1221	24.2	6.82	1511	16	0.57	-152.8	2400	27.90
1224	24.1	6.82	1511	15	0.55	-152.1	3000	27.90
1227	24.1	6.82	1513	15	0.55	-154.7	3600	27.90

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 3600 ml
Sampling Time: 1228	Sampling Date: 7/10/12
Sample I.D.: GMW-59	Laboratory: Cal Science
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See C.O.C.
Equipment Blank I.D.: @	Duplicate I.D.: GMW-59 Dup

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709-EVI	Client: Parsons
Sampler: EV	Gauging Date: 7/10/12
Well I.D.: GMW-60	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): 40.08	Depth to Water (ft.): 29.76
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: VSI Pro Plus

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other
 Start Purge Time: 1300 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 (ft.)
1303	24.8	6.92	2621	22	1.39	-192.4	600	29.83
1306	25.0	6.94	2629	18	1.33	-194.3	1200	29.83
1309	25.1	6.95	2631	15	1.29	-198.2	1800	29.83
1312	25.3	6.95	2636	14	1.27	-199.7	2400	29.83
1315	25.2	6.96	2634	13	1.20	-201.3	3000	29.83
1318	25.3	6.96	2638	13	1.26	-200.7	3600	29.83

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 3600 ml
Sampling Time: 1319	Sampling Date: 7/10/12
Sample I.D.: GMW-60	Laboratory: Cal Science
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: SO2 C.O.C.
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709-EV1	Client: Parsons
Sampler: EV	Gauging Date: 7/10/12
Well I.D.: GMMW-61	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): 39.92	Depth to Water (ft.): 29.14
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>eye</u> Grade	Flow Cell Type: <u>VST Pro Plus</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____

Start Purge Time: 0930 Flow Rate: 200 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 (ft.)
0939	23.1	7.03	2339	13	0.80	-156.7	600	29.21
0942	23.0	7.06	2369	9	0.80	-163.1	1200	29.21
0949	22.9	7.07	2387	9	0.73	-167.6	1800	29.21
0948	22.9	7.07	2400	7	0.68	-170.7	2400	29.23
0951	22.8	7.08	2414	6	0.65	-172.8	3000	29.23
0954	22.8	7.07	2430	6	0.64	-174.6	3600	29.23

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>3600ml</u>
Sampling Time: <u>0955</u>	Sampling Date: <u>7/10/12</u>
Sample I.D.: <u>GMMW-61</u>	Laboratory: <u>Cal Science</u>
Analyzed for: TPH-G BTEX MTBE TPH-D Other: <u>See C.O.C.</u>	
Equipment Blank I.D.: @ Time Duplicate I.D.:	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709-EV1	Client: Parsons
Sampler: EV	Gauging Date: 7/10/12
Well I.D.: Gmw-62	Well Diameter (in.): 2 3 ④ 6 8
Total Well Depth (ft.):	Depth to Water (ft.): 30.15
Depth to Free Product: 29.80	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: _____

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 (ft.)
-	Detected 0.35' of SPH w/ interface probe. —							
-	No sample taken —							

Did well dewater? Yes No	Amount actually evacuated:
Sampling Time:	Sampling Date:
Sample I.D.:	Laboratory:
Analyzed for: TPH-G BTEX MTBE TPH-D Other:	
Equipment Blank I.D.:	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709-EV1	Client: Parsons
Sampler: EV	Gauging Date: 7/9/12
Well I.D.: GMW-63	Well Diameter (in.): 2 3 (4) 6 8
Total Well Depth (ft.): 40.06	Depth to Water (ft.): 30.49
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI Pro Plus

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: 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 (ft.)
1043	22.6	7.10	1527	23	1.05	36.6	600	30.57
1046	22.8	7.09	1545	19	0.88	26.5	1200	30.57
1049	22.5	7.06	1563	17	0.71	24.3	1800	30.57
1092	22.4	7.09	1573	15	0.65	21.8	2400	30.57
1099	22.3	7.03	1580	15	0.62	19.6	3000	30.57
1098	22.3	7.03	1584	16	0.63	18.1	3600	30.57

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 3600 ml
Sampling Time: 1059	Sampling Date: 7/9/12
Sample I.D.: GMW-63	Laboratory: Cal Science
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See Col.
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709-EV1	Client: Parsons
Sampler: EV	Gauging Date: 7/9/12
Well I.D.: GMW-64	Well Diameter (in.): 2 8 (4) 6 8
Total Well Depth (ft.): 39.84	Depth to Water (ft.): 29.98
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: PSI ProPlus

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1124 Flow Rate: 200 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 (ft.)
1127	22.3	6.88	1775	18	2.97	39.6	600	29.07
1130	22.1	6.86	1796	16	2.51	34.0	1200	29.07
1133	22.0	6.85	1808	14	2.49	32.6	1800	29.07
1136	21.8	6.85	1812	12	2.46	29.8	2400	29.07
1139	21.7	6.85	1809	11	2.45	28.6	3000	29.07
1142	21.7	6.86	1811	9	2.45	24.4	3600	29.07
1145	21.7	6.86	1814	9	2.43	20.4	4200	29.07
						18.9		

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 4200 ml
Sampling Time: 1146	Sampling Date: 7/9/12
Sample I.D.: GMW-64	Laboratory: Cal Science
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See C.O.C.
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709-ENV1	Client: Parsons
Sampler: EV	Gauging Date: 7/9/12
Well I.D.: Gmw 65	Well Diameter (in.): 2 3 (4) 6 8
Total Well Depth (ft.): 40.90	Depth to Water (ft.): 30.26
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro Plus

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other
 Start Purge Time: 1222 Flow Rate: 200 ml/min Pump Depth: 34'

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 (ft.)
1225	21.4	6.91	2722	103	0.68	-54.3	600	30.34
1228	21.6	6.94	2758	94	0.53	-62.8	1200	30.36
1231	21.8	6.95	2775	88	0.48	-71.4	1800	30.36
1234	21.6	6.95	2782	72	0.47	-73.8	2400	30.36
1237	21.6	6.96	2787	43	0.50	-76.2	3000	30.36
1240	21.7	6.96	2784	39	0.49	-78.4	3600	30.36
1243	21.7	6.96	2790	38	0.49	-78.9	4200	30.36

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 4200 mL
Sampling Time: 1244	Sampling Date: 7/9/12
Sample I.D.: Gmw-65	Laboratory: Cal Science
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See C.O.C.
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709-EV1	Client: Parsons
Sampler: EV	Gauging Date: 7/10/12
Well I.D.: MW-2 GW-2	Well Diameter (in.): 2 3 (4) 6 8
Total Well Depth (ft.): 58.38	Depth to Water (ft.): 29.51
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI Pro Plus

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other
 Start Purge Time: 0852 Flow Rate: 200ml/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 (ft.)
0855	22.2	6.93	2675	23	0.93	-121.2	600	29.54
0858	22.1	6.92	2623	19	0.78	-123.5	1200	29.54
0901	22.1	6.93	2597	14	0.68	-121.7	1800	29.54
0904	22.1	6.93	2568	14	0.60	-120.2	2400	29.56
0907	22.0	6.94	2550	14	0.57	-121.6	3000	29.56
0910	22.0	6.94	2532	14	0.55	-122.3	3600	29.56

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 3600ml
Sampling Time: 0911	Sampling Date: 7/10/12
Sample I.D.: GW-2	Laboratory: Cal Science
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709-EVI	Client: Parsons
Sampler: EV	Gauging Date: 7/9/12
Well I.D.: GW-13	Well Diameter (in.): 2 3 (4) 6 8
Total Well Depth (ft.): 65.78	Depth to Water (ft.): 30.80
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI Pro Plus

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1502 Flow Rate: 200 ml/min Pump Depth: 50.0'

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 (ft.)
1505	24.1	6.98	2376	36	0.71	-87.3	600	30.89
1508	24.3	6.98	2457	28	0.43	-91.2	1200	30.91
1511	24.3	6.98	2468	24	0.33	-91.8	1800	30.91
1514	24.2	6.97	2479	22	0.28	-92.1	2400	30.91
1517	24.2	6.97	2460	21	0.24	-91.3	3000	30.92
1520	24.3	6.97	2457	22	0.23	-92.7	3600	30.92

Did well dewater? Yes <input checked="" type="radio"/> No <input type="radio"/>	Amount actually evacuated: 3600 ml
Sampling Time: 1521	Sampling Date: 7/9/12
Sample I.D.: GW-13	Laboratory: C&D Science
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See C.O.C.
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709-5V1	Client: Parsons
Sampler: EV	Gauging Date: 7/10/12
Well I.D.: GW-14	Well Diameter (in.): 2 3 4 <u>6</u> 8
Total Well Depth (ft.): 65.90	Depth to Water (ft.): 30.27
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: YSI Pro Plus

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other
 Start Purge Time: 1730 Flow Rate: 200ml/min Pump Depth: 50'

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 mL)	Depth to Water (ft.)
1433	24.6	6.54	1394	17	0.88	-119.6	600	30.34
1436	24.9	6.54	1391	12	0.75	-121.4	1200	30.34
1439	25.1	6.54	1370	9	0.70	-122.7	1800	30.36
1442	25.1	6.54	1390	7	0.67	-123.9	2400	30.36
1445	25.2	6.55	1389	7	0.64	-123.6	3000	30.36
1448	25.2	6.55	1391	6	0.63	-124.3	3600	30.36

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 3600 ml
Sampling Time: 1449	Sampling Date: 7/10/12
Sample I.D.: GW-14	Laboratory: Cal Sewery
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See C.O.C.
Equipment Blank I.D.: @ Time	Duplicate I.D.: GW-14 dup

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709-EV1	Client: Parsons
Sampler: EV	Gauging Date: 7/10/12
Well I.D.: MW-11	Well Diameter (in.): 2 3 ④ 6 8
Total Well Depth (ft.): 51.10	Depth to Water (ft.): 31.84
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: VSI Pro Plus

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other
 Start Purge Time: 0800 Flow Rate: 200 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 (ft.)
0811	21.3	6.75	1412	6	0.80	-152.6	600	31.93
0814	21.0	6.74	1411	5	0.76	-158.7	1200	31.93
0817	21.0	6.74	1412	5	0.72	-161.3	1800	31.93
0820	21.2	6.73	1409	6	0.70	-165.8	2400	31.93
0823	21.1	6.73	1403	5	0.71	-167.4	3000	31.93
0826	21.1	6.73	1404	4	0.70	-170.1	3600	31.93

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 3600 ml
Sampling Time: 0827	Sampling Date: 7/10/12
Sample I.D.: MW-11	Laboratory: Cal Science
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See C.O.C
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>120709-EVI</u>	Client: <u>Parsons</u>
Sampler: <u>EV</u>	Gauging Date: <u>7/9/12</u>
Well I.D.: <u>MW-14</u>	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): <u>51.85</u>	Depth to Water (ft.): <u>32.37</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI Pro Plus</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1426 Flow Rate: 200 ml/min Pump Depth: 39.5

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 (ft.)
<u>1429</u>	<u>24.0</u>	<u>6.83</u>	<u>2204</u>	<u>10</u>	<u>1.13</u>	<u>-116.8</u>	<u>600</u>	<u>32.43</u>
<u>1432</u>	<u>24.3</u>	<u>6.85</u>	<u>2233</u>	<u>9</u>	<u>0.88</u>	<u>-118.4</u>	<u>1200</u>	<u>32.43</u>
<u>1435</u>	<u>24.5</u>	<u>6.86</u>	<u>2249</u>	<u>6</u>	<u>0.75</u>	<u>-120.4</u>	<u>1800</u>	<u>32.43</u>
<u>1438</u>	<u>24.5</u>	<u>6.86</u>	<u>2260</u>	<u>6</u>	<u>0.71</u>	<u>-123.0</u>	<u>2400</u>	<u>32.43</u>
<u>1441</u>	<u>24.6</u>	<u>6.87</u>	<u>2266</u>	<u>5</u>	<u>0.68</u>	<u>-125.7</u>	<u>3000</u>	<u>32.43</u>
<u>1444</u>	<u>24.6</u>	<u>6.87</u>	<u>2275</u>	<u>4</u>	<u>0.67</u>	<u>-126.4</u>	<u>3600</u>	<u>32.43</u>

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>3600 ml</u>
Sampling Time: <u>1445</u>	Sampling Date: <u>7/9/12</u>
Sample I.D.: <u>MW-14</u>	Laboratory: <u>Cal Science</u>
Analyzed for: TPH-G BTEX MTBE TPH-D Other: <u>See C.O.C.</u>	
Equipment Blank I.D.: @ Time Duplicate I.D.:	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709-EV1	Client: Parsons
Sampler: EU	Gauging Date: 7/9/12
Well I.D.: MW-22(MID)	Well Diameter (in.): 2 3 (4) 6 8
Total Well Depth (ft.): 57.60	Depth to Water (ft.): 34.56
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI Pro Plus

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other
 Start Purge Time: 1344 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 (ft.)
1347	22.8	7.28	1692	12	1.32	-89.9	600	34.63
1350	22.9	7.27	1686	9	0.84	-90.6	1200	34.63
1353	23.2	7.27	1683	8	0.71	-93.1	1800	34.63
1356	23.2	7.26	1679	8	0.67	-94.6	2400	34.63
1359	23.3	7.27	1682	7	0.64	-96.2	3000	34.63
1402	23.3	7.27	1677	8	0.63	-97.1	3600	34.63

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 3600 ml
Sampling Time: 1403	Sampling Date: 7/9/12
Sample I.D.: MW-22(MID)	Laboratory: CalSciency
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See C.O.C.
Equipment Blank I.D.: @	Duplicate I.D.:

BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

CHAIN OF

CLIENT **Parsons**

SITE **Norwalk GWM**

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS	
			W = H2O	TOTAL	
EXP-1	7/9/12	0809	W	7	vsg/amber
EXP-2		0847			
EXP-3		0922			
Gmw-57		1012			
Gmw-63		1059			
Gmw-64		1146			
Gmw-65		1244			
MW-2(m)		1403			
MW-14		1445			
GW-13		1521			

CONDUCT ANALYSIS TO DETECT					
VOC's (including BTEX, MTBE, TBA, EPA 8260)	TPH as JP5 (8015)	TPHg (8015)	Dissolved Methane (RSK-175M)	Sulfate (300.0)	Alkalinity (SM 2320B)
X	X	X			
X	X	X			
X	X	X			
X	X	X			
X	X	X			
X	X	X			
X	X	X			
X	X	X			
X	X	X			

LAB: Calscience PM: Ranjit Clark

ALL ANALYSES MUST MEET

EPA RWQCB REGION

LIA

OTHER

SPECIAL INSTRUCTIONS

Invoice and Report to:

Parsons - Mary Lucas (mary.lucas@parsons.com)

100 W Walnut St., Pasadena, CA 91124 (626) 440-6032
 Project # 746442

ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #

SAMPLING COMPLETED DATE **7/9/12** TIME **1530** SAMPLING PERFORMED BY **Emmanuel** RESULTS NEEDED NO LATER THAN **Standard**

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
<i>[Signature]</i>	7/9/12	1620	<i>[Signature]</i>	7/9/12	1620
Nicole (sc)	7/10/12	0950	<i>[Signature]</i>	07/10/12	0950

SHIPPED VIA _____ DATE SENT _____ 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: Calscience PM: Ranjit Clark

DHS #

ALL ANALYSES
 MUST MEET

- EPA
- LIA
- OTHER

RWQCB REGION

SPECIAL INSTRUCTIONS

Invoice and Report to:

Parsons - Mary Lucas (mary.lucas@parsons.com)

100 W Walnut St., Pasadena, CA 91124 (626) 440-6032
 Project # 746442

CHAIN OF

CLIENT **Parsons**

SITE **Norwalk GWM**

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS		VOC's (including BTEX, MTBE, TBA, EPA 8260)	TPH as JP5 (8015)	TPHg (8015)	Dissolved Methane (RSK-175M)	Sulfate (300.0)	Alkalinity (SM 2320B)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
			W = H2O	TOTAL											
TB-02	7/10/12	0725	W	3	VOG's	X	X								
GMW-58		0754		4	VOG/amber	X	X								
MW-11		0827		4		X	X								
MW-2 GMW-2		0911		4		X	X								
GMW-61		0955		4		X	X								
GMW-47		1039		4		X	X								
GMW-59		1228		4		X	X								
GMW-59 dup				4		X	X								
GMW-60		1319		4 3		X	X								
GMW-18		1409		4		X	X								

SAMPLING COMPLETED DATE **7/10/12** TIME **1500** SAMPLING PERFORMED BY **Emmanuel Uac** RESULTS NEEDED NO LATER THAN **Standard**

RELEASED BY **[Signature]** DATE **7/10/12** TIME **1625** RECEIVED BY **[Signature]** DATE **7/10/12** TIME **1625**

RELEASED BY **Nicole (SC)** DATE **7/11/12** TIME **1756** RECEIVED BY **Rudy W** DATE **7/11/12** TIME **1056**

RELEASED BY _____ DATE _____ TIME _____ RECEIVED BY _____ DATE _____ TIME _____

SHIPPED VIA _____ DATE SENT _____ 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: Calscience PM: Ranjit Clark

DHS #

ALL ANALYSES

MUST MEET

- EPA
- LIA
- OTHER

RWQCB REGION

SPECIAL INSTRUCTIONS

Invoice and Report to:

Parsons - Mary Lucas (mary.lucas@parsons.com)

100 W Walnut St., Pasadena, CA 91124 (626) 440-6032
 Project # 746442

CHAIN OF

CLIENT **Parsons**

SITE **Norwalk GWM**

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS		VOC's (including BTEX, MTBE, TBA, EPA 9260)	TPH as JP5 (8015)	TPHg (8015)	Dissolved Methane (RSK-175M)	Sulfate (300.0)	Alkalinity (SM 2320B)
			W = H2O	TOTAL							
GW-14	7/10/12	1449	W	4	✓ VOC Amber	X	X				
GW-14dup	↓		W	4	↓	X	X				

ADD'L INFORMATION STATUS CONDITION LAB SAMPLE #

SAMPLING COMPLETED DATE **7/10/12** TIME **1500** SAMPLING PERFORMED BY **Emmanuel Nair** RESULTS NEEDED NO LATER THAN **Standard**

RELEASED BY **[Signature]** DATE **7/10/12** TIME **1625** RECEIVED BY **[Signature] (sc)** DATE **7/10/12** TIME **1625**

RELEASED BY **Nicole (sc)** DATE **7/11/12** TIME **1056** RECEIVED BY **Rudny M...** DATE **7/11/12** TIME **1056**

RELEASED BY _____ DATE _____ TIME _____ RECEIVED BY _____ DATE _____ TIME _____

SHIPPED VIA _____ DATE SENT _____ TIME SENT _____ COOLER # _____

WELLHEAD INSPECTION CHECKLIST

Client Parsons Date 7/9/12

Site Address DFSP Norwalk

Job Number 120709-EV1 Technician BV

Well ID	Well Inspected - No Corrective Action Required	WELL IS SECURABLE BY DESIGN (12" or less)	WELL IS CLEARLY MARKED WITH THE WORDS "MONITORING WELL" (12" or less)	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
EXP-1	X									
EXP-2	X									
EXP-3	X									
GMW-57	X	X	X							
GMW-63	X	X	X							
GMW-64	X	X	X							
GMW-65	X	X	X							
MW-22(MID)	X									
MW-14	X									
GW-13										X
GMW-58										X
MW-11	X									
MW-2	X									X
GMW-61	X	X	X							
GMW-47		X	X							X
GMW-35		X	X							X
GMW-59										X

NOTES: EXP-2, EXP-3, MW-14 standpipe, MW-22 (MID) standpipe
 GW-13 3/3 bolts missing 18" vault, GMW-58 4/4 bolts missing 24" vault, MW-11 standpipe, MW-2 4/4 missing 24" vault
 GMW-47 2/2 bolts missing, GMW-35 2/2 bolts missing, GMW-59 4/4 bolts missing 24" vault

NORWALK WELL GAUGING DATA

TECHNICIAN: DR DATE: 7/9/12 CLIENT: Kinder Morgan

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Historical SPH	Depth to water (ft.) 4Q11	Depth to water (ft.) 1Q12	Depth to water (ft.) 2Q12	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Time
EXP-1	4					53.75	52.67	52.29	52.69	128.62	TOC	7:35
EXP-2	4					53.21	52.98	52.63	53.08	128.54	TOC	8:20
EXP-3	4					52.74	51.67	51.34	51.87	123.60	TOC	8:59
EXP-5	4					49.58	46.53	46.21	46.88	113.23	TOC	12:41
GMW-1	4					26.15	26.68	28.03	29.14	49.33	TOC	10:34
GMW-27	4					26.17	26.84	27.85	27.94	49.09	TOC	11:42
GMW-30	6					26.55	27.12	29.09	28.43	49.73	TOC	12:04
GMW-36	4	Odor				Extraction Pump	27.26	27.34	33.71	Pump in well	TOC	9:29
GMW-37	4					29.00	29.72	30.10	30.86	53.39	TOC	10:26
GMW-38	4					27.28	27.90	28.32	28.97	53.07	TOC	13:18
GMW-39	4					26.85	28.44	28.04	28.62	50.50	TOC	13:59
GMW-9	5					28.91	29.31	31.15	31.64	49.97	TOC	12:16
GMW-O-1	4					22.89	23.35	23.86	24.19	49.09	TOC	8:53
GMW-O-10	4					26.29	26.82	26.90	27.81	49.97	TOC	13:26
GMW-O-12	4	Odor	26.94	0.02		24.68	25.12	25.40	26.96	-	TOC	13:47
GMW-O-14	4	Odor				25.16	26.14	26.94	27.51	49.63	TOC	10:59
GMW-O-15	4	Odor				Extraction Pump	27.67	26.56	25.47	47.29	TOC	8:01
GMW-O-16	4					25.53	26.98	26.62	27.12	48.65	TOC	11:59
GMW-O-17	4					24.71	25.32	26.10	26.42	39.72	TOC	14:20
GMW-O-18	4	Odor				Extraction Pump	Extraction Pump	27.10	29.51	Ext. Pump	TOC	8:51
GMW-O-19	4					25.40	26.56	26.88	27.27	39.97	TOC	12:30
GMW-O-2	4					23.98	24.50	24.82	25.21	49.19	TOC	9:24
GMW-O-20	4	Odor	32.90	0.02		24.05	24.68	26.18	32.92	-	TOC	13:53
GMW-O-23	4					25.25	25.91	27.38	27.41	29.14	TOC	14:00
GMW-O-3	4					23.70	24.29	24.72	25.29	48.34	TOC	10:01
GMW-O-9	4					25.16	26.02	26.13	26.91	49.96	TOC	13:18
GMW-SF-8	4					28.28	28.92	29.34	30.09	43.58	TOC	10:09

NORWALK WELL GAUGING DATA

TECHNICIAN: DR DATE: 7/9/12 CLIENT: Kinder Morgan

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Historical SPH	Depth to water (ft.) 4Q11	Depth to water (ft.) 1Q12	Depth to water (ft.) 2Q12	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Time
HL-2	4					28.54	29.10	29.50	30.22	39.13	TOC	11:50
MW-8	4					27.65	28.31	28.77	29.63	51.91	TOC	10:20
MW-O-2	6					27.53	28.13	pump	26.53	Pump in well	TOC	11:08
MW-SF-1	6					29.60	31.25	32.59	31.24	51.27	TOC	10:58
MW-SF-2	4					29.82	30.52	31.28	33.18	44.00	TOC	11:46
MW-SF-4	4					-	32.07	33.35	32.11	44.38	TOC	10:42
MW-SF-5	6					31.28	32.12	33.30	34.45	50.99	TOC	11:36
MW-SF-6	6					28.21	29.03	29.66	31.46	41.40	TOC	11:50
MW-SF-9	4					25.02	-	25.92	26.44	38.30	TOC	10:50
PZ-2	4					25.67	27.21	unable to access	28.16	49.44	TOC	12:30
PZ-5	4	Odor				25.55	26.47	26.59	27.26	38.44	TOC	14:39
WCW-13	4					30.30	30.24	30.81	31.05	60.38	TOC	14:16
WCW-3	4					28.64	29.00	29.35	29.64	50.42	TOC	14:53
WCW-7	4					28.93	29.35	29.17	28.34	49.29	TOC	7:43

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709-EV1	Client: Parsons
Sampler: EV	Gauging Date: 7/9/12
Well I.D.: EXP-1	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): 128.62	Depth to Water (ft.): 52.69
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVE</u> Grade	Flow Cell Type: YSI Pro Plus

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0750 Flow Rate: 200ml/min Pump Depth: 97'

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 (ft.)
0753	23.0	7.26	953	6	2.39	-207.6	600	52.74
0756	23.1	7.28	977	5	1.87	-193.6	1200	52.74
0759	23.3	7.28	988	5	1.78	-190.4	1800	52.74
0802	23.4	7.29	994	4	1.71	-186.5	2400	52.74
0805	23.5	7.29	998	4	1.69	-185.3	3000	52.74
0808	23.5	7.30	999	4	1.68	-183.2	3600	52.74

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: <u>3600 ml</u>
Sampling Time: <u>0809</u>	Sampling Date: <u>7/9/12</u>
Sample I.D.: <u>EXP-1</u>	Laboratory: <u>Cal Science</u>
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: <u>See C.O.C</u>
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709-EV1	Client: Parsons
Sampler: EV	Gauging Date: 7/9/12
Well I.D.: EXP-2	Well Diameter (in.): 2 3 ④ 6 8
Total Well Depth (ft.): 128.54	Depth to Water (ft.): 53.08
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="radio"/> VCO Grade	Flow Cell Type: YSI Pro Plus

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0828 Flow Rate: 200ml/min Pump Depth: 105'

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 (ft.)
0831	23.2	7.29	1333	5	1.96	+143.7	600	53.19
0834	23.0	7.29	1367	4	1.38	+131.2	1200	53.19
0837	23.0	7.28	1383	4	0.99	+125.6	1800	53.19
0840	23.1	7.28	1402	4	0.83	+121.3	2400	53.19
0843	22.9	7.28	1417	3	0.79	+119.6	3000	53.20
0844	22.9	7.29	1426	3	0.77	+117.8	3600	53.20

Did well dewater? Yes <input checked="" type="radio"/> No	Amount actually evacuated: 3600 ml
Sampling Time: 0847	Sampling Date: 7/9/12
Sample I.D.: EXP-2	Laboratory: Cal Sewer
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: <input checked="" type="radio"/> See COC
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709-EV1	Client: Parsons
Sampler: EV	Gauging Date: 7/9/12
Well I.D.: EXP-3	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): 123.60	Depth to Water (ft.): 51.87
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI Pro Plus

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other

Start Purge Time: 0904 Flow Rate: 200 ml/min Pump Depth: 100'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or m ³)	Depth to Water (ft.)
0907	23.9	7.36	1044	7	1.14	+143.6	600	51.96
0910	24.0	7.35	1062	5	0.93	-137.4	1200	51.96
0913	24.0	7.35	1087	5	0.85	-133.2	1800	51.96
0915	23.9	7.34	1099	4	0.81	-129.6	2400	51.96
0918	24.0	7.34	1108	4	0.78	-129.1	3000	51.96
0921	24.0	7.34	1114	3	0.76	-127.4	3600	51.96

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 3600m ³
Sampling Time: 0922	Sampling Date: 7/9/12
Sample I.D.: EXP-3	Laboratory: Cal Science
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See C-06
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709-DA1	Client: KMEP
Sampler: DA	Start Date: 7/9/12
Well I.D.: EXP-5	Well Diameter: 2 3 ④ 6 8
Total Well Depth: 113.23	Depth to Water: Pre: 46.88 Post: 46.94
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: 1324 Flow Rate: 500 ml/min. Pump Depth: 100'

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u>)	Depth to water
1327	24.76	7.43	916	8	2.81	-144.8	1500	46.92
1330	22.39	7.45	911	6	1.21	-165.7	3000	46.93
1333	22.87	7.44	919	7	0.96	-173.4	4500	46.93
1336	22.91	7.43	920	6	0.84	-171.7	6000	46.93
1339	22.92	7.43	921	5	0.81	-170.2	7500	46.94
1342	22.93	7.43	920	5	0.80	-169.8	9000	46.94

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 9000 ml
Sampling Time: 1347	Sampling Date: 7/9/12
Sample I.D.: EXP-5	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other: Sec 500
Equipment Blank I.D.: EB-1 @ Time 1357	Duplicate I.D.: TB-1 @ 1230

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709-DA1	Client: KMEP
Sampler: DA	Start Date: 7/9/12
Well I.D.: Wcw-13	Well Diameter: 2 3 ④ 6 8
Total Well Depth: 60.38	Depth to Water: Pre: 31.05 Post: 31.14
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: 1419 Flow Rate: 500 ml/min Pump Depth: 55'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to water
1422	24.19	7.46	1960	29	1.29	-61.5	1500	31.11
1425	24.22	7.39	1979	25	1.07	-74.3	3000	31.12
1428	24.27	7.34	1993	22	0.94	-71.6	4500	31.13
1431	24.22	7.34	1998	20	0.92	-67.2	6000	31.14
1434	24.23	7.33	1999	19	0.90	-66.8	7500	31.14
1437	24.23	7.33	2001	20	0.88	-66.1	9000	31.14

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: 9000 ml
Sampling Time: 1442	Sampling Date: 7/9/12
Sample I.D.: Wcw-13	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other: See Spw
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709-DR1	Client: KMEP
Sampler: DR	Start Date: 7/9/12
Well I.D.: WCW-3	Well Diameter: 2 3 ④ 6 8 _____
Total Well Depth: 50.42	Depth to Water: Pre: 29.64 Post: 29.75
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: 1500 Flow Rate: 500 ml/min Pump Depth: 48'

Time	Temp. (°C or °F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to water
1503	24.66	6.89	2526	9	1.28	-28.8	1500	29.72
1506	23.64	7.15	2599	7	1.12	-43.6	3000	29.73
1509	23.59	7.12	2638	6	0.84	-55.1	4500	29.74
1512	23.61	7.12	2639	5	0.73	-53.8	6000	29.74
1515	23.66	7.12	2633	5	0.70	-53.5	7500	29.74
1518	23.67	7.12	2632	5	0.69	-53.1	9000	29.75

Did well dewater? Yes <input checked="" type="radio"/> No <input type="radio"/>	Amount actually evacuated: 9000 ml
Sampling Time: 1523	Sampling Date: 7/9/12
Sample I.D.: WCW-3	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other: See SOW
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709-DR1	Client: KMEP
Sampler: DR	Start Date: 7/10/12
Well I.D.: W(CW-7)	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 49.29	Depth to Water: Pre: 28.39 Post: 28.43
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: 0801 Flow Rate: 500 ml/min. Pump Depth: 31'

Time	Temp. (°C or °F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0810	24.25	7.16	3588	8	3.24	-33.9	1500	28.39
0813	22.65	7.00	3700	7	0.97	-51.8	3000	28.41
0816	22.95	6.98	3729	6	0.84	-54.5	4500	28.42
0819	22.97	6.98	3780	5	0.81	-53.3	6000	28.42
0822	22.98	6.98	3783	4	0.80	-53.7	7500	28.42
0825	22.99	6.97	3786	4	0.78	-53.8	9000	28.43

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 9000 ml
Sampling Time: 0830	Sampling Date: 7/10/12
Sample I.D.: W(CW-7)	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other: See SOW
Equipment Blank I.D.: EB2 @ Time 0840	Duplicate I.D.: DUP-1E-0822

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709-DRI	Client: KMEP
Sampler: DR	Start Date: 7/10/12
Well I.D.: GMW-0-1	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 49.09	Depth to Water: Pre: 24.19 Post: 24.26
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: 0854 Flow Rate: 500 ml/min Pump Depth: 44'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0857	22.19	6.70	2574	11	2.92	-13.5	1500	24.23
0900	22.16	7.00	2583	8	2.39	-23.2	3000	24.24
0903	22.44	6.99	2593	7	1.18	-28.4	4500	24.25
0906	22.50	6.98	2602	6	1.09	-30.6	6000	24.25
0909	22.52	6.98	2611	5	1.06	-31.2	7500	24.26
0912	22.53	6.98	2614	5	1.05	-31.4	9000	24.26

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 9000 ml
Sampling Time: 0917	Sampling Date: 7/10/12
Sample I.D.: GMW-0-1	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other: See SOW
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709-DR1	Client: KMEP
Sampler: DR	Start Date: 7/10/12
Well I.D.: GMW-0-2	Well Diameter: 2 3 ④ 6 8
Total Well Depth: 49.19	Depth to Water: Pre: 25.21 Post: 25.35
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: 0928 Flow Rate: 500 ml/min Pump Depth: 44'

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u>)	Depth to water
0931	23.34	7.07	2222	7	3.19	-17.1	1500	25.29
0934	23.41	7.03	2255	6	1.72	-30.6	3000	25.31
0937	23.50	7.03	2290	5	0.92	-38.4	4500	25.33
0940	23.52	7.02	2322	5	0.83	-44.4	6000	25.34
0943	23.53	7.02	2324	4	0.81	-46.2	7500	25.35
0946	23.54	7.01	2325	4	0.80	-47.0	9000	25.35

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>9000 ml</u>
Sampling Time: <u>0951</u>	Sampling Date: <u>7/10/12</u>
Sample I.D.: <u>GMW-0-2</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>TPHg TPHfp VOC's MTBE</u>	Other: <u>See SOW</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709-DRI	Client: KMEP
Sampler: DR	Start Date: 7/10/12
Well I.D.: GMW-03	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 48.34	Depth to Water: Pre: 25.29 Post: 25.34
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: 1004 Flow Rate: 500 ml/min Pump Depth: 45'

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u>)	Depth to water
1007	23.79	7.04	2537	139	1.74	-34.2	1500	25.32
1010	24.22	7.00	2602	74	1.25	-49.1	3000	25.33
1013	24.29	7.00	2612	33	0.91	-54.6	4500	25.34
1016	24.32	6.99	2660	31	0.70	-63.1	6000	25.34
1019	24.33	6.99	2663	30	0.69	-64.2	7500	25.34
1022	24.34	6.98	2664	31	0.68	-64.5	9000	25.34

Did well dewater? Yes No Amount actually evacuated: 9000 ml

Sampling Time: 1027 Sampling Date: 7/10/12

Sample I.D.: GMW-0-3 Laboratory: Alpha Analytical

Analyzed for: TPHg TPHfp VOC's MTBE Other: See SOW

Equipment Blank I.D.: @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709-DRI	Client: KMEP
Sampler: DR	Start Date: 7/10/12
Well I.D.: GMW-0-14	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 49.63	Depth to Water: Pre: 27.51 Post: 27.58
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: 1106 Flow Rate: 500 ml/min Pump Depth: 45'

Time	Temp. (°C or °F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to water
1109	24.72	6.89	2152	20	3.12	-227.3	1500	27.54
1112	24.12	7.16	2124	18	1.03	-269.3	3000	27.56
1115	23.99	7.16	2118	15	0.73	-241.4	4500	27.57
1118	23.92	7.16	2136	14	0.49	-272.4	6000	27.57
1121	23.93	7.16	2138	14	0.45	-277.6	7500	27.57
1124	23.94	7.16	2139	13	0.44	-278.9	9000	27.58

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 9000 ml
Sampling Time: 1129	Sampling Date: 7/10/12
Sample I.D.: GMW-0-14	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other: See SOW
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.: DUP-2

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709-DRI	Client: KMEP
Sampler: DR	Start Date: 7/10/12
Well I.D.: GMW-0-16	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 48.64 48.65	Depth to Water: Pre: 27.12 Post: 27.19
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: 1207 Flow Rate: 500 ml/min Pump Depth: 43'

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u>)	Depth to water
1210	24.19	7.26	1859	8	1.24	-90.7	1500	27.16
1213	24.27	7.21	1860	7	1.01	-93.4	3000	27.18
1214	24.49	7.18	1860	6	0.92	-83.7	4500	27.18
1219	24.52	7.18	1887	5	0.90	-80.3	6000	27.19
1222	24.53	7.17	1889	5	0.88	-79.7	7500	27.19
1225	24.54	7.17	1891	5	0.87	-79.5	9000	27.19

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 9000 ml
Sampling Time: 1230	Sampling Date: 7/10/12
Sample I.D.: GMW-0-16	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other: See SOW
Equipment Blank I.D.: @ _____ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709-DRI	Client: KMEP
Sampler: DR	Start Date: 7/10/12
Well I.D.: GMW-0-19	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 39.97	Depth to Water: Pre: 27.27 Post: 27.35
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: 1235 Flow Rate: 500 ml/min Pump Depth: 35'

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u>)	Depth to water
1238	23.81	7.25	1491	7	1.22	-80.2	1500	27.32
1241	23.23	7.21	1482	6	0.84	-89.9	3000	27.33
1244	23.40	7.16	1495	6	0.69	-94.0	4500	27.34
1247	23.51	7.19	1497	5	0.60	-104.9	6000	27.34
1250	23.54	7.19	1498	5	0.59	-105.6	7500	27.34
1253	23.55	7.20	1499	5	0.59	-106.4	9000	27.35

Did well dewater? Yes No Amount actually evacuated: 9000 ml

Sampling Time: 1258 Sampling Date: 7/10/12

Sample I.D.: GMW-0-19 Laboratory: Alpha Analytical

Analyzed for: TPHg TPHfp VOC's MTBE Other: See SOW

Equipment Blank I.D.: @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709-DRI	Client: KMEP
Sampler: DA	Start Date: 7/10/12
Well I.D.: GMW-38	Well Diameter: 2 3 ④ 6 8
Total Well Depth: 53.07	Depth to Water: Pre: 28.97 Post: 29.02
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: 1324 Flow Rate: 500 ml/min Pump Depth: 48'

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to water
1327	25.09	7.58	487	12	1.74	-78.7	1500	29.01
1330	24.63	7.34	459	10	1.08	-84.1	3000	29.02
1333	24.49	7.29	456	8	0.82	-82.0	4500	29.02
1336	24.45	7.30	452	7	0.80	-82.5	6000	29.02
1339	24.46	7.31	450	6	0.72	-83.1	7500	29.02
1342	24.47	7.31	449	6	0.71	-83.7	9000	29.02

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 9000 ml
Sampling Time: 1347	Sampling Date: 7/10/12
Sample I.D.: GMW-38	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other: See SOW
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709-DRI	Client: KMEP
Sampler: DR	Start Date: 7/10/12
Well I.D.: GMW-39	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth: 50.50	Depth to Water: Pre: 28.62 Post: 28.76
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: 1403 Flow Rate: 500 ml/min Pump Depth: 45'

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u>)	Depth to water
1406	25.14	7.46	942	10	1.12	-53.3	1500	28.70
1409	24.72	7.42	905	8	0.84	-65.8	3000	28.72
1412	24.73	7.37	903	7	0.77	-69.2	4500	28.74
1415	24.80	7.37	912	6	0.74	-72.1	6000	28.75
1418	24.81	7.36	913	5	0.72	-74.5	7500	28.76
1421	24.81	7.36	913	5	0.71	-75.6	9000	28.76

Did well dewater? Yes No Amount actually evacuated: 9000 ml

Sampling Time: 1426 Sampling Date: 7/10/12

Sample I.D.: GMW-39 Laboratory: Alpha Analytical

Analyzed for: TPHg TPHfp VOC's MTBE Other: See SOW

Equipment Blank I.D.: @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709-Dr1	Client: KMEP
Sampler: Dn	Start Date: 7/11/12
Well I.D.: GMW-0-18	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: Ext. Pump	Depth to Water: Pre: 29.51 Post: —
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: Ext. Pump
 Start Purge Time: 0854 Flow Rate: 500 ml/min Pump Depth: —

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0857	21.83	7.33	2189	5	1.74	-96.1	1500	—
0900	20.35	7.25	2181	4	1.59	-100.1	3000	—
0903	20.28	7.18	2183	4	1.19	-103.7	4500	—
0906	20.27	7.17	2184	4	1.17	-104.7	6000	—
0909	20.28	7.17	2184	3	1.16	-105.3	7500	—

Did well dewater? Yes No Amount actually evacuated: 2500 mL

Sampling Time: 0914 Sampling Date: 7/11/12

Sample I.D.: GMW-0-18 Laboratory: Alpha Analytical

Analyzed for: TPHg TPHfp VOC's MTBE Other: Sec Sow

Equipment Blank I.D.: EB-30n @ Time Trip blank Duplicate I.D.: TB-3 @ 0700

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709-DRI	Client: KMEP
Sampler: DR	Start Date: 7/10/12
Well I.D.: P2-S	Well Diameter: 2 3 ④ 6 8
Total Well Depth: 38.44	Depth to Water: Pre: 27.26 Post: 27.35
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: 1440 Flow Rate: 500 ml/min Pump Depth: 34'

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u>)	Depth to water
1443	24.13	7.01	2185	12	2.29	-187.1	1500	27.29
1446	23.02	6.96	2152	9	1.36	-207.8	3000	27.32
1449	22.97	6.96	2148	8	1.02	-197.5	4500	27.33
1452	23.22	6.97	2214	7	0.69	-196.5	6000	27.34
1455	23.23	6.97	2216	7	0.67	-196.2	7500	27.34
1458	23.24	6.98	2218	7	0.65	-195.9	9000	27.35

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: <u>9000 ml</u>
Sampling Time: <u>1503</u>	Sampling Date: <u>7/10/12</u>
Sample I.D.: <u>P2-S</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>TPHg TPHfp VOC's MTBE</u>	Other: <u>See SOW</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709 DR1	Client: KMEP
Sampler: DN	Start Date: 7/11/12
Well I.D.: GMW-0-15	Well Diameter: 2 3 ④ 6 8
Total Well Depth: 47.29	Depth to Water: Pre: 25.47 Post: 25.58
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~~ DN New Tubing Other _____
 Start Purge Time: 0807 Flow Rate: 500 ml/min Pump Depth: 42'

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u>)	Depth to water
0810	23.29	7.02	2161	31	2.24	-138.3	1500	25.52
0813	22.43	7.00	2154	27	0.91	-159.6	3000	25.54
0816	22.49	6.99	2181	25	0.84	-170.0	4500	25.55
0819	22.51	6.99	2207	24	0.75	-179.9	6000	25.56
0822	22.53	6.99	2211	22	0.73	-181.2	7500	25.57
0825	22.54	6.99	2213	21	0.72	-183.4	9000	25.58

Did well dewater? Yes <input checked="" type="radio"/> No <input type="radio"/>	Amount actually evacuated: 9000 ml
Sampling Time: 0830	Sampling Date: 7/11/12
Sample I.D.: GMW-0-15	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other: <u>See SeW</u>
Equipment Blank I.D.: EB-3 @	Time: 0842 Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120709-Dr1	Client: KMEP
Sampler: Dr	Start Date: 7/11/12
Well I.D.: GMW-36	Well Diameter: 2 3 (4) 6 8
Total Well Depth: Ext. Pump	Depth to Water: Pre: 33.71 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: Ext. Port
 Start Purge Time: 0931 Flow Rate: 500 ml/min Pump Depth: —

Time	Temp. (°C or °F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0939	23.86	7.23	2025	19	1.23	-61.2	1500	—
0942	23.47	7.14	2009	11	0.94	-69.5	3000	—
0945	23.48	7.13	1995	8	0.83	-68.6	4500	—
0948	23.49	7.13	1994	7	0.81	-68.2	6000	—
0951	23.49	7.13	1994	7	0.80	-69.8	7500	—

Did well dewater? Yes No Amount actually evacuated: 7500 ml

Sampling Time: 0956 Sampling Date: 7/11/12

Sample I.D.: GMW-36 Laboratory: Alpha Analytical

Analyzed for: TPHg TPHfp VOC's MTBE Other: See Solw

Equipment Blank I.D.: @ Duplicate I.D.:

BLAINE

ECH 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 / of

CHAIN OF CUSTODY

(20709-DZ)

CLIENT

Kinder Morgan

SITE

DFSP Norwalk

15306 Norwalk Blvd, Norwalk

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

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												
TB-1	7/9/12	1230	AQ	2	1HCL	UCCS (400m)	X											
EXP-5		1347		6	1HCL		X	X										
EB-1		1357		6	1HCL		X	X										
ICW-13		1442		6	1HCL		X	X										
ICW-3		1523		6	1HCL		X	X										
EXP-1		0809		6	1HCL		X	X										
EXP-2		0847		6	1HCL		X	X										
EXP-3	✓	0922	✓	6	1HCL	✓	X	X										

SAMPLING COMPLETED ON 7/9/12 DATE 7/9/12 TIME 1600 SAMPLING PERFORMED BY D. Reynal / E. Vail RESULTS NEEDED NO LATER THAN Standard

RELEASED BY [Signature] TIME 1620 RECEIVED BY Nicole (sc) DATE 7/9/12 TIME 1620

RELEASED BY Nicole (sc) TIME 1730 RECEIVED BY [Signature] DATE 7/10/12 TIME 1730

RELEASED BY [Signature] TIME 1730 RECEIVED BY [Signature] DATE [] TIME []

SHIPPED VIA TIME SENT COOLER #

BLAINE

ECH 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

CHAIN OF CUSTODY

CLIENT Kinder Morgan
 SITE DFSP Norwalk
 15306 Norwalk Blvd, Norwalk

120709-Dr1

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

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	7/10/12	0700	AQ	2	HCL	40ml VOLS		X										
KW-7		0830	AQ	6	HCL		X	X										
EB-2		0840	AQ	6	HCL		X	X										
DUP-1			AQ	6	HCL		X	X										
MW-0-1		0917	AQ	6	HCL		X	X										
MW-0-2		0951	AQ	6	HCL		X	X										
MW-0-3		1027	AQ	6	HCL		X	X										
MW-0-14		1129	AQ	6	HCL		X	X										
DUP-2			AQ	6	HCL		X	X										
MW-0-16		1230	AQ	6	HCL		X	X										

SAMPLING COMPLETED ON 7/10/12 1555 PERFORMED BY D. Reynold RESULTS NEEDED NO LATER THAN Standard

LEASED BY	TIME 1600	RECEIVED BY Nicole (SC)	DATE 7/10/12	TIME 1600
LEASED BY Nicole (SC)	TIME 1730	RECEIVED BY	DATE 7/11/12	TIME 1730
LEASED BY	TIME 1730	RECEIVED BY	DATE	TIME
SHIPPED VIA	TIME SENT	COOLER #		

BLAINE

ECH 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 2

CHAIN OF CUSTODY
 CLIENT: **Kinder Morgan**
 SITE: **DFSP Norwalk**
15306 Norwalk Blvd, Norwalk

120709-DRI

TPHg, TPHd (EPA 8015M)
 VOC's & Oxygenates (EPA 8260B)

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

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS		TPHg	VOC's													
			AG# Water	#	Preservation															Type
MW-019	7/10/12	1258	AG	6	HCL	40ml VOC's	X	X												
MW-38		1347	AG	6	HCL		X	X												
MW-39		1426	AG	6	HCL		X	X												
PZ-5		1503	AG	6	HCL		X	X												

SAMPLING COMPLETED 7/10/12 DATE 1555 TIME PERFORMED BY D. Reynal

RELEASED BY [Signature] TIME 1600 RECEIVED BY Nicole (sc) DATE 7/10/12 TIME 1600

RELEASED BY Nicole (sc) TIME 1730 RECEIVED BY [Signature] DATE 7/11/12 TIME 1730

RELEASED BY [Signature] TIME 1730 RECEIVED BY [Signature] DATE TIME

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 1 of 1

CHAIN OF CUSTODY

120709-DK1

CLIENT

Kinder Morgan

SITE

DFSP Norwalk

15306 Norwalk Blvd, Norwalk

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

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS			TPHg, TPHd (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)												
			AG= Water	#	Preservation	Type														ADD'L INFORMATION
TB-3	7/11/12	0700	AG	2	HCL	40 ml Vials		X												
MW-0-15		0830	AG	6	HCL		X	X												
TB-3		0842	AG	6	HCL		X	X												
MW-0-18		0914	AG	6	HCL		X	X												
MW-36		0956	AG	6	HCL		X	X												

SAMPLING COMPLETED DATE 7/11/12 TIME 1600 SAMPLING PERFORMED BY D. Reyna

RESULTS NEEDED NO LATER THAN Standard

LEASED BY <u>[Signature]</u>	TIME <u>1605</u>	RECEIVED BY <u>Nicole (SC)</u>	DATE <u>7/11/12</u>	TIME <u>1605</u>
LEASED BY <u>Nicole (SC)</u>	TIME <u>1730</u>	RECEIVED BY <u>[Signature]</u>	DATE <u>7/11/12</u>	TIME <u>1730</u>
LEASED BY <u>[Signature]</u>	TIME <u>1730</u>	RECEIVED BY <u>[Signature]</u>	DATE <u>7/11/12</u>	TIME <u>1730</u>
SHIPPED VIA	TIME SENT	COOLER #		

Remediation Form 7.3-1, Well Inspection Checklist

Well Number: EXP-5 Inspector: DR Date: 2/19/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?	✓		
2	Is the well easily visible?	✓		
3	Is the well vault cover or protective casing clearly labeled?	✓		
4	Is a well identification tag present and legible?		✓	No ID
5	Is there any physical damage to the well, well vault and cover, or protective casing?		✓	
6	If applicable, is the cover to the well vault properly secured?	✓	NA	
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		✓	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	✓		
9	Is the well secured with a functioning lock?	✓		
10	Is the well fitted with a water tight well cap?	✓		
11	If applicable, is the well vault dry and free of debris?	✓		
12	What is the measured depth of the well?		DR	113.23
13	Is the measured depth consistent with the as-built record?	✓		
List any corrective measures to be considered:				

Remediation Form 7.3-1, Well Inspection Checklist

Well Number: WCW-7 Inspector: DR Date: 7/10/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?	✓		
2	Is the well easily visible?	✓		
3	Is the well vault cover or protective casing clearly labeled?		✓	
4	Is a well identification tag present and legible?		✓	
5	Is there any physical damage to the well, well vault and cover, or protective casing?	✓		2/2 tabs stripped
6	If applicable, is the cover to the well vault properly secured?		NA	↑
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		✓	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	✓		
9	Is the well secured with a functioning lock?	✓		
10	Is the well fitted with a water tight well cap?	✓		
11	If applicable, is the well vault dry and free of debris?	✓		
12	What is the measured depth of the well?			49.29
13	Is the measured depth consistent with the as-built record?	✓		
List any corrective measures to be considered:				

Remediation Form 7.3-1, Well Inspection Checklist

Well Number: GMW-0-1 Inspector: DR Date: 7/10/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?	✓		
2	Is the well easily visible?	✓		
3	Is the well vault cover or protective casing clearly labeled?		✓	
4	Is a well identification tag present and legible?		✓	
5	Is there any physical damage to the well, well vault and cover, or protective casing?		✓	
6	If applicable, is the cover to the well vault properly secured?		NA	2 1/2 tabs stripped. ↑
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		✓	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	✓		
9	Is the well secured with a functioning lock?	✓		
10	Is the well fitted with a water tight well cap?	✓		
11	If applicable, is the well vault dry and free of debris?	✓		
12	What is the measured depth of the well?			49.09
13	Is the measured depth consistent with the as-built record?	✓		
List any corrective measures to be considered:				

Remediation Form 7.3-1, Well Inspection Checklist

Well Number: GMW-0-2 Inspector: DA Date: 7/10/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?		✓	
2	Is the well easily visible?	✓		
3	Is the well vault cover or protective casing clearly labeled?		✓	
4	Is a well identification tag present and legible?		✓	
5	Is there any physical damage to the well, well vault and cover, or protective casing?		✓	
6	If applicable, is the cover to the well vault properly secured?		NA	2/2 tabs stripped. ↑
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		✓	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	✓		
9	Is the well secured with a functioning lock?	✓		
10	Is the well fitted with a water tight well cap?	✓		
11	If applicable, is the well vault dry and free of debris?	✓		
12	What is the measured depth of the well?			49.19
13	Is the measured depth consistent with the as-built record?	✓		
List any corrective measures to be considered:				

Remediation Form 7.3-1, Well Inspection Checklist

Well Number: GMW-03 Inspector: DR Date: 7/10/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?	✓		
2	Is the well easily visible?	✓		
3	Is the well vault cover or protective casing clearly labeled?		✓	
4	Is a well identification tag present and legible?		✓	
5	Is there any physical damage to the well, well vault and cover, or protective casing?		✓	
6	If applicable, is the cover to the well vault properly secured?		NA	2/2 tabs stripped. ↑
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		✓	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	✓		
9	Is the well secured with a functioning lock?	✓		
10	Is the well fitted with a water tight well cap?	✓		
11	If applicable, is the well vault dry and free of debris?	✓		
12	What is the measured depth of the well?		48.34 48.34	
13	Is the measured depth consistent with the as-built record?	✓		
List any corrective measures to be considered:				

Remediation Form 7.3-1, Well Inspection Checklist

Well Number: GAW-0-9 Inspector: DR Date: 7/11/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?	✓		
2	Is the well easily visible?	✓		
3	Is the well vault cover or protective casing clearly labeled?		✓	
4	Is a well identification tag present and legible?		✓	
5	Is there any physical damage to the well, well vault and cover, or protective casing?	✓		-2/2 bolts.
6	If applicable, is the cover to the well vault properly secured?		NA	Not a vault.
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		✓	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	✓		
9	Is the well secured with a functioning lock?	✓		
10	Is the well fitted with a water tight well cap?	✓		
11	If applicable, is the well vault dry and free of debris?	✓		
12	What is the measured depth of the well?			49.96
13	Is the measured depth consistent with the as-built record?	✓		
List any corrective measures to be considered:				

Remediation Form 7.3-1, Well Inspection Checklist

Well Number: GMW-0-10 Inspector: DR Date: 7/11/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?	✓		
2	Is the well easily visible?	✓		
3	Is the well vault cover or protective casing clearly labeled?		✓	
4	Is a well identification tag present and legible?		✓	
5	Is there any physical damage to the well, well vault and cover, or protective casing?	✓		-2/2 bolts.
6	If applicable, is the cover to the well vault properly secured?		NA	Not a vault.
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		✓	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	DR	✓	The apron is cracked.
9	Is the well secured with a functioning lock?	✓		
10	Is the well fitted with a water tight well cap?	✓		
11	If applicable, is the well vault dry and free of debris?	✓		
12	What is the measured depth of the well?			49.97
13	Is the measured depth consistent with the as-built record?	✓		
List any corrective measures to be considered:				

Remediation Form 7.3-1, Well Inspection Checklist

Well Number: GMW-12 Inspector: DK Date: 7/11/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?		✓	Gate access
2	Is the well easily visible?	✓		
3	Is the well vault cover or protective casing clearly labeled?		✓	
4	Is a well identification tag present and legible?		✓	
5	Is there any physical damage to the well, well vault and cover, or protective casing?		✓	
6	If applicable, is the cover to the well vault properly secured?		✓	No bolts to lock it down.
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		✓	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	✓		
9	Is the well secured with a functioning lock?	✓		
10	Is the well fitted with a water tight well cap?	✓		
11	If applicable, is the well vault dry and free of debris?	✓		
12	What is the measured depth of the well?			SPH
13	Is the measured depth consistent with the as-built record?	NA		
List any corrective measures to be considered:				

Remediation Form 7.3-1, Well Inspection Checklist

Well Number: GMW-0-20 Inspector: DR Date: 7/11/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?		✓	Gate access
2	Is the well easily visible?	✓		
3	Is the well vault cover or protective casing clearly labeled?		✓	
4	Is a well identification tag present and legible?		✓	
5	Is there any physical damage to the well, well vault and cover, or protective casing?		✓	
6	If applicable, is the cover to the well vault properly secured?		✓	No bolts to bolt down vault.
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		✓	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	✓		
9	Is the well secured with a functioning lock?	✓		
10	Is the well fitted with a water tight well cap?	✓		
11	If applicable, is the well vault dry and free of debris?	✓		
12	What is the measured depth of the well?			SPH
13	Is the measured depth consistent with the as-built record?	NA		
List any corrective measures to be considered:				

Remediation Form 7.3-1, Well Inspection Checklist

Well Number: GMW-0-14 Inspector: DR Date: 7/10/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?	✓		
2	Is the well easily visible?	✓		
3	Is the well vault cover or protective casing clearly labeled?		✓	
4	Is a well identification tag present and legible?		✓	
5	Is there any physical damage to the well, well vault and cover, or protective casing?		✓	
6	If applicable, is the cover to the well vault properly secured?	WA		-1/2 bolts. 1/2 bolts stripped. ↑
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		✓	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	✓		
9	Is the well secured with a functioning lock?	✓		
10	Is the well fitted with a water tight well cap?	✓		
11	If applicable, is the well vault dry and free of debris?	✓		
12	What is the measured depth of the well?			49.5 49.63
13	Is the measured depth consistent with the as-built record?	✓		
List any corrective measures to be considered:				



Remediation Form 7.3-1, Well Inspection Checklist

Well Number: GMW-0-17 Inspector: DR Date: 7/11/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?	✓		
2	Is the well easily visible?	✓		
3	Is the well vault cover or protective casing clearly labeled?		✓	
4	Is a well identification tag present and legible?		✓	
5	Is there any physical damage to the well, well vault and cover, or protective casing?	✓		2/2 tabs stripped.
6	If applicable, is the cover to the well vault properly secured?		NA	No vault.
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		✓	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	✓		
9	Is the well secured with a functioning lock?	DR	✓	No lock. Screws on metal cap.
10	Is the well fitted with a water tight well cap?	✓		
11	If applicable, is the well vault dry and free of debris?	✓		
12	What is the measured depth of the well?			39.72
13	Is the measured depth consistent with the as-built record?	✓		
List any corrective measures to be considered:				

Remediation Form 7.3-1, Well Inspection Checklist

Well Number: GMW-37 Inspector: DA Date: 7/11/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?	✓		
2	Is the well easily visible?	✓		
3	Is the well vault cover or protective casing clearly labeled?	✓		
4	Is a well identification tag present and legible?		✓	
5	Is there any physical damage to the well, well vault and cover, or protective casing?		✓	
6	If applicable, is the cover to the well vault properly secured?		NA	No lock on lid. ↑
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		✓	
8	Is the well pad in good condition (not cracked, settled, or elevated)?		✓	Pad severely cracked, Standpipe.
9	Is the well secured with a functioning lock?	✓		
10	Is the well fitted with a water tight well cap?	✓		
11	If applicable, is the well vault dry and free of debris?	✓		
12	What is the measured depth of the well?			53.39
13	Is the measured depth consistent with the as-built record?			
List any corrective measures to be considered:				



Remediation Form 7.3-1, Well Inspection Checklist

Well Number: GMW-SF-8 Inspector: DA Date: 7/10/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?	✓		
2	Is the well easily visible?	✓		
3	Is the well vault cover or protective casing clearly labeled?	✓		
4	Is a well identification tag present and legible?	✓		
5	Is there any physical damage to the well, well vault and cover, or protective casing?		✓	
6	If applicable, is the cover to the well vault properly secured?	NA		
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		✓	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	✓		
9	Is the well secured with a functioning lock?	✓		
10	Is the well fitted with a water tight well cap?	✓		
11	If applicable, is the well vault dry and free of debris?	✓		
12	What is the measured depth of the well?			43.58
13	Is the measured depth consistent with the as-built record?	✓		
List any corrective measures to be considered:				



Remediation Form 7.3-1, Well Inspection Checklist

Well Number: GMW-016 Inspector: DA Date: 7/10/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?	✓		
2	Is the well easily visible?	✓		
3	Is the well vault cover or protective casing clearly labeled?	✓		
4	Is a well identification tag present and legible?		✓	
5	Is there any physical damage to the well, well vault and cover, or protective casing?		✓	
6	If applicable, is the cover to the well vault properly secured?		NA	2/2 tabs stripped ↑
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		✓	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	✓		
9	Is the well secured with a functioning lock?	✓		
10	Is the well fitted with a water tight well cap?	✓		
11	If applicable, is the well vault dry and free of debris?	✓		
12	What is the measured depth of the well?		48.74	48.64
13	Is the measured depth consistent with the as-built record?	✓		
List any corrective measures to be considered:				

Remediation Form 7.3-1, Well Inspection Checklist

Well Number: GMW-a-19 Inspector: DR Date: 7/10/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?	✓		
2	Is the well easily visible?	✓		
3	Is the well vault cover or protective casing clearly labeled?	✓		
4	Is a well identification tag present and legible?		✓	
5	Is there any physical damage to the well, well vault and cover, or protective casing?		✓	
6	If applicable, is the cover to the well vault properly secured?	NA		
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		✓	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	✓		
9	Is the well secured with a functioning lock?	✓		
10	Is the well fitted with a water tight well cap?	✓		
11	If applicable, is the well vault dry and free of debris?	✓		
12	What is the measured depth of the well?			39.97
13	Is the measured depth consistent with the as-built record?	✓		
List any corrective measures to be considered:				

GMW-38

Well Number:

~~GMW-038~~ DR

Inspector:

DR

Date:

7/10/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?	✓		
2	Is the well easily visible?	✓		
3	Is the well vault cover or protective casing clearly labeled?	✓		
4	Is a well identification tag present and legible?		✓	
5	Is there any physical damage to the well, well vault and cover, or protective casing?		✓	
6	If applicable, is the cover to the well vault properly secured?	NA		
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		✓	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	✓		
9	Is the well secured with a functioning lock?	✓		
10	Is the well fitted with a water tight well cap?	✓		
11	If applicable, is the well vault dry and free of debris?	✓		
12	What is the measured depth of the well?			53 DR 53.07
13	Is the measured depth consistent with the as-built record?	✓		
List any corrective measures to be considered:				

Remediation Form 7.3-1, Well Inspection Checklist

Well Number: MW-8 Inspector: DR Date: 2/11/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?	✓		
2	Is the well easily visible?	✓		
3	Is the well vault cover or protective casing clearly labeled?	✓		
4	Is a well identification tag present and legible?	✓		
5	Is there any physical damage to the well, well vault and cover, or protective casing?		✓	
6	If applicable, is the cover to the well vault properly secured?	NA		
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		✓	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	✓		
9	Is the well secured with a functioning lock?	✓		
10	Is the well fitted with a water tight well cap?	✓		
11	If applicable, is the well vault dry and free of debris?	✓		
12	What is the measured depth of the well?			51.91
13	Is the measured depth consistent with the as-built record?	✓		
List any corrective measures to be considered:				

Remediation Form 7.3-1, Well Inspection Checklist

Well Number: GMW-39 ~~GMW-39~~ DA Inspector: DA Date: 7/10/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?	✓		
2	Is the well easily visible?	✓		
3	Is the well vault cover or protective casing clearly labeled?	✓		
4	Is a well identification tag present and legible?		✓	
5	Is there any physical damage to the well, well vault and cover, or protective casing?		✓	
6	If applicable, is the cover to the well vault properly secured?	NA		
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		✓	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	✓		
9	Is the well secured with a functioning lock?	✓		
10	Is the well fitted with a water tight well cap?	✓		
11	If applicable, is the well vault dry and free of debris?	✓		
12	What is the measured depth of the well?			50.50
13	Is the measured depth consistent with the as-built record?	✓		
List any corrective measures to be considered:				



Remediation Form 7.3-1, Well Inspection Checklist

Well Number: HIL-2 Inspector: DM Date: 7/9/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?	X		
2	Is the well easily visible?	X		
3	Is the well vault cover or protective casing clearly labeled?		X	Failed on ground
4	Is a well identification tag present and legible?		X	
5	Is there any physical damage to the well, well vault and cover, or protective casing?		X	
6	If applicable, is the cover to the well vault properly secured?	NA		
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		X	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	X		
9	Is the well secured with a functioning lock?	X		
10	Is the well fitted with a water tight well cap?	X		
11	If applicable, is the well vault dry and free of debris?	X		
12	What is the measured depth of the well?		39.5 39.13	
13	Is the measured depth consistent with the as-built record?	✓		
List any corrective measures to be considered:				



Remediation Form 7.3-1, Well Inspection Checklist

Well Number: PZ-2 Inspector: DA Date: 7/11/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?	<input checked="" type="checkbox"/>		
2	Is the well easily visible?	<input checked="" type="checkbox"/>		Conc next to it.
3	Is the well vault cover or protective casing clearly labeled?		<input checked="" type="checkbox"/>	
4	Is a well identification tag present and legible?		<input checked="" type="checkbox"/>	
5	Is there any physical damage to the well, well vault and cover, or protective casing?		<input checked="" type="checkbox"/>	
6	If applicable, is the cover to the well vault properly secured?		<input checked="" type="checkbox"/>	Not a vault. 2 bolts. ↑
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		<input checked="" type="checkbox"/>	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	<input checked="" type="checkbox"/>		
9	Is the well secured with a functioning lock?		<input checked="" type="checkbox"/>	PVC cap
10	Is the well fitted with a water tight well cap?	<input checked="" type="checkbox"/>		
11	If applicable, is the well vault dry and free of debris?	<input checked="" type="checkbox"/>		
12	What is the measured depth of the well?			49.44
13	Is the measured depth consistent with the as-built record?	<input checked="" type="checkbox"/>		
List any corrective measures to be considered:				

Remediation Form 7.3-1, Well Inspection Checklist

Well Number: Com. 27 Inspector: DR Date: 7/9/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?	X	NA	
2	Is the well easily visible?	X		
3	Is the well vault cover or protective casing clearly labeled?	X		
4	Is a well identification tag present and legible?		X	
5	Is there any physical damage to the well, well vault and cover, or protective casing?		X	
6	If applicable, is the cover to the well vault properly secured?	NA		
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		X	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	X		
9	Is the well secured with a functioning lock?	X		
10	Is the well fitted with a water tight well cap?	X		
11	If applicable, is the well vault dry and free of debris?	X		
12	What is the measured depth of the well?			49.09
13	Is the measured depth consistent with the as-built record?	X		
List any corrective measures to be considered:				

Remediation Form 7.3-1, Well Inspection Checklist

Well Number: GMW-1 Inspector: Dr Date: 2/11/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?	✓		
2	Is the well easily visible?	✓		
3	Is the well vault cover or protective casing clearly labeled?	✓		
4	Is a well identification tag present and legible?		✓	
5	Is there any physical damage to the well, well vault and cover, or protective casing?		✓	
6	If applicable, is the cover to the well vault properly secured?	NA		
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		✓	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	✓		
9	Is the well secured with a functioning lock?	✓		
10	Is the well fitted with a water tight well cap?	✓		
11	If applicable, is the well vault dry and free of debris?	✓		
12	What is the measured depth of the well?			49.33
13	Is the measured depth consistent with the as-built record?	✓		
List any corrective measures to be considered:				



Remediation Form 7.3-1, Well Inspection Checklist

Well Number: MW-SF-9 Inspector: DA Date: 7/11/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?	✓		
2	Is the well easily visible?	✓		
3	Is the well vault cover or protective casing clearly labeled?	✓		
4	Is a well identification tag present and legible?		✓	
5	Is there any physical damage to the well, well vault and cover, or protective casing?		✓	
6	If applicable, is the cover to the well vault properly secured?	NA		
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		✓	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	✓		
9	Is the well secured with a functioning lock?	✓		
10	Is the well fitted with a water tight well-cap?	✓		
11	If applicable, is the well vault dry and free of debris?	✓		
12	What is the measured depth of the well?			38.30
13	Is the measured depth consistent with the as-built record?	✓		
List any corrective measures to be considered:				

Remediation Form 7.3-1, Well Inspection Checklist

Well Number: GMW-0-23 Inspector: DR Date: 7/11/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?		<input checked="" type="checkbox"/>	Good access
2	Is the well easily visible?	<input checked="" type="checkbox"/>		
3	Is the well vault cover or protective casing clearly labeled?		<input checked="" type="checkbox"/>	
4	Is a well identification tag present and legible?		<input checked="" type="checkbox"/>	
5	Is there any physical damage to the well, well vault and cover, or protective casing?		<input checked="" type="checkbox"/>	
6	If applicable, is the cover to the well vault properly secured?		<input checked="" type="checkbox"/>	No bolts to hold it down.
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		<input checked="" type="checkbox"/>	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	<input checked="" type="checkbox"/>		
9	Is the well secured with a functioning lock?	<input checked="" type="checkbox"/>		
10	Is the well fitted with a water tight well cap?	<input checked="" type="checkbox"/>		
11	If applicable, is the well vault dry and free of debris?	<input checked="" type="checkbox"/>		
12	What is the measured depth of the well?			29.14
13	Is the measured depth consistent with the as-built record?	<input checked="" type="checkbox"/>		
List any corrective measures to be considered:				



Remediation Form 7.3-1, Well Inspection Checklist

Well Number: GMW-30 Inspector: DR Date: 7/9/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?	✓		
2	Is the well easily visible?	✓		
3	Is the well vault cover or protective casing clearly labeled?		✓	Not there.
4	Is a well identification tag present and legible?		✓	
5	Is there any physical damage to the well, well vault and cover, or protective casing?	✓		No lid at all.
6	If applicable, is the cover to the well vault properly secured?		NA	
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		✓	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	✓		
9	Is the well secured with a functioning lock?	✓		
10	Is the well fitted with a water tight well cap?	✓		
11	If applicable, is the well vault dry and free of debris?		✓	Dirt and debris in it.
12	What is the measured depth of the well?			49.73
13	Is the measured depth consistent with the as-built record?	✓		
List any corrective measures to be considered:				

Well Number: MW-SF-5 Inspector: Du Date: 7/11/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?	✓		
2	Is the well easily visible?	✓		
3	Is the well vault cover or protective casing clearly labeled?	✓		
4	Is a well identification tag present and legible?	✓		
5	Is there any physical damage to the well, well vault and cover, or protective casing?		✓	
6	If applicable, is the cover to the well vault properly secured?	MA		
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		✓	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	✓		
9	Is the well secured with a functioning lock?		✓	PVC cap
10	Is the well fitted with a water tight well cap?	✓		
11	If applicable, is the well vault dry and free of debris?	✓		
12	What is the measured depth of the well?			50.99
13	Is the measured depth consistent with the as-built record?	✓		
List any corrective measures to be considered:				



Remediation Form 7.3-1, Well Inspection Checklist

Well Number: MW-SF-6 Inspector: DA Date: 7/11/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?	✓		
2	Is the well easily visible?	✓		
3	Is the well vault cover or protective casing clearly labeled?	✓		
4	Is a well identification tag present and legible?	✓		
5	Is there any physical damage to the well, well vault and cover, or protective casing?		✓	
6	If applicable, is the cover to the well vault properly secured?	NA		Not a vault.
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		✓	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	✓		
9	Is the well secured with a functioning lock?		✓	No lock.
10	Is the well fitted with a water tight well cap?		✓	No cap, just lid on box.
11	If applicable, is the well vault dry and free of debris?	✓		
12	What is the measured depth of the well?			41.40
13	Is the measured depth consistent with the as-built record?	✓		
List any corrective measures to be considered:				

Remediation Form 7.3-1, Well Inspection Checklist

Well Number: MW-SF-1 Inspector: DR Date: 7/11/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?	✓		
2	Is the well easily visible?	✓		
3	Is the well vault cover or protective casing clearly labeled?	✓		
4	Is a well identification tag present and legible?	✓		
5	Is there any physical damage to the well, well vault and cover, or protective casing?		✓	
6	If applicable, is the cover to the well vault properly secured?		NA	No lock. Rubber cap. ↑
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		✓	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	✓		
9	Is the well secured with a functioning lock?		✓	
10	Is the well fitted with a water tight well cap?	✓		
11	If applicable, is the well vault dry and free of debris?	✓		
12	What is the measured depth of the well?			51.27
13	Is the measured depth consistent with the as-built record?	✓		
List any corrective measures to be considered:				

Remediation Form 7.3-1, Well Inspection Checklist

Well Number: MW-SF-4 Inspector: DK Date: 2/11/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?	✓		
2	Is the well easily visible?	✓		
3	Is the well vault cover or protective casing clearly labeled?	✓		
4	Is a well identification tag present and legible?	✓		
5	Is there any physical damage to the well, well vault and cover, or protective casing?		✓	
6	If applicable, is the cover to the well vault properly secured?	NA		
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		✓	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	✓		
9	Is the well secured with a functioning lock?		✓	Stand pipe, PVC piping
10	Is the well fitted with a water tight well cap?		✓	↓
11	If applicable, is the well vault dry and free of debris?	✓		
12	What is the measured depth of the well?			44.38
13	Is the measured depth consistent with the as-built record?	✓		
List any corrective measures to be considered:				

Remediation Form 7.3-1, Well Inspection Checklist

Well Number: GMW-0-18 Inspector: DJ Date: 7/11/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?	✓		
2	Is the well easily visible?	✓		
3	Is the well vault cover or protective casing clearly labeled?		✓	
4	Is a well identification tag present and legible?		✓	
5	Is there any physical damage to the well, well vault and cover, or protective casing?		✓	
6	If applicable, is the cover to the well vault properly secured?		✓	Large vault. No bolts.
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		✓	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	✓		
9	Is the well secured with a functioning lock?		✓	
10	Is the well fitted with a water tight well cap?	✓		
11	If applicable, is the well vault dry and free of debris?	✓		
12	What is the measured depth of the well?			Ext Pump in well.
13	Is the measured depth consistent with the as-built record?	NA		
List any corrective measures to be considered:				

Well Number: PZ-5 Inspector: DR Date: 7/12/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?	✓		
2	Is the well easily visible?	✓		
3	Is the well vault cover or protective casing clearly labeled?		✓	
4	Is a well identification tag present and legible?		✓	
5	Is there any physical damage to the well, well vault and cover, or protective casing?		✓	
6	If applicable, is the cover to the well vault properly secured?	NA		
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		✓	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	✓		
9	Is the well secured with a functioning lock?	✓		
10	Is the well fitted with a water tight well cap?	✓		
11	If applicable, is the well vault dry and free of debris?	✓		
12	What is the measured depth of the well?			38.44
13	Is the measured depth consistent with the as-built record?	✓		
List any corrective measures to be considered:				

Remediation Form 7.3-1, Well Inspection Checklist

Well Number: GMW-0-15 Inspector: DR Date: 7/11/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?		✓	Need gate access from security
2	Is the well easily visible?	✓		
3	Is the well vault cover or protective casing clearly labeled?	✓		
4	Is a well identification tag present and legible?		✓	
5	Is there any physical damage to the well, well vault and cover, or protective casing?		✓	
6	If applicable, is the cover to the well vault properly secured?		✓	Large vault - Nothing to bolt it down.
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		✓	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	✓		
9	Is the well secured with a functioning lock?		✓	
10	Is the well fitted with a water tight well cap?		✓	PVC cap
11	If applicable, is the well vault dry and free of debris?	✓		
12	What is the measured depth of the well?			47.29
13	Is the measured depth consistent with the as-built record?	✓		
List any corrective measures to be considered:				



Remediation Form 7.3-1, Well Inspection Checklist

Well Number: GMW-36 Inspector: DR Date: 7/11/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?	✓		
2	Is the well easily visible?	✓		
3	Is the well vault cover or protective casing clearly labeled?		✓	
4	Is a well identification tag present and legible?		✓	
5	Is there any physical damage to the well, well vault and cover, or protective casing?		✓	
6	If applicable, is the cover to the well vault properly secured?	NA		
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		✓	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	✓		
9	Is the well secured with a functioning lock?		✓	Ext. Well. Active.
10	Is the well fitted with a water tight well cap?	✓		
11	If applicable, is the well vault dry and free of debris?	✓		
12	What is the measured depth of the well?			Ext. well. Pump in well.
13	Is the measured depth consistent with the as-built record?	NA		
List any corrective measures to be considered:				

APPENDIX B

**Well Gauging, Purging, and Sampling Records
October 2012 Semiannual Event**

DFSP Norwalk Quarterly GWM -October 2012
Gauging Data

Well No.	Date	Time	DTP	DTW	Notes
EXP-1	10-11-12	1110	—	53.96	
EXP-2	10-11-12	0833	—	54.09	
EXP-3	10-11-12	1434	—	52.88	
GMW-5	10-11-12	0925	0929	31.98	
GMW-6	10-11-12	0935	Sheen	31.52	
GMW-12	10-11-12	1320	—	29.27	
GMW-15	10-11-12	0945	—	30.47	
GMW-16	10-4-12	0911	—	31.32	
GMW-17	10-11-12	1220	—	— nm	Bees in well
GMW-19	10-11-12	1224	—	31.09	
GMW-21	10-11-12	0852	—	30.32 Day	Sock in well
GMW-31	10-11-12	1105	—	30.87	
GMW-32	10-11-12	1338	—	28.69	
GMW-33	10-11-12	—	—	—	Damaged
GMW-41	10-11-12	1329	—	28.62	
GMW-43	10-11-12	1120	—	29.74	
GMW-44	10-11-12	1942	—	28.98	
GMW-45	10-11-12	0950 0940	—	29.97 30.68	
GMW-47	10-11-12	1027	—	30.29	
GMW-48	10-11-12	1131	—	28.50	
GMW-56	10-11-12	0942	—	30.68	
GMW-57	10-11-12	1032	—	30.91	
GMW-58	10-11-12	1413	—	28.78	
GMW-59	10-11-12	1122	—	28.28	

**DFSP Norwalk Quarterly GWM -October 2012
Gauging Data**

Well No.	Date	Time	DTP	DTW	Notes
GMW-60	10-11-12	1053	-	30.90	
GMW-61	↓	1059	-	29.84	
GMW-62		0758	30.18	30.67	
GMW-63		0729	sheen	31.03	
GMW-64		0740	-	29.48	
GMW-65		0748	-	30.81	
GMW-66		1038	-	31.14	
GW-1	0759	10-11-12	-	30.32	
GW-2	10-11-12	0823	-	30.06	
GW-3	10-11-12	0829	-	30.18	
GW-4	10-11-12	-	-	NM	Pumpin well. no access
GW-5	10-11-12	0842	-	31.33	
GW-6	10-11-12	0846	-	30.74	
GW-7	10-11-12	1053	-	29.44	
GW-8	10-11-12	0915	-	30.48	
GW-13	0813	10-11-12	-	31.32	
GW-14	10-11-12	1237	-	30.96	
GW-15	10-11-12	1438	-	30.17	
GW-16	10-11-12	1045	-	31.03	
MW-10	10-11-12	0918	-	33.42	
MW-13	10-11-12	1022	-	32.56	
MW-14	0817	10-11-12	-	32.93	
MW-16	10-11-12	1406	-	30.87	
MW-17	10-11-12	1106	sheen	32.05	

DFSP Norwalk Quarterly GWM -October 2012
Gauging Data

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Well No.	Date	Time	DTP	DTW	Notes
MW-22(MID)	10-11-12	1025	-	35.12	
MW-23(MID)	10-11-12	0905	-	33.89	
MW-24	10-11-12	0836	-	32.90	
MW-25	10-11-12	1021	-	33.48	
MW-26	10-11-12	1031	-	31.71	
MW-27	10-11-12	1037	-	32.62	
MW-29	10-11-12	1347	-	33.29	
PZ-3	10-11-12	1318	30.14	30.37	
TF-8	10-11-12	1048	-	29.03	
TF-9	10-11-12	1044	-	28.47	
TF-10	10-11-12	1322	-	27.52	
TF-11	10-11-12	1110	-	28.46	
TF-13	10-11-12	-	-	NM	Bees in well
TF-14	10-11-12	-	-	NM	Bees in well
TF-15	10-11-12	1233	Shlen	29.73	
TF-16	10-11-12	1228	-	29.87	
TF-17	10-11-12	1228	29.00	29.09	
TF-18	10-11-12	1353	27.72	28.03	sock in well
TF-19	10-11-12	1347	-	28.85	
TF-20	10-11-12	1142	29.94	29.96	
TF-21	10-11-12	1443	-	28.92	
TF-22	10-11-12	1207	28.94	28.95	
TF-23	10-11-12	1156	29.27	29.36	
TF-24	10-11-12	0907	-	30.26	

WELL GAUGING DATA

Project # 121015-EB1 Date 10/15/12 Client PARSONS

Site PARSONS @ DURWALK

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
EXP-1	0827	4					53.63	128.63		10/15/12
EXP-2	0924	4					53.96	128.53		10/15/12
EXP-3	1017	4					52.80	123.62		10/15/12
GMW-6	1110	4					31.33	49.58		10/15/12
GMW-12	1200	4					29.18	49.46		10/15/12
GMW-15	1245	4					30.16	49.55		10/15/12
GMW-16	1328	4					31.16	50.20		10/15/12
GMW-18	1401	—	UNABLE TO	ACCESS / BEE HIVE			IN WELL			10/15/12
GMW-19	1410	4					30.86	40.79		10/15/12
GMW-17	0730	4					31.78	49.17		10/14/12
GMW-44	0840	4					28.84	49.36		10/16/12
MW-16	0800	4					32.74	50.76		10/16/12
GMW-43	0906	4					28.57	49.87		10/16/12
GMW-31	0935	4					30.95	63.65		10/16/12
GMW-41	1005	4					28.44	49.67		10/16/12
MW-25	1041	4					33.20	47.16		10/16/12
MW-26	1128	4					31.49	47.25		10/16/12

WELL GAUGING DATA

Project # 121015-EB1 Date 10/18/12 Client PARSONS

Site PARSONS @ NORWALK

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or FOC	Notes
MW-27	1205	4					32.46	52.79		10/16/12
MW-24	1255	4					32.73	47.15		10/16/12
MW-13	1328	4					32.28	51.86		10/16/12
GMW-57	1407	4					30.60	54.29		10/16/12
GMW-62	0743	4	SPH / NOOR	30.12	0.53		30.65	—		10/17/12
GMW-65	0811	4					30.46	40.80		10/17/12
GMW-64	0904	4					29.27	39.89		10/17/12
GMW-63	0947	4					30.81	40.11		10/17/12
GMW-66	1045	4					30.89	39.80		10/17/12
GMW-58	1136	4					28.70	54.14		10/17/12
GMW-45	1226	4					29.77	49.87		10/17/12
GMW-47	1318	4					29.99	49.72		10/17/12
GMW-60	1403	4					30.15	39.95		10/17/12
NCW-12	0805	4					29.56	59.93		10/18/12
NCW-2	0850	4					28.73	52.29		10/18/12
NCW-4	0932	4					32.18	51.67		10/18/12
NCW-14	1010	4					32.53	58.74		10/18/12

WELL GAUGING DATA

Project # 121015-EBI Date 10/19/12 Client PARSONS

Site PARSONS @ NORWALK

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
WCW-8	1050	4					31.59	51.52		10/18/12
WCW-6	1139	4					29.09	50.80		10/18/12
WCW-5	1236	4					26.37	50.20		10/18/12
MW-22(M)	1340	4					35.01	57.67		10/18/12
MW-14	1408	4					32.70	51.85		10/18/12
GMW-6	0745	4					30.56	60.13		10/19/12
PZ-3	0829	2					31.82	56.55		10/19/12
MW-22(M)	0914	4					33.84	57.00		10/19/12
GMW-61	1000	4					29.62	39.73		10/19/12
GMW-59	1053	4					28.24	53.62		10/19/12
GMW-32	1200	4					28.85	51.01		10/19/12

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: EB	Gauging Date: 10/15/12
Well I.D.: EXP-1	Well Diameter (in.): 2 3 ④ 6 8
Total Well Depth (ft.): 178.63	Depth to Water (ft.): 53.63
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: 0836 Flow Rate: 200 mL/MIN Pump Depth: 97'

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 (ft.)
0839	22.94	7.18	1068	4	0.79	-64.4	600	53.64
0842	22.94	7.17	1072	1	0.67	-58.8	1200	53.64
0845	22.95	7.17	1072	1	0.66	-58.6	1800	53.64
0848	22.98	7.17	1073	2	0.65	-54.1	2400	53.64
0851	22.99	7.17	1074	2	0.65	-51.4	3000	53.64
0854	23.04	7.17	1074	1	0.64	-50.0	3600	53.64

Did well dewater? Yes <input checked="" type="radio"/> No	Amount actually evacuated: 3600
Sampling Time: 0855	Sampling Date: 10/15/12
Sample I.D.: EXP-1	Laboratory: CALSCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: SEE C.O.C.
Equipment Blank I.D.: @	Duplicate I.D.:

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555

*COLLECTED SPLIT FOR EMCP

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015 - EB1	Client: PARSONS
Sampler: EB	Gauging Date: 10/15/12
Well I.D.: EXP-2	Well Diameter (in.): 2 3 (4) 6 8
Total Well Depth (ft.): 128.53	Depth to Water (ft.): 53.96
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: NSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0932 Flow Rate: 200 mL/min Pump Depth: 105'

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 (ft.)
0935	24.56	7.01	1603	3	1.15	-27.3	600	54.12
0938	24.54	7.00	1616	3	0.78	-18.4	1200	54.12
0941	24.48	6.98	1634	2	0.46	-8.0	1800	54.12
0944	24.46	6.99	1633	3	0.47	-5.5	2400	54.12
0947	24.39	6.99	1635	2	0.46	-0.3	3000	54.12
0950	24.37	6.99	1635	2	0.46	0.4	3600	54.12

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 3600
Sampling Time: 0951	Sampling Date: 10/15/12
Sample I.D.: EXP-2	Laboratory: CALSCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: SEE C.O.C.
Equipment Blank I.D.: @	Duplicate I.D.:

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* COLLECTED SPLIT FOR KIMEP

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: BS	Gauging Date: 10/15/12
Well I.D.: EXP-3	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): 123.62	Depth to Water (ft.): 52.80
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: 1026 Flow Rate: 200 mL/MIN Pump Depth: 100'

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 (ft.)
1029	24.88	7.18	924	2	1.02	-34.6	600	52.86
1032	24.62	7.15	931	1	0.69	-20.8	1200	52.86
1035	24.61	7.15	933	1	0.51	-14.9	1800	52.86
1038	24.58	7.14	934	∅	0.41	-8.9	2400	52.86
1041	24.54	7.14	934	∅	0.41	-8.8	3000	52.86
1044	24.54	7.14	934	1	0.40	-8.8	3600	52.86

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 3600
Sampling Time: 1045	Sampling Date: 10/15/12
Sample I.D.: EXP-3	Laboratory: CALSCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: SEE C.O.C.
Equipment Blank I.D.: @ _____	Duplicate I.D.:

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555
 X COLLECTED SPLIT FOR KM @

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: EB	Gauging Date: 10/15/12
Well I.D.: 6MW-6	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): 49.58	Depth to Water (ft.): 31.33
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: VSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1122 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 (ft.)
1125	29.09	7.09	586	2	0.61	21.6	600	31.38 31.03
1128	28.87	7.06	585	2	0.44	24.6	1200	31.38
1131	28.81	7.00	581	1	0.33	27.7	1800	31.38
1134	28.77	6.94	581	1	0.33	27.6	2400	31.38
1137	28.75	6.94	580	1	0.32	27.8	3000	31.38

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 3000
Sampling Time: 1138	Sampling Date: 10/15/12
Sample I.D.: 6MW-6	Laboratory: MASCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: SEE C.O.C.
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: EB	Gauging Date: 10/15/12
Well I.D.: GMW-12	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): 49.46	Depth to Water (ft.): 29.18
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: 1208 Flow Rate: 200 mL / MIN Pump Depth: 38.5'

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 (ft.)
1211	25.40	6.54	1460	11	0.45	33.9	600	29.19
1214	25.32	6.54	1460	11	0.44	33.9	1200	29.19
1217	25.27	6.55	1461	9	0.45	32.8	1800	29.19
1220	25.29	6.56	1457	7	0.45	32.2	2400	29.19
1223	25.27	6.57	1458	8	0.46	32.1	3000	29.19
1226	25.26	6.57	1458	7	0.46	32.0	3600	29.19

Did well dewater? Yes <input checked="" type="radio"/> No <input type="radio"/>	Amount actually evacuated: 3600
Sampling Time: 1227	Sampling Date: 10/15/12
Sample I.D.: GMW-12	Laboratory: CALSCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: SEE C.O.C.
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: EB	Gauging Date: 10/15/12
Well I.D.: GMW-15	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): 49.55	Depth to Water (ft.): 30.16
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: 1256 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 (ft.)
1259	31.78	6.81	1512	2	0.64	68.1	600	30.34
1302	31.78	6.81	1534	1	0.53	69.2	1200	30.34
1305	31.79	6.81	1545	1	0.42	69.8	1800	30.34
1308	31.76	6.81	1548	1	0.42	70.3	2400	30.34
1311	31.76	6.81	1547	1	0.43	70.6	3000	30.34

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 3000
Sampling Time: 1312	Sampling Date: 10/15/12
Sample I.D.: GMW-15	Laboratory: CALSCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: SEE C.O.C.
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: EB	Gauging Date: 10/15/12
Well I.D.: GMMW-16	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): 50.20	Depth to Water (ft.): 31.16
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVO</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: 1337 Flow Rate: 200 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 <u>ml</u>)	Depth to Water (ft.)
1340	23.52	6.90	1021	9	0.65	25.3	600	31.16
1343	23.29	6.88	1018	7	0.64	26.1	1200	31.16
1346	23.12	6.87	1019	4	0.53	25.7	1800	31.16
1349	23.10	6.87	1023	4	0.54	24.8	2400	31.16
1352	23.05	6.87	102	5	0.54	24.7	3000	31.16

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 3000
Sampling Time: 1353	Sampling Date: 10/15/12
Sample I.D.: GMMW-16	Laboratory: CAUSCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	<u>Other</u> : SEE C.O.C.
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: EB	Gauging Date: 10/15/12
Well I.D.: FMW-17	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.): —	Depth to Water (ft.): —
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: PVC Grade	Flow Cell Type: —

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 (ft.)
—	UNABLE TO ACCESS WELL							
—	BEEHIVE IN WELL							
—	NO SAMPLES TAKEN							

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: _____
Sampling Time: _____	Sampling Date: _____
Sample I.D.: _____	Laboratory: _____
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: _____
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: EB	Gauging Date: 10/15/12
Well I.D.: GMW-19	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): 46.29	Depth to Water (ft.): 30.86
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
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1435 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 (ft.)
1438	25.44	6.91	631	6	1.13	18.3	600	30.90
1441	24.86	6.86	646	4	0.41	20.6	1200	30.90
1444	24.81	6.87	650	3	0.39	19.8	1800	30.90
1447	24.74	6.87	652	3	0.39	18.3	2400	30.90
1450	24.72	6.87	65	3	0.38	17.9	3000	30.90

Did well dewater? Yes <input checked="" type="radio"/> No <input type="radio"/>	Amount actually evacuated: 3000
Sampling Time: 1451	Sampling Date: 10/15/12
Sample I.D.: GMW-19	Laboratory: CALSCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: SEE C.O.C.
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: EB	Gauging Date: 10/16/12
Well I.D.: GAW-31	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.): 63.65	Depth to Water (ft.): 30.95
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>RVC</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: 0944 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 (ft.)
0947	23.20	6.90	1071	4	0.56	-59.0	600	30.95
0950	23.16	6.89	1072	3	0.54	-57.7	1200	30.95
0953	23.16	6.90	1073	2	0.49	-57.7	1800	30.95
0956	23.19	6.90	1072	3	0.48	-59.9	2400	30.95
0959	23.22	6.91	1072	2	0.48	-60.5	3000	30.95

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>3000</u>
Sampling Time: <u>1000</u>	Sampling Date: <u>10/16/12</u>
Sample I.D.: <u>GAW-31</u>	Laboratory: <u>CALSCLENCE</u>
Analyzed for: TPH-G BTEX MTBE TPH-D Other: <u>SEE C.D.C.</u>	
Equipment Blank I.D.: @ Duplicate I.D.:	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: EB	Gauging Date: 10/19/12
Well I.D.: GMMW-32	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): 51.01	Depth to Water (ft.): 28.85
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVE</u> Grade	Flow Cell Type: <u>YSI 552</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1205 Flow Rate: 200 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 (ft.)
1208	23.68	6.54	1293	12	3.36	-62.1	600	28.98
1211	23.64	6.53	1293	9	3.17	-60.6	1200	28.98
1214	23.49	6.53	1294	8	3.17	-61.4	1800	28.98
1217	23.48	6.53	1303	7	3.14	-63.1	2400	28.98
1220	23.47	6.53	1306	7	3.15	-63.3	3000	28.98
1223	23.47	6.53	1308	7	3.14	-63.6	3600	28.98

Did well dewater? Yes <input checked="" type="radio"/> No <input type="radio"/>	Amount actually evacuated: 3600
Sampling Time: 1224	Sampling Date: 10/19/12
Sample I.D.: GMMW-32	Laboratory: CHLSCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: SEE C.D.C.
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: EB	Gauging Date: 10/16/12
Well I.D.: GWW-41	Well Diameter (in.): 2 3 ④ 6 8
Total Well Depth (ft.): 49.67	Depth to Water (ft.): 28.44
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 5576

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1018 Flow Rate: 200 mL/MIN Pump Depth: 37.5

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 (ft.)
1021	23.37	7.17	1304	7	0.77	14.9	600	28.49
1024	23.24	7.13	1300	8	0.65	18.4	1200	28.49
1027	23.22	7.14	1303	8	0.37	14.8	1800	28.49
1030	23.23	7.14	1300	8	0.37	14.4	2400	28.49
1033	23.22	7.14	1299	8	0.38	13.0	3000	28.49

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 3000
Sampling Time: 1034	Sampling Date: 10/16/12
Sample I.D.: GWW-41	Laboratory: CALSCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: SEE L.O.C.
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: EB	Gauging Date: 10/16/12
Well I.D.: Gmw-43	Well Diameter (in.): 2 3 <u>(4)</u> 6 8
Total Well Depth (ft.): 49.87	Depth to Water (ft.): 28.57
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: 0913 Flow Rate: 200 mL/min Pump Depth: 38'

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 (ft.)
0916	22.65	6.88	716	11	1.13	14.8	600	28.65
0919	22.53	6.85	713	12	0.74	13.7	1200	28.65
0922	22.51	6.86	713	9	0.55	13.1	1800	28.65
0925	22.49	6.86	712	9	0.56	12.7	2400	28.65
0928	22.48	6.86	712	8	0.57	12.5	3000	28.65

Did well dewater? Yes <u>(NO)</u>	Amount actually evacuated: <u>3000</u>
Sampling Time: <u>0929</u>	Sampling Date: <u>10/16/12</u>
Sample I.D.: <u>Gmw-43</u>	Laboratory: <u>CALSCIENCE</u>
Analyzed for: TPH-G BTEX MTBE TPH-D <u>(Other) SEE C.O.C.</u>	
Equipment Blank I.D.: @ Time Duplicate I.D.:	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-221	Client: PARSONS
Sampler: ETS	Gauging Date: 10/16/12
Well I.D.: GMW-44	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): 49.36	Depth to Water (ft.): 28.84
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: YS1556

Purge Method: 2" Grundfos Pump	Peristaltic Pump	Bladder Pump
Sampling Method: <u>Dedicated</u> Tubing	New Tubing	Other
Start Purge Time: <u>0846</u>	Flow Rate: <u>200 mL/MIN</u>	Pump Depth: <u>38</u>

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 (ft.)
0849	22.73	6.63	919	6	0.82	7.7	600	28.90
0852	22.66	6.63	917	6	0.76	6.7	1200	28.90
0855	22.65	6.63	914	6	0.70	6.4	1800	28.90
0858	22.66	6.62	912	6	0.73	6.5	2400	28.90
0901	22.67	6.62	913	6	0.73	6.5	3000	28.90

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: <u>3000</u>
Sampling Time: <u>0902</u>	Sampling Date: <u>10/16/12</u>
Sample I.D.: <u>GMW-44</u>	Laboratory: <u>CALSCIENCE</u>
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: <u>SEE C.O.C.</u>
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: EB	Gauging Date: 10/17/12
Well I.D.: Gmw-45	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): 49.87	Depth to Water (ft.): 29.77
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVE</u> Grade	Flow Cell Type: <u>YS1556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1243 Flow Rate: 200 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 mL)	Depth to Water (ft.)
1246	23.54	6.80	1509	8	1.06	-87.3	600	29.82
1249	23.26	6.81	1500	7	0.99	-83.6	1200	29.82
1252	23.24	6.81	1498	7	1.00	-84.0	1800	29.82
1255	23.24	6.81	1500	8	1.00	-84.2	2400	29.82
1258	23.29	6.81	1498	8	1.01	-84.6	3000	29.82

Did well dewater? Yes <u>(No)</u>	Amount actually evacuated: 3000
Sampling Time: 1259	Sampling Date: 10/17/12
Sample I.D.: Gmw-45	Laboratory: CALSCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: <u>SEE C.D.C.</u>
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: EB	Gauging Date: 10/17/12
Well I.D.: GMW-47	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): 49.72	Depth to Water (ft.): 29.99
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: 1327 Flow Rate: 200 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 (ft.)
1330	26.73	6.46	2312	9	2.53	32.2	600	30.04
1333	26.19	6.47	2301	7	3.11	30.8	1200	30.05
1336	25.72	6.54	2293	7	4.46	25.0	1800	30.06
1339	25.69	6.54	2297	7	4.62	24.6	2400	30.07
1342	25.57	6.55	2296	6	4.63	23.8	3000	30.08
1345	25.55	6.55	2297	7	4.63	23.6	3600	30.09

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: <u>3600</u>
Sampling Time: <u>1346</u>	Sampling Date: <u>10/17/12</u>
Sample I.D.: <u>GMW-47</u>	Laboratory: <u>CALSCEINCE</u>
Analyzed for: TPH-G BTEX MTBE TPH-D <u>Other: SEE G.D.C.</u>	
Equipment Blank I.D.: @ _____ Time _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: QB	Gauging Date: 10/16/12
Well I.D.: GMW-57	Well Diameter (in.): 2 3 (4) 6 8
Total Well Depth (ft.): 54.29	Depth to Water (ft.): 30.60
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: 1412 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 (ft.)
1415	24.91	6.76	1622	1	0.91	-32.0	600	30.61
1418	24.76	6.76	1623	1	0.88	-31.8	1200	30.61
1421	24.59	6.75	1625	1	0.77	-32.3	1800	30.61
1424	24.54	6.75	1626	1	0.78	-32.4	2400	30.61
1427	24.50	6.75	1626	1	0.78	-32.3	3000	30.61

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 3000
Sampling Time: 1428	Sampling Date: 10/16/12
Sample I.D.: GMW-57	Laboratory: CALSCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	<u>Other</u> SEE C.O.C.
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: EB	Gauging Date: 10/17/12
Well I.D.: 6MW-58	Well Diameter (in.): 2 3 (4) 6 8
Total Well Depth (ft.): 54.14	Depth to Water (ft.): 28.70
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: Y11556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1145 Flow Rate: 200ml/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 (ft.)
1148	24.33	6.71	1564	7	1.36	-72.5	600	28.77
1151	24.06	6.71	1576	4	1.19	-74.3	1200	28.77
1154	24.08	6.71	1582	3	1.10	-74.7	1800	28.77
1157	24.10	6.71	1580	3	1.11	-75.1	2400	28.77
1200	24.08	6.71	1581	3	1.11	-75.3	3000	28.77

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 3000
Sampling Time: 1201	Sampling Date: 10/17/12
Sample I.D.: 6MW-58	Laboratory: CALSCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See C.O.C.
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: EB	Gauging Date: 10/19/12
Well I.D.: GMMW-59	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): 53.62	Depth to Water (ft.): 28.24
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>RVC</u> Grade	Flow Cell Type: YS1556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1059 Flow Rate: 200 ML/MIN Pump Depth: 25 ^{EB} 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 (ft.)
1102	24.88	6.58	1460	7	2.75	-58.9	600	28.33
1105	24.89	6.57	1449	5	2.56	-59.6	1200	28.33
1108	24.44	6.55	1449	5	2.46	-60.5	1800	28.33
1111	24.41	6.56	1448	5	2.47	-60.0	2400	28.33
1114	24.40	6.56	1448	5	2.47	-59.4	3000	28.33

Did well dewater? Yes <u>No</u>	Amount actually evacuated: 3000
Sampling Time: 1115	Sampling Date: 10/19/12
Sample I.D.: GMMW-59	Laboratory: CALSCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: <u>EE</u> C.O.C.
Equipment Blank I.D.: @ _____	Duplicate I.D.: <u>GMMW-59 DUP</u>

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: EB	Gauging Date: 10/17/12
Well I.D.: 6MW-60	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): 39.95	Depth to Water (ft.): 30.15
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: 1410 Flow Rate: 200 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 (ft.)
1413	24.33	6.79	2726	5	1.41	-64.1	600	30.40
1416	24.08	6.81	2727	3	1.45	-63.7	1200	30.40
1419	23.98	6.81	2728	3	1.46	-65.3	1800	30.40
1422	23.98	6.80	2727	3	1.45	-63.8	2400	30.40
1425	23.90	6.80	2725	3	1.46	-63.7	3000	30.40

Did well dewater? Yes <u>No</u>	Amount actually evacuated: 3000
Sampling Time: 1426	Sampling Date: 10/17/12
Sample I.D.: 6MW-60	Laboratory: CALSCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: see E.O.C.
Equipment Blank I.D.: @ Time	Duplicate I.D.: 6MW-60 DUP

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: EB	Gauging Date: 10/19/12
Well I.D.: GMW-61	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): 39.73	Depth to Water (ft.): 29.62
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: 1005 Flow Rate: 200 mL/min Pump Depth: 30'

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 (ft.)
1008	22.80	6.83	2380	3	2.34	-105.8	600	29.70
1011	22.75	6.84	2386	3	2.45	-109.6	1200	29.70
1014	22.70	6.83	2387	4	2.49	-111.1	1800	29.70
1017	22.70	6.84	2388	3	2.50	-115.3	2400	29.70
1020	22.70	6.84	2388	4	2.49	-116.0	3000	29.70

Did well dewater? Yes <input checked="" type="checkbox"/> No	Amount actually evacuated: 3000
Sampling Time: 1021	Sampling Date: 10/19/12
Sample I.D.: GMW-61	Laboratory: CALSCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: SEE C.O.C.
Equipment Blank I.D.: @	Duplicate I.D.: GMW-61 DUP

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: EB	Gauging Date: 10/17/12
Well I.D.: GMW-63	Well Diameter (in.): 2 3 (4) 6 8
Total Well Depth (ft.): 40.11	Depth to Water (ft.): 30.81
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: 0953 Flow Rate: 200 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 (ft.)
0956	21.23	6.96	1683	4	1.53	18.0	600	30.83
0959	20.87	6.92	1680	2	1.10	19.7	1200	30.83
1002	20.76	6.92	1679	3	0.98	20.8	1800	30.83
1005	20.73	6.93	1678	2	0.99	20.5	2400	30.83
1008	20.73	6.93	1677	2	0.99	20.7	3000	30.83

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 3000
Sampling Time: 1009	Sampling Date: 10/17/12
Sample I.D.: GMW-63	Laboratory: CALSCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: SEE C.O.C.
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-ETA	Client: PARSONS
Sampler: EB	Gauging Date: 10/17/12
Well I.D.: 6MW-64	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): 39.89	Depth to Water (ft.): 29.27
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: 0910 Flow Rate: 200 mL/min Pump Depth: 35'

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 (ft.)
0913	20.08	6.97	1750	8	1.15	34.0	600	29.29
0916	19.89	6.95	1737	5	0.99	31.9	1200	29.29
0919	19.84	6.99	1745	4	0.96	29.7	1800	29.29
0922	19.83	7.00	1748	5	0.90	28.4	2400	29.29
0925	19.84	7.00	1751	4	0.91	28.2	3000	29.29
0928	19.82	7.01	1751	4	0.90	28.0	3600	29.29

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 3600
Sampling Time: 0929	Sampling Date: 10/17/12
Sample I.D.: 6MW-64	Laboratory: <u>PA SCIENCE</u>
Analyzed for: TPH-G BTEX MTBE TPH-D	<u>Other: SEE C.O.C.</u>
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015 - EBI	Client: PARSONS
Sampler: ET3	Gauging Date: 10/17/12
Well I.D.: GMW-65	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.): 40.80	Depth to Water (ft.): 30.46
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YC1556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0821 Flow Rate: 200 mL/min Pump Depth: 34'

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 (ft.)
0824	20.30	6.81	2740	34	3.13	27.4	600	30.71
0827	20.27	6.82	2750	33	2.64	26.7	1200	30.71
0830	20.27	6.82	2751	30	2.17	26.4	1800	30.71
0833	20.28	6.83	2763	31	1.65	24.7	2400	30.72
0836	20.28	6.84	2765	31	1.64	24.1	3000	30.72
0839	20.28	6.84	27.68	32	1.64	23.5	3600	30.72

Did well dewater? Yes <input checked="" type="radio"/> (No)	Amount actually evacuated: 3600
Sampling Time: 0840	Sampling Date: 10/17/12
Sample I.D.: GMW-65	Laboratory: CALSCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: SEE C.O.C.
Equipment Blank I.D.: @	Duplicate I.D.:

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TS-03@0815

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: EB	Gauging Date: 10/17/12
Well I.D.: GMW-66	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): 39.80	Depth to Water (ft.): 30.89
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YS1556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1052 Flow Rate: 200 ML/MIN Pump Depth: 34.5'

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 (ft.)
1055	23.53	6.91	1743	12	1.75	26.9	600	31.00
1058	23.34	6.89	1752	11	1.28	26.3	1200	31.00
1101	23.18	6.90	1759	8	1.11	25.6	1800	31.00
1104	23.12	6.90	1767	8	1.08	25.2	2400	31.00
1107	23.13	6.90	1769	8	1.08	25.2	3000	31.00
1110	23.11	6.90	1771	8	1.07	25.0	3600	31.00

Did well dewater? Yes <u>No</u>	Amount actually evacuated: 3600
Sampling Time: 1111	Sampling Date: 10/17/12
Sample I.D.: GMW-66	Laboratory: CALSCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: <u>SEE C.O.C.</u>
Equipment Blank I.D.: @ _____	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB	Client: PARSONS
Sampler: EB	Gauging Date: 10/19/12
Well I.D.: GW-6	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): 60.13	Depth to Water (ft.): 30.56
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: 0748 Flow Rate: 200 mL/min Pump Depth: 44'

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 (ft.)
0751	21.33	6.78	727	68	4.22	-46.9	600	30.65
0754	21.30	6.78	736	41	3.58	-60.3	1200	30.65
0757	21.29	6.78	742	26	3.41	-61.4	1800	30.65
0800	21.20	6.80	741	19	3.22	-62.3	2400	30.65
0803	21.29	6.81	739	20	3.21	-62.0	3000	30.65
0806	21.32	6.81	739	20	3.21	-61.9	3600	30.65

Did well dewater? Yes No Amount actually evacuated: 3600
 Sampling Time: 0807 Sampling Date: 10/19/12
 Sample I.D.: GW-6 Laboratory: CALSCIENCE
 Analyzed for: TPH-G BTEX MTBE TPH-D Other: SOE CO-C
 Equipment Blank I.D.: @ _____ Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: EB	Gauging Date: 10/16/12
Well I.D.: MW-13	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): 51.86	Depth to Water (ft.): 32.28
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YS1556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1334 Flow Rate: 700 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 (ft.)
1337	23.54	6.88	1691	1	0.79	19.5	600	32.28
1340	23.65	6.89	1691	0	0.78	18.6	1200	32.28
1343	23.67	6.89	1695	0	0.75	17.2	1800	32.28
1346	23.60	6.89	1698	0	0.75	18.7	2400	32.28
1349	23.59	6.89	1698	0	0.74	18.6	3000	32.28

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 3000
Sampling Time: 1350	Sampling Date: 10/16/12
Sample I.D.: MW-13	Laboratory: CALSCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: SEE C.O.C.
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: ETS	Gauging Date: 10/18/12
Well I.D.: MW-14	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): 51.85	Depth to Water (ft.): 32.70
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: YSI 56

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1417 Flow Rate: 200 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 (ft.)
1420	24.03	6.68	2246	3	1.95	-81.0	600	32.77
1423	23.48	6.70	2289	2	1.77	-81.3	1200	32.77
1426	23.28	6.70	2302	2	1.78	-81.0	1800	32.77
1429	23.33	6.70	2298	2	1.78	-80.2	2400	32.77
1432	23.27	6.71	2298	2	1.77	-80.0	3000	32.77

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 3000
Sampling Time: 1433	Sampling Date: 10/18/12
Sample I.D.: MW-14	Laboratory: CALSCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: SEE C.D.C.
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: ET3	Gauging Date: 10/16/12
Well I.D.: MW-16	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.): 50.76	Depth to Water (ft.): 30.74
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVE</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: 0818 Flow Rate: 200 mL/min Pump Depth: 42

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 (ft.)
0821	22.74	6.67	1212	9	1.32	9.4	600	30.74
0824	23.16	6.67	1200	7	0.92	1.2	1200	30.74
0827	23.16	6.67	1189	6	0.93	0.4	1800	30.74
0830	23.17	6.67	1188	6	0.93	0.5	2400	30.74
0833	23.18	6.67	1189	6	0.94	0.5	3000	30.74

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 3000
Sampling Time: 0834	Sampling Date: 10/16/12
Sample I.D.: MW-16	Laboratory: CALSCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: SEE C.O.C.
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: EB	Gauging Date: 10/16/12
Well I.D.: MW-17	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.): 49.17	Depth to Water (ft.): 31.78
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: Y51 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other
 Start Purge Time: 0740 Flow Rate: 200 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 (ft.)
0743	21.85	7.13	1723	9	1.53	35.4	600	31.78
0746	21.85	7.14	1765	8	1.53	35.8	1200	31.78
0749	21.84	7.14	1762	8	1.54	35.3	1800	31.78
0752	21.85	7.15	1772	9	1.53	34.7	2400	31.78
0755	21.84	7.15	1775	9	1.53	34.3	3000	31.78

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 3000
Sampling Time: 0756	Sampling Date: 10/16/12
Sample I.D.: MW-17	Laboratory: ALS SCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: SEE C.O.C.
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: EB	Gauging Date: 10/18/12
Well I.D.: MW-22 (MID)	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.): 57.67	Depth to Water (ft.): 35.01
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVE</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: 1344 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 (ft.)
1347	24.14	6.98	1941	2	1.53	-80.1	600	35.32
1350	24.06	6.99	1940	1	1.43	-83.2	1200	35.32
1353	23.92	6.99	1934	1	1.18	-83.5	1800	35.32
1356	23.56	7.00	1945	1	1.18	-87.7	2400	35.32
1359	23.52	7.00	1945	1	1.19	-86.4	3000	35.32
1402	23.48	6.99	1950	1	1.19	-88.3	3600	35.32

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 3600
Sampling Time: 1403	Sampling Date: 10/18/12
Sample I.D.: MW-22 (MID)	Laboratory: CALSCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See C.O.C.
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: EB	Gauging Date: 10/19/12
Well I.D.: MW-23 (MID)	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): 52.00	Depth to Water (ft.): 33.84
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: 0918 Flow Rate: 200 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 (ft.)
0921	22.87	7.00	1125	3	3.01	-86.3	600	33.84
0924	22.81	7.00	1150	1	2.82	-88.1	1200	33.84
0927	22.63	6.96	1231	1	2.38	-96.5	1800	33.84
0930	22.62	6.97	1245	1	2.39	-93.5	2400	33.84
0933	22.62	6.97	1249	0	2.40	-93.9	3000	33.84
0936	22.61	6.97	1253	0	2.40	-94.4	3600	33.84

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 3600
Sampling Time: 0939	Sampling Date: 10/19/12
Sample I.D.: MW-23 (MID)	Laboratory: CALSCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: <u>SEE C.O.C.</u>
Equipment Blank I.D.: @ _____	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: ETJ	Gauging Date: 10/16/12
Well I.D.: MW-24	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): 47.15	Depth to Water (ft.): 32.73
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: 1300 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 (ft.)
1303	24.46	6.92	1361	7	1.41	-12.5	600	32.84
1306	23.99	6.89	1353	5	0.96	-11.1	1200	32.84
1309	23.94	6.89	1347	5	0.93	-11.7	1800	32.84
1312	23.91	6.90	1348	5	0.82	-12.0	2400	32.84
1315	23.85	6.90	1348	4	0.81	-12.1	3000	32.84
1318	23.82	6.90	1349	4	0.81	-12.4	3600	32.84

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 3600
Sampling Time: 1319	Sampling Date: 10/16/12
Sample I.D.: MW-24	Laboratory: CALSCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: SEE C.O.C.
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: EB	Gauging Date: 10/16/12
Well I.D.: MW-25	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): 47.16	Depth to Water (ft.): 33.20
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
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1049 Flow Rate: 200 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 (ft.)
1052	23.89	6.99	2415	3	3.60	214	600	33.43
1055	23.45	6.96	2406	2	3.52	23.3	1200	33.43
1058	23.40	6.96	2408	2	3.52	23.4	1800	33.43
1101	23.39	6.97	2402	1	3.53	23.7	2400	33.43
1104	23.36	6.97	2400	1	3.53	23.8	3000	33.43

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 3000
Sampling Time: 1105	Sampling Date: 10/16/12
Sample I.D.: MW-25	Laboratory: CALSCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: <u>SEE C.O.C.</u>
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: EB	Gauging Date: 10/16/12
Well I.D.: MW-26	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.): 47.25	Depth to Water (ft.): 31.49
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
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1136 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 (ft.)
1139	22.93	6.67	1815	5	0.88	-83.9	600	31.56
1142	22.53	6.64	1830	2	0.78	-85.6	1200	31.56
1145	22.27	6.62	1841	2	0.78	-88.8	1800	31.56
1148	22.22	6.62	1841	1	0.79	-86.5	2400	31.56
1151	22.21	6.62	1840	1	0.79	-87.4	3000	31.56

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: 3000
Sampling Time: 1152	Sampling Date: 10/16/12
Sample I.D.: MW-26	Laboratory: CALSCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: SEE C.O.C.
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: ET3	Gauging Date: 10/16/12
Well I.D.: MW-27	Well Diameter (in.): 2 3 ④ 6 8
Total Well Depth (ft.): 52.29	Depth to Water (ft.): 32.46
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: 1211 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 (ft.)
1214	24.26	6.60	2075	2	0.94	-81.7	600	32.62
1217	23.88	6.59	2096	2	0.83	-85.1	1200	32.62
1220	23.61	6.59	2095	2	0.85	-83.0	1800	32.62
1223	23.67	6.59	2098	1	0.86	-83.1	2400	32.62
1226	23.65	6.59	2101	1	0.86	-82.3	3000	32.62

Did well dewater? Yes <input checked="" type="radio"/> No <input type="radio"/>	Amount actually evacuated: 3000
Sampling Time: 1227	Sampling Date: 10/16/12
Sample I.D.: MW-27	Laboratory: CALSCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: SEE C.O.C.
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: EB	Gauging Date: 10/19/12
Well I.D.: PZ-3	Well Diameter (in.): (2) 3 4 6 8
Total Well Depth (ft.): 56.55	Depth to Water (ft.): 31.82
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVO) Grade	Flow Cell Type: YS156

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0834 Flow Rate: 200 mL/min Pump Depth: 44'

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 (ft.)
0837	23.30	6.68	1294	39	2.91	-58.6	600	31.93
0840	23.23	6.68	1281	21	2.65	-60.1	1200	31.93
0843	23.27	6.67	1276	22	2.86	-59.4	1800	31.93
0846	23.29	6.67	1270	22	2.85	-59.3	2400	31.93
0849	23.30	6.67	1270	23	2.86	-59.4	3000	31.93

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 3000
Sampling Time: 0850	Sampling Date: 10/19/12
Sample I.D.: PZ-3	Laboratory: PALSCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: SEE C.O.C.
Equipment Blank I.D.: @ _____	Duplicate I.D.: PZ-3 DUP

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: EB	Gauging Date: 10/18/12
Well ID.: WCW-2	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): 52.29	Depth to Water (ft.): 28.73
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: 0853 Flow Rate: 200 mL/MIN Pump Depth: 40.5'

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 (ft.)
0856	22.75	7.15	2461	8	2.19	15.1	600	28.88
0859	22.83	7.15	2455	5	1.98	13.6	1200	28.88
0902	22.95	7.14	2452	5	1.98	12.1	1800	28.88
0905	23.03	7.14	2450	4	1.97	11.9	2400	28.88
0908	23.04	7.14	2450	4	1.97	12.0	3000	28.88

Did well dewater? Yes <u>(No)</u>	Amount actually evacuated: 3000
Sampling Time: 0909	Sampling Date: 10/18/12
Sample I.D.: WCW-2	Laboratory: CALSCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	<u>Other</u> SEE C.O.C.
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: EB	Gauging Date: 10/18/12
Well I.D.: WCW-4	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): 51.67	Depth to Water (ft.): 32.18
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVO</u> Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grandfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0934 Flow Rate: 300 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 (ft.)
0937	22.94	6.75	3642	39	2.14	-6.9	600	32.24
0940	22.88	6.75	3644	38	1.84	-6.8	1200	32.26
0943	22.92	6.76	3642	36	1.76	-6.1	1800	32.26
0946	22.95	6.76	3643	35	1.77	-6.4	2400	32.26
0949	22.96	6.76	3643	35	1.77	-6.0	3000	32.26

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 3000
Sampling Time: 0950	Sampling Date: 10/18/12
Sample I.D.: WCW-4	Laboratory: PAISCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: SEE C.O.C.
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: EB	Gauging Date: 10/18/12
Well I.D.: WCW-5	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): 50.20	Depth to Water (ft.): 26.37
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>RVO</u> Grade	Flow Cell Type: <u>YSI 536</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1312 Flow Rate: 200 mL/min Pump Depth: 38.5'

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 (ft.)
1315	24.55	6.90	2551	27	3.04	22.0	600	26.40
1318	24.49	6.89	2548	19	3.12	22.1	1200	26.40
1321	24.44	6.89	2543	19	3.00	21.4	1800	26.40
1324	24.46	6.89	2545	17	2.98	21.5	2400	26.40
1327	24.45	6.89	2544	17	2.98	22.0	3000	26.40
1330	24.45	6.89	2543	16	2.97	21.8	3600	26.40

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 3600
Sampling Time: 1331	Sampling Date: 10/18/12
Sample I.D.: WCW-5	Laboratory: CALSCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	<u>Other</u> SE C.O.C.
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: EB	Gauging Date: 10/18/12
Well I.D.: NCW-6	Well Diameter (in.): 2 3 ④ 6 8
Total Well Depth (ft.): 50.80	Depth to Water (ft.): 29.09
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>RVC</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: 1145 Flow Rate: 200 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 (ft.)
1148	23.11	6.44	3733	104	2.22	-1.0	600	29.09
1151	23.08	6.44	3729	92	2.22	-1.3	1200	29.09
1154	22.92	6.44	3736	77	2.25	-1.0	1800	29.09
1157	22.73	6.43	3732	78	2.25	-0.9	2400	29.09
1200	22.74	6.44	3726	77	2.24	-0.8	3000	29.09
1203	22.73	6.44	3727	77	2.25	-0.9	3600	29.09

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 3600
Sampling Time: 1204	Sampling Date: 10/18/12
Sample I.D.: NCW-6	Laboratory: CALSCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: <u>SEE C.O.C.</u>
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: EB3	Gauging Date: 10/18/12
Well I.D.: WCW-8	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): 51.52	Depth to Water (ft.): ^{EB} 51.52 31.59
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>Ave</u> Grade	Flow Cell Type: 951556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1058 Flow Rate: 200 ml/min Pump Depth: 41.5'

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 (ft.)
1101	23.18	6.84	3088	13	2.24	-74.4	600	31.62
1104	23.00	6.84	3103	14	1.73	-76.7	1200	31.63
1107	22.92	6.84	3105	15	1.64	-75.5	1800	31.63
1110	22.97	6.84	3108	15	1.64	-75.2	2400	31.63
1113	23.03	6.84	3106	14	1.65	-73.2	3000	31.63

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 3000
Sampling Time: 1114	Sampling Date: 10/18/12
Sample I.D.: WCW-8	Laboratory: CALSCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: <u>SE C.O.C</u>
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>17015-EB1</u>	Client: <u>PARSONS</u>
Sampler: <u>EB</u>	Gauging Date: <u>10/18/12</u>
Well I.D.: <u>WCW-12</u>	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): <u>59.93</u>	Depth to Water (ft.): <u>29.56</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVS</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: 0813 Flow Rate: 200 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 (ft.)
0816	22.79	6.83	2139	21	2.86	22.4	600	29.72
0819	22.48	6.86	2133	12	2.31	21.0	1200	29.72
0822	22.41	6.86	2139	11	2.32	20.3	1800	29.74
0825	22.42	6.86	2135	10	2.20	19.7	2400	29.74
0828	22.41	6.86	2135	10	2.19	18.9	3000	29.76
0831	22.38	6.86	2134	9	2.19	18.7	3600	29.78

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>3600</u>
Sampling Time: <u>0832</u>	Sampling Date: <u>10/18/12</u>
Sample I.D.: <u>WCW-12</u>	Laboratory: <u>CALSCIENCE</u>
Analyzed for: TPH-G BTEX MTBE TPH-D <u>Other SEE C.O.C.</u>	
Equipment Blank I.D.: @ Time Duplicate I.D.:	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: EB	Gauging Date: 10/18/12
Well I.D.: W CW-14	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): 58.74	Depth to Water (ft.): 32.53
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: 10/7 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 (ft.)
1020	22.70	7.05	2118	8	2.18	18.4	600	32.58
1023	22.48	7.01	2106	7	1.64	18.5	1200	32.58
1026	22.43	7.01	2093	3	1.63	18.1	1800	32.58
1029	22.40	7.01	2092	3	1.50	17.4	2400	32.58
1032	22.40	7.01	2090	3	1.51	17.2	3000	32.58
1035	22.38	7.01	2091	2	1.50	17.1	3600	32.58

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 3600
Sampling Time: 1036	Sampling Date: 10/18/12
Sample I.D.: W CW-14	Laboratory: CALSCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: SEE C.O.C.
Equipment Blank I.D.: @	Duplicate I.D.:

BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT					
VOC's (including BTEX, MTBE, TBA, EPA 8260)	TPH as JP5 (8015)	TPHg (8015)			
X	X	X			
X	X	X			
X	X	X			
X	X				
X	X				
X	X				
X	X				
X	X				
X					

LAB: Calscience PM: Ranjit Clark
 MUST MEET SPECIFICATIONS
 EPA RWQCB REGION
 LIA
 OTHER

CHAIN OF CUSTODY

CLIENT: **Parsons**

SITE: **Norwalk GWM**

SPECIAL INSTRUCTIONS

Invoice and Report to:
 Parsons - Mary Lucas (mary.lucas@parsons.com)
 100 W Walnut St., Pasadena, CA 91124 (626) 440-6032
 Project # 746442

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS		VOC's (including BTEX, MTBE, TBA, EPA 8260)	TPH as JP5 (8015)	TPHg (8015)					ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
			W = H2O	TOTAL												
XP-1	10/15/12	0855	W	7	V0A/AMBER	X	X	X								
XP-2	10/15/12	0951	W	7	V0A/AMBER	X	X	X								
XP-3	10/15/12	1045	W	7	V0A/AMBER	X	X	X								
MW-6	10/15/12	1138	W	4	V0A/AMBER	X	X									
MW-12	10/15/12	1227	W	4	V0A/AMBER	X	X									
MW-15	10/15/12	1312	W	4	V0A/AMBER	X	X									
MW-16	10/15/12	1353	W	4	V0A/AMBER	X	X									
MW-19	10/15/12	1457	W	4	V0A/AMBER	X	X									
TR-01	10/15/12	0830	W	3	V0A	X										

SAMPLING COMPLETED: 10/15/12 1451
 SAMPLING PERFORMED BY: EDUARDO BUDANO
 RESULTS NEEDED NO LATER THAN: Standard

RELEASED BY: [Signature] DATE: 10/15/12 TIME: 1605
 RECEIVED BY: Nicole (SC) DATE: 10/15/12 TIME: 1605

RELEASED BY: Nicole (SC) DATE: 10-15-12 TIME: 17:18
 RECEIVED BY: [Signature] DATE: 10/15/12 TIME: 17:08

SHIPPED VIA: _____ DATE SENT: _____ 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: Calscience PM: Ranjit Clark
 DHS #
 MUST MEET SPECIFICATIONS
 EPA
 LIA
 OTHER
 RWQCB REGION

CHAIN OF CUSTODY

CLIENT: Parsons

SITE: Norwalk GWM

SPECIAL INSTRUCTIONS

Invoice and Report to:
 Parsons - Mary Lucas (mary.lucas@parsons.com)
 100 W Walnut St., Pasadena, CA 91124 (626) 440-6032
 Project # 746442

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS		VOC's (including BTEX, MTBE, TBA, EPA 8260)	TPH as JP5 (8015)	TPHg (8015)							ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
			W = H2O	TOTAL														
MW-17	10/16/12	0756	W	4	VOA/AMBER	X	X											
MW-16	10/16/12	0834	W	4	VOA/AMBER	X	X											
GMW-44	10/16/12	0902	W	4	VOA/AMBER	X	X											
GMW-43	10/16/12	0929	W	4	VOA/AMBER	X	X											
GMW-31	10/16/12	1000	W	4	VOA/AMBER	X	X											
GMW-41	10/16/12	1034	W	4	VOA/AMBER	X	X											
MW-25	10/16/12	1105	W	4	VOA/AMBER	X	X											
MW-26	10/16/12	1152	W	4	VOA/AMBER	X	X											
MW-27	10/16/12	1227	W	4	VOA/AMBER	X	X											
MW-24	10/16/12	1319	W	4	VOA/AMBER	X	X											

SAMPLING COMPLETED: 10/16/12 1428
 SAMPLING PERFORMED BY: EDUARDO BUSTARD
 RESULTS NEEDED NO LATER THAN: Standard

RELEASED BY: [Signature] DATE: 10/16/12 TIME: 1550 RECEIVED BY: Nicole (SC) DATE: 10/16/12 TIME: 1550

RELEASED BY: Nicole (SC) DATE: 10/17/12 TIME: 1030 RECEIVED BY: [Signature] DATE: 10/17/12 TIME: 1030

RELEASED BY: [Signature] DATE: [Blank] TIME: [Blank] RECEIVED BY: [Signature] DATE: [Blank] TIME: [Blank]

SHIPPED VIA: [Blank] DATE SENT: [Blank] TIME SENT: [Blank] COOLER #: [Blank]

BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

DHS #

CONDUCT ANALYSIS TO DETECT

LAB: Calscience PM: Ranjit Clark

MUST MEET SPECIFICATIONS

- EPA
 LIA
 OTHER
- RWQCB REGION

SPECIAL INSTRUCTIONS

Invoice and Report to:

Parsons - Mary Lucas (mary.lucas@parsons.com)

100 W Walnut St., Pasadena, CA 91124 (626) 440-6032

Project # 746442

ADD'L INFORMATION STATUS CONDITION LAB SAMPLE #

CHAIN OF CUSTODY

CLIENT: **Parsons**

SITE: **Norwalk GWM**

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS		VOC's (including BTEX, MTBE, TBA, EPA 8260)	TPH as JP5 (8015)	TPHg (8015)						
			W = H2O	TOTAL										
GMW-65	10/17/12	0840	W	4	VOA/AMBER	X	X							
GMW-64	10/17/12	0929	W	4	VOA/AMBER	X	X							
GMW-63	10/17/12	1009	W	4	VOA/AMBER	X	X							
GMW-66	10/17/12	1111	W	4	VOA/AMBER	X	X							
GMW-58	10/17/12	1201	W	4	VOA/AMBER	X	X							
GMW-45	10/17/12	1259	W	4	VOA/AMBER	X	X							
GMW-47	10/17/12	1346	W	4	VOA/AMBER	X	X							
GMW-60	10/17/12	1426	W	7	VOA/AMBER	X	X	X						
TB-03	10/17/12	0815	W	3	VOA	X								
GMW-60008	10/17/12		W	4	VOA/AMBER	X	X							

RESULTS NEEDED NO LATER THAN **Standard**

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	EDUARDO BUDANO	RESULTS NEEDED NO LATER THAN	Standard
RELEASED BY	DATE	TIME	RECEIVED BY	Nicole (sc)	DATE	TIME
	10/17/12	1326			10/17/12	1550
RELEASED BY	DATE	TIME	RECEIVED BY	CEL	DATE	TIME
Nicole (sc)	10/17/12	1710			10/17/12	1710
RELEASED BY	DATE	TIME	RECEIVED BY		DATE	TIME

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #
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BLAINE

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 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

DHS #

CHAIN OF CUSTODY

CLIENT: **Parsons**

SITE: **Norwalk GWM**

CONDUCT ANALYSIS TO DETECT

LAB: Calscience PM: Ranjit Clark

MUST MEET SPECIFICATIONS

EPA RWQCB REGION

LIA

OTHER

SPECIAL INSTRUCTIONS

Invoice and Report to:

Parsons - Mary Lucas (mary.lucas@parsons.com)

100 W Walnut St., Pasadena, CA 91124 (626) 440-6032

Project # 746442

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS		VOC's (including BTEX, MTBE, TBA, EPA 8260)	TPH as JP5 (8015)	TPHg (8015)				ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
			W = H2O	TOTAL											
WCW-12	10/18/12	0832	W	4	4	X	X								
WCW-2	10/18/12	0909	W	4	4	X	X								
WCW-4	10/18/12	0950	W	4	4	X	X								
WCW-14	10/18/12	1036	W	4	4	X	X								
WCW-8	10/18/12	1114	W	4	4	X	X								
WCW-6	10/18/12	1204	W	4	4	X	X								
WCW-5	10/18/12	1331	W	4	4	X	X								
MW-22 (mid)	10/18/12	1403	W	4	4	X	X								
MW-14	10/18/12	1433	W	4	4	X	X								
TB-04	10/18/12	0800	W	3	3	X									

SAMPLING COMPLETED: DATE 10/18/12 TIME 1433

SAMPLING PERFORMED BY: **EDUARDO BUDANO**

RESULTS NEEDED NO LATER THAN: **Standard**

RELEASED BY: *[Signature]* DATE 10/18/12 TIME 1548 RECEIVED BY: **Nicole (sc)** DATE 10/18/12 TIME 1548

RELEASED BY: **Nicole (sc)** DATE 10/18/12 TIME 1510 RECEIVED BY: *[Signature]* DATE 10/18/12 TIME 1510

RELEASED BY: DATE TIME RECEIVED BY: DATE TIME

SHIPPED VIA: DATE SENT 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: Calscience PM: Ranjit Clark

DHS #

MUST MEET SPECIFICATIONS

- EPA
- LIA
- OTHER

RWQCB REGION

SPECIAL INSTRUCTIONS

Invoice and Report to:

Parsons - Mary Lucas (mary.lucas@parsons.com)

100 W Walnut St., Pasadena, CA 91124 (626) 440-6032

Project # 746442

CHAIN OF CUSTODY

CLIENT: **Parsons**

SITE: **Norwalk GWM**

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS		VOC's (including BTEX, MTBE, TBA, EPA 8260)	TPH as JP5 (8015)	TPHg (8015)					ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
			W = H2O	TOTAL												
GMW-6	10/19/12	0807	W	4	VDA/AMBER	X	X									
PZ-3	10/19/12	0850	W	4	VDA/AMBER	X	X									
PZ-3 DUP	10/19/12	/	W	4	VDA/AMBER	X	X									
GMW-23(M)	10/19/12	0939	W	4	VDA/AMBER	X	X									
GMW-61	10/19/12	1021	W	7	VDA/AMBER	X	X	X								
GMW-61 DUP	10/19/12	/	W	4	VDA/AMBER	X	X									
GMW-59	10/19/12	1115	W	7	VDA/AMBER	X	X	X								
GMW-59 DUP	10/19/12	/	W	4	VDA/AMBER	X	X									
TB-05	10/19/12	0740	W	3	VDA	X										
GMW-32	10/19/12	1224	W	4	VDA/AMBER	X	X									

SAMPLING COMPLETED: DATE 10/19/12 TIME 1115
 SAMPLING PERFORMED BY: EDUARDO BUDANO
 RESULTS NEEDED NO LATER THAN: Standard

RELEASED BY: [Signature] DATE 10/19/12 TIME 1705 RECEIVED BY: Nicole (sc) DATE 10/19/12 TIME 1705

RELEASED BY: Nicole (sc) DATE 10/19/12 TIME 1708 RECEIVED BY: [Signature] DATE 10/19/12 TIME 1708

RELEASED BY: DATE TIME RECEIVED BY: DATE TIME

SHIPPED VIA: DATE SENT TIME SENT COOLER #

WELLHEAD INSPECTION CHECKLIST

Page 1 of 3

Client PARSONS Date 10/15/12

Site Address PARSONS @ NORWALK

Job Number 121015-EB1 Technician EB3

Well ID	Well Inspected - No Corrective Action Required	WELL IS SECURABLE BY DESIGN (12" or less)	WELL IS CLEARLY MARKED WITH THE WORDS "MONITORING WELL" (12" or less)	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
EXP-1	✓									
EXP-2	✓									
EXP-3	✓									
GIMW-6	✓									
GIMW-12		✓	✓							✓
GIMW-15		✓	✓							✓
GIMW-16		✓	✓							✓
GIMW-17	- UNABLE TO ACCESS / BEEHIVE IN WELL									
GIMW-19		✓	✓							✓
MW-17	✓									
MW-16	✓									
GIMW-44	✓	✓	✓							
GIMW-43	✓	✓	✓							✓
GIMW-31										✓
GIMW-41	✓	✓	✓							
MW-25	✓									
MW-26	✓									

NOTES: ^{GIMW-6} GIMW-12 $\frac{1}{2}$ TABS STRIPPED, $\frac{1}{2}$ BOLTS MISSING, ^{GIMW-15} GIMW-15 $\frac{2}{2}$ BOLTS MISSING, ^{GIMW-16} GIMW-16 $\frac{2}{2}$ BOLTS MISSING, ^{GIMW-18} GIMW-18 $\frac{1}{4}$ BOLTS MISSING, ^{GIMW-31} GIMW-31 $\frac{2}{2}$ BOLTS MISSING, ^{WELL BOX CRACKED}

WELLHEAD INSPECTION CHECKLIST

Client PARSONS Date 10/18/12

Site Address PARSONS CAMPORWAKE

Job Number 121015-EB1 Technician EB3

Well ID	Well Inspected - No Corrective Action Required	WELL IS SECURABLE BY DESIGN (12" or less)	WELL IS CLEARLY MARKED WITH THE WORDS "MONITORING WELL" (12" or less)	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
MW-27	✓									
MW-24	✓									
MW-13	✓									
GMW-57	✓	✓	✓							
GMW-62	✓	✓	✓							
GMW-65	✓	✓	✓							
GMW-64	✓	✓	✓							
GMW-63	✓	✓	✓							
GMW-66	✓	✓	✓							
GMW-58	✓									
GMW-45										✓
GMW-47										✓
GMW-60	✓	✓	✓							
WCW-12	✓	✓	✓							
WCW-2	✓	✓	✓							
WCW-4	✓	✓	✓							
WCW-14	✓	✓	✓							

NOTES: GMW-45 WELLBOX CRUSHED, GMW-47 2 BOLTS MISSING

NORWALK WELL GAUGING DATA

 TECHNICIAN: Matt Esterle

 DATE: 10-15-12

 CLIENT: KMIEP

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Historical SPH	Depth to water (ft.) 1Q12	Depth to water (ft.) 2Q12	Depth to water (ft.) 3Q12	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or C&C	Time
BW-1	4					-	26.20	-	25.26	51.71		1012
BW-2	4					-	26.29	-	25.58	47.63		0942
BW-3	4					-	27.37	-	26.19	48.53		1110
BW-4	4					-	27.52	-	26.93	43.49		1307
BW-5	4					-	26.57	-	26.11	45.98		1331
BW-6	4					-	26.73	-	26.00	46.14		1341
BW-7	4					-	27.71	-	27.15	45.51		1350
BW-8	4					-	28.08	-	29.61	47.72		1414
BW-9	4					-	29.40	-	29.22	49.31		1352
EXP-1	4					52.67	52.29	52.69	53.63	128.63		0830
EXP-2	4					52.98	52.63	53.08	53.96	128.53		0927
EXP-3	4					51.67	51.34	51.87	52.80	123.62		1020
EXP-4	4					-	52.49	-	53.74	115.02		0656
EXP-5	4					46.53	46.21	46.88	47.78	113.11		0720
GMW-1	4					26.68	28.03	29.14	29.49	49.45		1112
GMW-10	4		29.02	0.13		-	unable to access	-	29.15	-		1314
GMW-11	4		30.01	0.20		-	26.03	-	27.05	49.71		1155
GMW-13	4					-	27.09	-	27.89	49.65		1114
GMW-14	4					-	27.98	-	28.91	49.70		1211
GMW-2						-	unable to access	-	Unable to locate			
GMW-22	4	odor				-	31.15	-	31.05	62.34		1447
GMW-23	4	odor				-	28.73	-	28.45	57.88		1230
GMW-24	4					-	30.49	-	31.34	39.90		1248
GMW-25	4					-	31.30	-	31.88	53.30		1331
GMW-26	4					-	27.86	-	28.40	45.51		1013
GMW-27	4					26.84	27.85	27.94	29.05	48.92		1047
GMW-28	4					-	28.32	-	28.50	49.24		0925

NORWALK WELL GAUGING DATA

TECHNICIAN: Matt Eiterle DATE: 10-15-12 CLIENT: _____

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Historical SPH	Depth to water (ft.) 1Q12	Depth to water (ft.) 2Q12	Depth to water (ft.) 3Q12	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOB	Time
GMW-29	4					-	28.14	-	28.41	42.64		0930
GMW-3						-	27.93	-	Unable to locate			
GMW-30	6	odor				27.12	29.09	28.43	28.40	49.75		1245
GMW-36	4	Odor				27.26	27.34	33.71	32.11	Pump in well		1203
GMW-37	4					29.72	30.10	30.86	30.90	53.49		1049
GMW-38	4					27.90	28.32	28.97	29.75	53.02		1056
GMW-39	4					28.44	28.04	28.62	29.58	50.50		1110
GMW-4	4	odor	29.65	0.15		-	28.68	-	29.80	-		1232 35
GMW-8						-	unable to access	-	Unable to locate			
GMW-9	5					29.31	31.15	31.64	31.82 31.82	49.18		1300
GMW-O-1	4					23.35	23.86	24.19	24.33	49.04		0910
GMW-O-10	4					26.82	26.90	27.81	28.40	50.00		1045
GMW-O-11	4					-	pump	-	28.12 Pump	Ext Pump		1247
GMW-O-12	4	Odor	25.44 26.04	0.03 0.02		25.12	25.40	26.96	25.48	-		1505
GMW-O-14	4	Odor				26.14	26.94	27.51	27.96	49.72		1520
GMW-O-15	4	Odor				27.67	26.56	25.47	31.82	Pump		1545
GMW-O-16	4					26.98	26.62	27.12	27.38	48.69		1137
GMW-O-17	4					25.32	26.10	26.42	26.62	39.50		0727
GMW-O-18	4	Odor				Extraction Pump	27.10	29.51	29.73	Ext. Pump		1513
GMW-O-19	4					26.56	26.88	27.27	27.46	40.02		1133
GMW-O-2	4					24.50	24.82	25.21	25.50	49.25		0801
GMW-O-20	4	Odor	32.94 32.00	0.03 0.02		24.68	26.18	32.92	32.97	30.45		1320
GMW-O-21	4					-	pump	-	32.50 Pump	Ext Pump		1400
GMW-O-23	4					25.91	27.38	27.41	26.48	45.21		1430
GMW-O-24	4								27.90	45.21		0950
GMW-O-3	4					24.29	24.72	25.29	25.33	47.88		0828
GMW-O-4	4					-	24.45	-	25.14	49.51		0848

NORWALK WELL GAUGING DATA

 TECHNICIAN: Matt Eiterle

 DATE: 10-15-12

 CLIENT: KMEP

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Historical SPH	Depth to water (ft.) 1Q12	Depth to water (ft.) 2Q12	Depth to water (ft.) 3Q12	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOE	Time
GMW-O-4 (MID)	4					-	31.35	-	32.25	61.49		0831
GMW-O-5	4					-	25.00	-	25.68	48.92		0901
GMW-O-6	4					-	23.18	-	23.41	49.73		0836
GMW-O-7	4					-	22.40	-	22.83	49.68		0842
GMW-O-8	4					-	22.54	-	22.87	49.48		0823
GMW-O-9	4					26.02	26.13	26.91	26.74	50.03		1145
GMW-SF-10	4					-	28.81	-	29.88	47.05		1011
GMW-SF-7	4					-	28.12	-	28.93	43.22		1058
GMW-SF-8	4					28.92	29.34	30.09	30.21	43.74		1042
GMW-SF-9	4					25.98	26.99	-	34.21	Pump		1500
GWR-1	4					-	27.53	-	29.21 30.19	44.83 40.51		1515
GWR-3	6	odor				-	29.56	-	31.21	50.80		1242
HL-2	4					29.10	29.50	30.22	30.22	39.00		1023
HL-3	4					-	29.83	-	30.64	41.64		1234
MW-12	4					-	29.10	-	30.31	52.00		0745
MW-15	4		31.36	1.02	Yes	-	unable to access	-	32.38			0800
MW-18 (MID)	4					-	31.75	-	33.41	65.53 47.46		1259
MW-19 (MID)	4					-	33.42	-	34.29	62.03		1251
MW-20 (MID)	4					-	32.20	-	33.05	56.53		1318
MW-21 (MID)	4					-	30.54	-	31.23	62.11		1225
MW-6	4					-	30.10	-	30.91	51.95		1324
MW-7	4					-	31.04	-	31.81	53.57		1244
MW-8	4					28.31	28.77	29.63	29.48	51.83		1425
MW-9	4	odor				-	30.22	-	31.30	51.88		1605
MW-O-1	4					-	27.25	-	28.94	32.70		1515
MW-O-2	6					28.13	pump	26.53	26.89	Pump in well		1402
MW-SF-1	6	odor				31.25	32.59	31.24	32.23	50.51		1400

NORWALK WELL GAUGING DATA

 TECHNICIAN: Natt Eiferle

 DATE: 10-15-12

 CLIENT: KMEP

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Historical SPH	Depth to water (ft.) 1Q12	Depth to water (ft.) 2Q12	Depth to water (ft.) 3Q12	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOS	Time
MW-SF-10	4		FR	EL	Yes	-	28.81	-	29.27	Ext		1350
MW-SF-11	4					-	pump	-	33.28	43.53		1401
MW-SF-12	4					-	31.40	-	32.12	Ext 1 Pump		1237
MW-SF-13	4					-	27.19	-	27.01	39.34		1411
MW-SF-14	4					-	pump	-	No Pump	30.02 Ext. Pump		1315
MW-SF-15	4	odor				-	32.48	-	33.15	Pump		1300
MW-SF-16	4					-	pump	-	32.97	Ext Pump		1510
MW-SF-2	4					30.52	31.28	33.18	32.11	44.00		1310
MW-SF-3	4					-	pump	-	32.47	Ext Pump		
MW-SF-4	4					32.07	33.35	32.11	34.04	44.06		1415
MW-SF-5	6					32.12	33.30	34.45	33.28	51.21		1230
MW-SF-6	6					29.03	29.66	31.46	31.44	41.48		1337
MW-SF-9	4					-	25.92	26.44	Unable to Access			
PW-1	4					-	dry	-	27.76	27.84		1449
PW-2	4					-	dry	-	dry	26.00		0935
PW-3	4					-	26.55	-	27.04	50.13		1017
PZ-2	4					27.21	unable to access	28.16	27.76	48.89	Has	1104
PZ-5	4	Odor				26.47	26.59	27.26	28.25	37.50		1517
PZ-6	-					-	unable to access	-	Unable to locate			
PZ-7A	2								27.24	31.33		1432
PZ-7B	2								27.22	44.81		1429
PZ-8A	2								30.01	33.32		1339
PZ-8B	2								30.71	47.00		1346
PZ-9A	2					-	28.95	-	30.18	54.31		1352
PZ-9B	2					-	29.10	-	30.54	49.46		1357
PZ-10	2								29.81	37.88		1358
VEW-1	4					-	dry	-	dry	29.08		1330

NORWALK WELL GAUGING DATA

TECHNICIAN: Matt Eferle

DATE: 10-15-12

CLIENT:

KMEP

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Historical SPH	Depth to water (ft.) 1Q12	Depth to water (ft.) 2Q12	Depth to water (ft.) 3Q12	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Time
VEW-2	4					-	dry	-	dry	29.70	 	1347
WCW-13	4					30.24	30.81	31.05	31.38	60.37		0740
WCW-3	4					29.00	29.35	29.64	29.98	50.57		0739
WCW-7	4					29.35	29.17	28.34	30.41	51.59		1449

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: EB	Gauging Date: 10/15/12
Well I.D.: EXP-1	Well Diameter (in.): 2 3 ④ 6 8
Total Well Depth (ft.): 128.63	Depth to Water (ft.): 53.63
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: 0836 Flow Rate: 200 ML/MIN Pump Depth: 97'

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 (ft.)
0839	22.94	7.18	1068	4	0.79	-64.4	600	53.64
0842	22.94	7.17	1072	1	0.67	-58.8	1200	53.64
0845	22.95	7.17	1072	1	0.66	-58.6	1800	53.64
0848	22.98	7.17	1073	2	0.65	-54.1	2400	53.64
0851	22.99	7.17	1074	2	0.65	-51.4	3000	53.64
0854	23.04	7.17	1074	1	0.64	-50.0	3600	53.64

Did well dewater? Yes <input checked="" type="radio"/> No	Amount actually evacuated: 3600
Sampling Time: 0855	Sampling Date: 10/15/12
Sample I.D.: EXP-1	Laboratory: CALSCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: SEE C.O.C.
Equipment Blank I.D.: @	Duplicate I.D.:

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555

*COLLECTED SPLIT FOR KMEP

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015 - EB1	Client: PARSONS
Sampler: EB	Gauging Date: 10/15/12
Well I.D.: EXP-2	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): 128.53	Depth to Water (ft.): 53.96
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: NSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0932 Flow Rate: 200 mL/min Pump Depth: 105'

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 (ft.)
0935	24.56	7.01	1603	3	1.15	-27.3	600	54.12
0938	24.54	7.00	1616	3	0.78	-18.4	1200	54.12
0941	24.48	6.98	1634	2	0.46	-8.0	1800	54.12
0944	24.46	6.99	1633	3	0.47	-5.5	2400	54.12
0947	24.39	6.99	1635	2	0.46	-0.3	3000	54.12
0950	24.37	6.99	1635	2	0.46	0.4	3600	54.12

Did well dewater? Yes <u>No</u>	Amount actually evacuated: 3600
Sampling Time: 0951	Sampling Date: 10/15/12
Sample I.D.: EXP-2	Laboratory: CALSCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	<u>Other</u> SEE C.O.C.
Equipment Blank I.D.: @	Duplicate I.D.:

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555

* COLLECTED SPLIT FOR KIMED

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-EB1	Client: PARSONS
Sampler: AS	Gauging Date: 10/15/12
Well I.D.: EXP-3	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): 123.02	Depth to Water (ft.): 52.80
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: 1026 Flow Rate: 200 mL/min Pump Depth: 100'

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 (ft.)
1029	24.88	7.18	924	2	1.02	-34.6	600	52.86
1032	24.62	7.15	931	1	0.69	-20.8	1200	52.86
1035	24.61	7.15	933	1	0.51	-14.9	1800	52.86
1038	24.58	7.14	934	∅	0.41	-8.9	2400	52.86
1041	24.54	7.14	934	∅	0.41	-8.8	3000	52.86
1044	24.54	7.14	934	1	0.40	-8.8	3600	52.86

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 3600
Sampling Time: 1045	Sampling Date: 10/15/12
Sample I.D.: EXP-3	Laboratory: CALSCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: SEE C.O.C.
Equipment Blank I.D.: @	Duplicate I.D.:

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555

* COLLECTED SPLIT FOR KM @

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>121015-ME1</u>	Client: KMEP
Sampler: <u>ER</u>	Start Date: <u>10/16/12</u>
Well I.D.: <u>EXP-5</u>	Well Diameter: 2 3 (4) 6 8 _____
Total Well Depth: <u>113.11</u>	Depth to Water: Pre: <u>47.78</u> Post: <u>47.84</u>
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: 0740 Flow Rate: 500 mL/Min Pump Depth: 100'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0743	20.83	6.89	910	7	1.49	-55.7	1500 mL	47.81
0746	21.59	6.95	929	5	0.53	-59.2	3000 mL	47.82
0749	21.71	7.00	937	4	0.34	-59.4	4500 mL	47.84
0752	21.87	7.03	969	3	0.31	-57.7	6000 mL	47.84
0755	21.90	7.04	986	3	0.30	-48.1	7500 mL	47.84

Did well dewater? Yes (No)	Amount actually evacuated: <u>7500 mL</u>
Sampling Time: <u>0756</u>	Sampling Date: <u>10/16/12</u>
Sample I.D.: <u>EXP-5</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: (TPH) (TPH_{sp}) (VOC's) MTBE Other:	
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>121015-ME1</u>	Client: KMEP
Sampler: <u>ER</u>	Start Date: 10/15/12 <u>10/16/12</u>
Well I.D.: <u>WCW-3</u>	Well Diameter: 2 3 4 6 8 _____
Total Well Depth: <u>50.59</u>	Depth to Water: Pre: <u>29.98</u> Post: <u>29.85</u>
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: 0819 Flow Rate: 500ml/min Pump Depth: 45'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
<u>0822</u>	<u>21.40</u>	<u>6.83</u>	<u>2725</u>	<u>13</u>	<u>2.18</u>	<u>8.9</u>	<u>1500 mL</u>	<u>29.81</u>
<u>0825</u>	<u>21.82</u>	<u>6.85</u>	<u>2727</u>	<u>8</u>	<u>1.12</u>	<u>7.2</u>	<u>3000 mL</u>	<u>29.84</u>
<u>0828</u>	<u>21.91</u>	<u>6.86</u>	<u>2725</u>	<u>4</u>	<u>0.93</u>	<u>8.0</u>	<u>4500 mL</u> 4000 mL ER	<u>29.85</u>
<u>0831</u>	<u>21.99</u>	<u>6.86</u>	<u>2720</u>	<u>5</u>	<u>0.91</u>	<u>7.4</u>	<u>6000 mL</u>	<u>29.85</u>
<u>0834</u>	<u>22.01</u>	<u>6.86</u>	<u>2713</u>	<u>4</u>	<u>0.90</u>	<u>7.5</u>	<u>7500 mL</u>	<u>29.85</u>

Did well dewater? Yes No	Amount actually evacuated: <u>7500 mL</u>
Sampling Time: <u>0835</u>	Sampling Date: <u>10/16/12</u>
Sample I.D.: <u>WCW-3</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: TPHg TPHfp VOC's MTBE	Other:
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>121015-ME1</u>	Client: KMEP
Sampler: <u>ER</u>	Start Date: <u>10/16/12</u>
Well I.D.: <u>WCW-13</u>	Well Diameter: 2 3 (4) 6 8 _____
Total Well Depth: <u>60.37</u>	Depth to Water: Pre: <u>31.38</u> Post: <u>31.42</u>
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: 0858 Flow Rate: 500ml/Min Pump Depth: 55'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0901	21.09	7.04	1940	103	1.18	7.6	1500mL	31.40
0904	21.29	7.05	1948	78	0.83	7.0	3000mL	31.40
0907	21.40	7.05	1952	41	0.80	6.6	4500mL	31.40
0910	21.49	7.05	1956	38	0.79	6.4	6000 mL	31.42
0913	21.53	7.05	1961	31	0.78	6.3	7500 mL	31.42

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: <u>7500mL</u>
Sampling Time: <u>0914</u>	Sampling Date: <u>10/16/12</u>
Sample I.D.: <u>WCW-13</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>TPHg</u> <u>TRHfp</u> <u>VOC's</u> <u>MTBE</u> Other:	
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>121015 - MEL</u>	Client: KMEP
Sampler: <u>ER</u>	Start Date: <u>10/16/12</u>
Well I.D.: <u>6MW-0-24</u>	Well Diameter: 2 3 4 6 8 _____
Total Well Depth: <u>45.21</u>	Depth to Water: Pre: <u>27.90</u> Post: <u>28.03</u>
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: 0954 Flow Rate: 500ml/Min Pump Depth: 43'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0957	20.34	6.92	1990	184	0.61	10.4	1500mL	27.97
1000	20.90	6.91	2014	165	0.53	9.1	3000mL	28.00
1003	21.10	6.93	2023	110	0.49	8.0	4500mL	28.00
1006	21.20	6.93	2027	95	0.49	7.7	6000mL	28.03
1009	21.19	6.94	2026	87	0.48	6.4	7500mL	28.03

Did well dewater? Yes No	Amount actually evacuated: <u>7500mL</u>
Sampling Time: <u>1010</u>	Sampling Date: <u>10/16/12</u>
Sample I.D.: <u>6MW-0-24</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: TPHg TPHfp VOC's MTBE	Other:
Equipment Blank I.D.: <u>EB-2</u> @ Time <u>1015</u>	Duplicate I.D.: <u>DUP-1</u>

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>121015-ER1</u>	Client: KMEP
Sampler: <u>EL</u>	Start Date: <u>10/16/12</u>
Well I.D.: <u>GMW-0-17</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: <u>39.50</u>	Depth to Water: Pre: <u>26.62</u> Post: <u>26.69</u>
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: 1100 Flow Rate: 500 mL/Min Pump Depth: 34'

Time	Temp. (<u>C</u> or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to water
<u>1103</u>	<u>22.64</u>	<u>6.73</u>	<u>1899</u>	<u>23</u>	<u>1.09</u>	<u>173.4</u>	<u>1500</u>	<u>26.65</u>
<u>1106</u>	<u>22.81</u>	<u>6.74</u>	<u>1931</u>	<u>20</u>	<u>0.98</u>	<u>155.9</u>	<u>3000</u>	<u>26.68</u>
<u>1109</u>	<u>22.83</u>	<u>6.75</u>	<u>1945</u>	<u>19</u>	<u>0.81</u>	<u>142.6</u>	<u>4500</u>	<u>26.68</u>
<u>1112</u>	<u>22.97</u>	<u>6.76</u>	<u>1947</u>	<u>18</u>	<u>0.79</u>	<u>138.2</u>	<u>6000</u>	<u>26.68</u>
<u>1115</u>	<u>23.01</u>	<u>6.76</u>	<u>1950</u>	<u>16</u>	<u>0.78</u>	<u>135.1</u>	<u>7500</u>	<u>26.69</u>

Did well dewater? Yes <input type="radio"/> <u>No</u> <input checked="" type="radio"/>	Amount actually evacuated: <u>7500 mL</u>
Sampling Time: 1110 ^{ER} <u>1116</u>	Sampling Date: <u>10/16/12</u>
Sample I.D.: <u>GMW-0-17</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>TPHg</u> <u>TPHfp</u> <u>VOC's</u> <u>MTBE</u>	Other: _____
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>121015-MEL</u>	Client: <u>KMEP</u>
Sampler: <u>Er</u>	Start Date: <u>10/19/12</u>
Well I.D.: <u>GMW-8</u>	Well Diameter: 2 3 4 6 8 <u> </u>
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 or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
<u> </u>		<u>Unable to locate</u>		<u>No Sample Taken</u>				<u> </u>

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.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>12W15-ME1</u>	Client: <u>KMEP</u>
Sampler: <u>Matt E.</u>	Start Date: <u>10-16-12</u>
Well I.D.: <u>GMW-0-1</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: <u>49.04</u>	Depth to Water: Pre: <u>24.33</u> Post: <u>24.41</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: 0736 Flow Rate: 300 mL/min Pump Depth: 45'

Time	Temp. (<u>C</u> or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u>)	Depth to water
0739	21.4	6.91	2552	30	3.28	180.0	500	24.38
0742	21.2	6.74	2584	14	1.92	188.1	1400	24.40
0745	21.3	6.77	2589	7	1.48	193.2	2300	24.40
0748	21.3	6.78	2588	7	1.41	199.5	3200	24.40
0751	21.5	6.81	2592	6	1.35	200.1	4100	24.41

Did well dewater? Yes <input checked="" type="checkbox"/> No	Amount actually evacuated: <u>4100 mL</u>
Sampling Time: <u>0755</u>	Sampling Date: <u>10-16-12</u>
Sample I.D.: <u>GMW-0-1</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>TPHg TPHfp VOC's MTBE</u>	Other: <u>See C.O.C</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>121015-ME1</u>	Client: <u>KMEP</u>
Sampler: <u>Matt E.</u>	Start Date: <u>10.16.12</u>
Well I.D.: <u>GMW-0-2</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: <u>49.25</u>	Depth to Water: Pre: <u>25.50</u> Post: <u>25.62</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: 0814 Flow Rate: 350 mL/min Pump Depth: 45'

Time	Temp. (C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
<u>0817</u>	<u>21.6</u>	<u>7.04</u>	<u>2323</u>	<u>22</u>	<u>2.80</u>	<u>156.1</u>	<u>500</u>	<u>25.55</u>
<u>0820</u>	<u>21.5</u>	<u>6.94</u>	<u>2347</u>	<u>13</u>	<u>1.12</u>	<u>160.2</u>	<u>1550</u>	<u>25.58</u>
<u>0823</u>	<u>22.1</u>	<u>6.93</u>	<u>2382</u>	<u>8</u>	<u>0.65</u>	<u>168.3</u>	<u>2600</u>	<u>25.61</u>
<u>0826</u>	<u>22.3</u>	<u>6.93</u>	<u>2405</u>	<u>6</u>	<u>0.51</u>	<u>170.5</u>	<u>3650</u>	<u>25.61</u>
<u>0829</u>	<u>22.3</u>	<u>6.91</u>	<u>2411</u>	<u>6</u>	<u>0.50</u>	<u>175.7</u>	<u>4700</u>	<u>25.61</u>
<u>0832</u>	<u>22.5</u>	<u>6.90</u>	<u>2413</u>	<u>5</u>	<u>0.52</u>	<u>177.0</u>	<u>5750</u>	<u>25.62</u>

Did well dewater? Yes No Amount actually evacuated: 5750 mL

Sampling Time: 0835 Sampling Date: 10.16.12

Sample I.D.: GMW-0-2 Laboratory: Alpha Analytical

Analyzed for: TPHg TPHfp VOC's MTBE Other: See C.O.L

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #:	121015-ME1	Client:	KMEP
Sampler:	Matt E.	Start Date:	10.16.12
Well I.D.:	GMU-0-3	Well Diameter:	2 3 <u>4</u> 6 8
Total Well Depth:	47.88	Depth to Water:	Pre: 25.33 Post: 25.95
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
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0849 Flow Rate: 325 mL/min Pump Depth: 42'

Time	Temp. (<u>C</u> or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u>)	Depth to water
0851	21.8	6.96	2468	43	2.32	85.7	500	25.39
0854	21.7	6.96	2554	29	1.10	93.3	1475	25.42
0857	22.0	6.94	2590	22	0.88	105.7	2450	25.43
0900	22.0	6.93	2601	17	0.75	122.8	3425	25.43
0903	22.0	6.93	2607	17	0.74	125.3	4400	25.45
0906	22.0	6.93	2610	20	0.71	126.1	5375	25.45

Did well dewater? Yes No Amount actually evacuated: 5375 mL

Sampling Time: 0910 Sampling Date: 10.16.12

Sample I.D.: GMU-0-3 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 #: <u>121015-ME1</u>	Client: <u>KMEP</u>
Sampler: <u>Matt E.</u>	Start Date: <u>10-16-12</u>
Well I.D.: <u>GMW-0-4</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: <u>49.51</u>	Depth to Water: Pre: <u>25.14</u> Post: <u>25.23</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: 0928 Flow Rate: 300 mL/min Pump Depth: 45

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ML</u>)	Depth to water
0930	22.8	7.14	2817	52	4.35	168.2	500	25.20
0933	23.2	6.98	2957	30	1.88	135.5	1400	25.21
0936	24.0	6.99	3025	15.	1.59	125.1	2300	25.21
0939	24.0	7.00	3114	13	1.40	121.9	3200	25.22
0942	24.3	7.01	3157	10	1.37	120.0	4100	25.23
0945	24.3	7.01	3159	10	1.36	120.8	5000	25.23

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: <u>5000 mL.</u>
Sampling Time: <u>0950</u>	Sampling Date: <u>10-16-12</u>
Sample I.D.: <u>GMW-0-4</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>TPHg TPHfp VOC's MTBE</u>	Other: <u>See C.O.C</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>121015-ME1</u>	Client: <u>KMEP</u>
Sampler: <u>Matt E.</u>	Start Date: <u>10-16-12</u>
Well I.D.: <u>6 MW-0.4 (MID)</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: <u>61.49</u>	Depth to Water: Pre: <u>32.25</u> Post: <u>32.38</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: 1013 Flow Rate: 350 $\frac{L}{min}$ Pump Depth: 55'

Time	Temp. (<u>C</u> or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to water
1016	24.0	7.83	1143	44	4.17	105.6	500	32.33
1019	23.9	7.52	1207	23	1.51	13.7	1550	32.34
1022	23.6	7.38	1256	17	1.21	10.1	2600	32.36
1025	23.6	7.31	1315	17	0.83	10.5	3650	32.36
1028	23.7	7.28	1344	15	0.90	12.4	4700	32.37
1031	23.7	7.27	1349	13	0.92	12.8	5750	32.37

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: <u>5750 mL</u>
Sampling Time: <u>1035</u>	Sampling Date: <u>10-16-12</u>
Sample I.D.: <u>6 MW-0.4 (MID)</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>TPHg TPHfp VOC's MTBE</u>	Other: <u>See C.O.C</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>121015-ME1</u>	Client: <u>KMEP</u>
Sampler: <u>Matt E.</u>	Start Date: <u>10-16-12</u>
Well I.D.: <u>GMW-0.5</u>	Well Diameter: 2 3 <input checked="" type="radio"/> 6 8 _____
Total Well Depth: <u>48.92</u>	Depth to Water: Pre: <u>25.68</u> Post: <u>25.80</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVO</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: 1101 Flow Rate: 300 ^{ml}/min Pump Depth: 44'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to water
1103	22.2	7.11	2335	49	1.62	108.6	500	25.75
1106	23.2	6.98	2357	41	1.03	106.9	1400	25.78
1109	24.0	7.10	2343	16	0.59	90.7	2300	25.79
1112	24.4	7.11	2346	10	0.37	85.2	3200	25.79
1115	24.5	7.10	2348	12	0.40	80.0	4100	25.79
1118	24.5	7.10	2355	12	0.41	77.9	5000	25.80

Did well dewater? Yes Amount actually evacuated: 5000 ml.

Sampling Time: 1120 Sampling Date: 10-16-12

Sample I.D.: GMW-0.5 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 #: <u>121015-ME1</u>	Client: <u>KMEP</u>
Sampler: <u>Matt E.</u>	Start Date: <u>10-16-12</u>
Well I.D.: <u>GMW-08</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: <u>49.48</u>	Depth to Water: Pre: <u>12.87</u> Post: <u>23.00</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: 1207 Flow Rate: 300 mL/min Pump Depth: 45'

Time	Temp. (C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or liters)	Depth to water
1209	21.7	6.87	2909	25	1.75	209.6	500	22.94
1212	22.3	6.83	2885	11	1.58	198.0	1400	22.95
1215	23.0	6.85	2924	10	1.41	191.6	2300	22.95
1218	23.1	6.88	3053	10	1.39	186.3	3200	22.97
1221	23.1	6.88	3071	8	1.27	180.8	4100	22.98
1224	23.5	6.89	3077	7	1.25	180.1	5000	22.98

Did well dewater? Yes No Amount actually evacuated: 5000 mL

Sampling Time: 1230 Sampling Date: 10-16-12

Sample I.D.: GMW-0-8 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 #: 121015-ME1	Client: KMEP
Sampler: ER	Start Date: 10/16/02
Well I.D.: 6MW-0-9	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 50.03	Depth to Water: Pre: 26.74 Post: 26.79
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: 1151 Flow Rate: 500ml/min Pump Depth: 45'

Time	Temp. (<u>C</u> or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to water
1154	22.26	6.81	2239	21	3.66	15.3	1500	26.75
1157	22.37	6.81	2247	19	3.26	15.8	3000	26.78
1200	22.51	6.81	2260	16	3.12	16.3	4500	26.78
1203	22.58	6.85	2285	13	3.10	14.9	6000	26.79
1206	22.61	6.85	2296	12	3.08	14.7	7500	26.79

Did well dewater? Yes <input type="checkbox"/> <u>No</u>	Amount actually evacuated: <u>7500 mL</u>
Sampling Time: <u>1207</u>	Sampling Date: <u>10/16/02</u>
Sample I.D.: <u>6MW-0-9</u>	Laboratory: Alpha Analytical
Analyzed for: <u>TPHg</u> <u>TPHfp</u> <u>VOC's</u> MTBE	Other:
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>121015-ME1</u>	Client: <u>KMEP</u>
Sampler: <u>Matt F.</u>	Start Date: <u>10-16-12</u>
Well I.D.: <u>GMW-0-19</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: <u>40.02</u>	Depth to Water: Pre: <u>27.46</u> Post: <u>27.54</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: 1255 Flow Rate: 350 mL/min Pump Depth: 35'

Time	Temp. (C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1257	24.9	7.32	1613	18	4.86	133.8	500	27.50
1300	23.3	6.94	1688	10	0.80	142.5	1550	27.52
1303	23.9	6.96	1712	7	0.51	134.2	2600	27.52
1306	24.0	7.05	1737	5	0.50	127.2	3650	27.53
1309	24.6	7.11	1740	6	0.44	122.3	4700	27.53
1312	24.6	7.18	1741	5	0.39	116.9	5750	27.54
1315	24.7	7.20	1740	5	0.40	117.1	6800	27.54

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>6800</u> mL.
Sampling Time: <u>1315</u>	Sampling Date: <u>10-16-12</u>
Sample I.D.: <u>GMW-0-19</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>TPHg TPHfp VOC's MTBE</u>	Other: <u>See C.O.C</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #:	121015-ME1	Client:	KMEP
Sampler:	Matt E.	Start Date:	10-16-12
Well I.D.:	GMW-13	Well Diameter:	2 3 $\text{\textcircled{4}}$ 6 8 _____
Total Well Depth:	49.65	Depth to Water:	Pre: 27.89 Post: 27.97
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: 1339 Flow Rate: 300 mL/min Pump Depth: 45

Time	Temp. ($^{\circ}\text{C}$ or $^{\circ}\text{F}$)	pH	Cond. (mS or μS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1343	24.6	7.41	775	25	5.21	149.5	500	27.95
1346	24.0	7.01	733	11	4.22	165.0	1400	27.95
1349	23.7	6.85	720	10	3.18	172.5	2300	27.96
1352	24.0	7.02	730	6	2.96	160.9	3200	27.96
1355	24.3	7.10	732	5	2.61	153.1	4100	27.96
1358	24.4	7.14	733	5	2.55	148.7	5000	27.96
1401	24.4	7.15	738	6	2.54	148.0	5900	27.97

Did well dewater? Yes No Amount actually evacuated: 5900 mL

Sampling Time: 1405 Sampling Date: 10-16-12

Sample I.D.: GMW-13 Laboratory: Alpha Analytical

Analyzed for: TPHg TPHfp VOC's MTBE Other: See COC

Equipment Blank I.D.: EB-1 @ Time 1410 Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-ME1	Client: KMEP
Sampler: ER	Start Date: 10/16/12
Well I.D.: GMW-37	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 53.49	Depth to Water: Pre: 30.90 Post: 30.98
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: Deaerated Tubing New Tubing Other _____

Start Purge Time: 1309 Flow Rate: 500 mL/Min Pump Depth: 48.5'

Time	Temp. (°C or °F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1312	23.37	6.89	1341	25	2.29	-2.8	1500	30.96
1315	23.59	6.89	1350	19	1.98	2.2	3000	30.97
1318	23.66	6.93	1358	13	1.41	1.5	4500	30.98
1321	23.68	6.96	1371	11	1.38	2.3	6000	30.98
1324	23.71	6.98	1378	9	1.36	2.1	7500 mL	30.98

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 7500 mL
Sampling Time: 1325	Sampling Date: 10/16/12
Sample I.D.: GMW-37	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other: _____
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>121015-ME1</u>	Client: KMEP
Sampler: <u>ER</u>	Start Date: <u>10/16/12</u>
Well I.D.: <u>GMW-SF-7</u>	Well Diameter: 2 3 (4) 6 8 _____
Total Well Depth: <u>43.22</u>	Depth to Water: Pre: <u>28.93</u> Post: <u>28.97</u>
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: 1430 Flow Rate: 500 ml/Min Pump Depth: 38.5'

Time	Temp. (°C or °F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1433	24.32	6.90	695 ✓	33	3.31 ER	28.2	1500	28.94
1436	25.00	6.88	709	38	3.06	25.0	3000	28.94
1439	24.96	6.96	704	27	3.07	20.1	4500	28.97
1442	24.98	6.97	707	27	3.00	19.7	6000	28.97
1445	25.01	7.00	706	23	2.98	17.4	7500	28.97

Did well dewater? Yes (No)	Amount actually evacuated: <u>7500 mL</u>
Sampling Time: <u>1446</u>	Sampling Date: <u>10/16/12</u>
Sample I.D.: <u>GMW-SF-7</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: (TPHg) (TPH_{sp}) (VOCs) MTBE	Other:
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-ME1	Client: KMEP
Sampler: ER	Start Date: 10/16/12
Well I.D.: GMW-SF-8	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 43.74	Depth to Water: Pre: 30.21 Post: 30.27
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: 1348 Flow Rate: 500mL/Min Pump Depth: 38.5'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1351	23.33	6.79	1687	78	2.71	10.2	1500	30.25
1354	23.61	6.78	1696	63	2.15	10.5	3000	30.25
1357	23.96	6.78	1707	57	2.10	11.3	4500	30.26
1400	24.07	6.80	1709	48	2.07	9.9	6000	30.27
1403	24.10	6.81	1713	40	2.05	10.3	7500	30.27

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 7500 mL
Sampling Time: 1404	Sampling Date: 10/16/12
Sample I.D.: GMW-SF-8	Laboratory: Alpha Analytical
Analyzed for: <u>TPHg</u> <u>TPH_f</u> <u>VOC's</u> MTBE	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>121015-ME1</u>	Client: <u>KMEP</u>
Sampler: <u>Matt E.</u>	Start Date: <u>10-16-12</u>
Well I.D.: <u>HL-2</u>	Well Diameter: 2 3 4 6 8 _____
Total Well Depth: <u>39.00</u>	Depth to Water: Pre: <u>30.22</u> Post: <u>30.40</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVE</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: 1420 Flow Rate: 300 mL/MIN. Pump Depth: 37'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1422	23.3	6.77	3287	256	3.02	4.0	500	30.30
1425	24.0	6.60	3220	211	1.15	22.1	1400	30.34
1428	24.4	6.64	3360	159	0.53	11.5	2300	30.35
1431	24.6	6.66	3380	142	0.46	-3.0	3200	30.38
1434	24.6	6.66	3395	113	0.42	-15.5	4100	30.38
1437	24.8	6.68	3398	110	0.41	-16.1	5000	30.38
1440	24.8	6.70	3395	105	0.37	-16.9	5900	30.40

Did well dewater? Yes Amount actually evacuated: 5900 mL.

Sampling Time: 1440 Sampling Date: 10-16-12

Sample I.D.: HL-2 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 #: 121015-MEL	Client: KMEP
Sampler: ER	Start Date: 10/19/16
Well I.D.: GMW-2	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 or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
			Unable to locate well					
		No Sample Taken						

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 #: 121015 - MEL	Client: KMEP
Sampler: EA	Start Date: 10/29/12
Well I.D.: GMW-3	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 or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
_____			Unable to locate well			_____		
_____			No Sample Taken			_____		
_____			_____			_____		
_____			_____			_____		
_____			_____			_____		
_____			_____			_____		
_____			_____			_____		
_____			_____			_____		

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.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>121015-ME1</u>	Client: <u>KMEP</u>
Sampler: <u>Matt E.</u>	Start Date: <u>10-18-12</u>
Well I.D.: <u>Mw-12</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: <u>52.00</u>	Depth to Water: Pre: <u>30.31</u> Post: <u>30.38</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: 0845 Flow Rate: 400 ml/min Pump Depth: 47'

Time	Temp. (<u>C</u> or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u>)	Depth to water
<u>0847</u>	<u>23.1</u>	<u>7.31</u>	<u>1019</u>	<u>57</u>	<u>1.76</u>	<u>-0.6</u>	<u>500</u>	<u>30.35</u>
<u>0850</u>	<u>23.1</u>	<u>7.03</u>	<u>985</u>	<u>26</u>	<u>0.57</u>	<u>-2.9</u>	<u>1700</u>	<u>30.37</u>
<u>0853</u>	<u>23.3</u>	<u>7.04</u>	<u>983</u>	<u>12</u>	<u>0.43</u>	<u>-9.8</u>	<u>2900</u>	<u>30.38</u>
<u>0856</u>	<u>23.3</u>	<u>7.07</u>	<u>977</u>	<u>9</u>	<u>0.41</u>	<u>-13.5</u>	<u>4100</u>	<u>30.38</u>
<u>0859</u>	<u>23.5</u>	<u>7.07</u>	<u>976</u>	<u>8</u>	<u>0.40</u>	<u>-18.7</u>	<u>5300</u>	<u>30.38</u>
<u>0902</u>	<u>23.5</u>	<u>7.09</u>	<u>978</u>	<u>8</u>	<u>0.40</u>	<u>-20.1</u>	<u>6500</u>	<u>30.38</u>

Did well dewater? Yes No Amount actually evacuated: 6500 ml

Sampling Time: 0905 Sampling Date: 10-18-12

Sample I.D.: Mw-12 Laboratory: Alpha Analytical

Analyzed for: TPHg TPHfp VOC's MTBE Other: See E.O.C

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>121015-ME1</u>	Client: <u>KMEP</u>
Sampler: <u>ME</u>	Start Date: <u>10-17-12</u>
Well I.D.: <u>PW-3</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: <u>50.13</u>	Depth to Water: Pre: <u>27.07</u> Post: <u>27.12</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: 0748 Flow Rate: 350 $\frac{mL}{min}$ Pump Depth: 45'

Time	Temp. (°C or °F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0751	22.3	6.85	2366	130	3.22	12.8	500	27.10
0754	22.3	6.85	2378	96	1.01	0.6	1550	27.11
0757	22.5	6.84	2402	88	0.85	-5.1	2600	27.11
0800	22.9	6.84	2433	50	0.65	-10.8	3650	27.11
0803	22.8	6.84	2435	47	0.61	-12.1	4700	27.12
0806	22.8	6.83	2435	45	0.60	-12.9	5750	27.12

Did well dewater? Yes No Amount actually evacuated: 5750 mL

Sampling Time: 0810 Sampling Date: 10-17-12

Sample I.D.: PW-3 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 #: <u>121015-ME1</u>	Client: <u>KMEP</u>
Sampler: <u>Matte</u>	Start Date: <u>10-17-12</u>
Well I.D.: <u>6" MW 38</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: <u>53.02</u>	Depth to Water: Pre: <u>29.75</u> Post: <u>29.86</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: 0917 Flow Rate: 350 ml/min Pump Depth: 48'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to water
0920	22.8	7.49	498	26	1.92	148.7	500	29.82
0923	23.0	7.12	463	19	0.99	148.3	1550	29.84
0926	23.8	7.11	480	13	0.95	139.1	2600	29.84
0929	24.2	7.11	482	7	0.90	137.9	3650	29.85
0932	24.5	7.10	488	5	0.82	128.1	4700	29.85
0935	24.6	7.11	487	5	0.84	128.5	5750	29.86

Did well dewater? Yes <u>No</u>	Amount actually evacuated: <u>5750 ml</u>
Sampling Time: <u>0935</u>	Sampling Date: <u>10-17-12</u>
Sample I.D.: <u>6" MW 38</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>TPHg TPHfp VOC's MTBE</u>	Other: <u>See e.o.c</u>
Equipment Blank I.D.: @ _____ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>121015-ME1</u>	Client: <u>KMEP</u>
Sampler: <u>Matt E.</u>	Start Date: <u>10-17-12</u>
Well I.D.: <u>GMW-0-16</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: <u>48.69</u>	Depth to Water: Pre: <u>27.38</u> Post: <u>27.48</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: 0830 Flow Rate: 300 $\frac{1}{2}$ Pump Depth: 441

Time	Temp. ($^{\circ}$ C or $^{\circ}$ F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0834	21.6	7.19	1693	58	3.12	118.9	500	27.44
0837	21.8	6.87	1707	30	1.05	123.5	1400	27.46
0840	22.5	6.92	1730	19	0.69	131.4	2300	27.47
0843	23.0	6.99	1756	20	0.41	135.3	3200	27.47
0846	23.1	6.97	1760	13	0.34	146.4	4100	27.48
0849	23.2	6.97	1761	13	0.35	153.4	5000	27.48
0852	23.2	6.98	1761	11	0.37	154.1	5900	27.48

Did well dewater? Yes No Amount actually evacuated: 5900 mL

Sampling Time: 0855 Sampling Date: 10-17-12

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 #: 121015 - ME1	Client: KMEP
Sampler: ER	Start Date: 10/17/12
Well I.D.: MW-6	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth: 51.95	Depth to Water: Pre: 30.91 Post: 40.01
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: 0952 Flow Rate: 500ml/Min Pump Depth: 47'

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to water
0955	22.79	6.73	1629	6	1.39	-32.1	1500	30.95
0958	23.46	6.74	1648	5	1.31	-35.9	3000	30.98
1001	23.68	6.76	1651	6	1.30	-38.0	4500	40.01
1004	23.78	6.78	1651	5	1.28	-38.8	6000	40.01
1007	23.84	6.78	1647	4	1.27	-38.1	7500	40.01

Did well dewater? Yes <u>(No)</u>	Amount actually evacuated: 7500 ml
Sampling Time: 1008	Sampling Date: 10/17/12
Sample I.D.: MW-6	Laboratory: Alpha Analytical
Analyzed for: <u>(TPHg)</u> <u>(TPHf)</u> <u>(VOC's)</u> MTBE	Other: See C.O.C
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>121015-ME1</u>	Client: KMEP
Sampler: <u>ER</u>	Start Date: <u>10/17/12</u>
Well I.D.: <u>MW-7</u>	Well Diameter: 2 3 (4) 6 8 _____
Total Well Depth: <u>53.57</u>	Depth to Water: Pre: <u>31.81</u> Post: <u>31.90</u>
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: 0823 Flow Rate: 500mL/min Pump Depth: 48'

Time	Temp. (°C or °F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to water
<u>0826</u>	<u>22.48</u>	<u>6.77</u>	<u>2835</u>	<u>208</u>	<u>0.33</u>	<u>-15.8</u>	<u>1500</u>	<u>31.86</u>
<u>0829</u>	<u>22.93</u>	<u>6.77</u>	<u>2814</u>	<u>116</u>	<u>0.21</u>	<u>-15.0</u>	<u>3000</u>	<u>31.88</u>
<u>0832</u>	<u>23.54</u>	<u>6.78</u>	<u>2827</u>	<u>97</u>	<u>0.19</u>	<u>-15.4</u>	<u>4500</u>	<u>31.89</u>
<u>0835</u>	<u>23.87</u>	<u>6.79</u>	<u>2840</u>	<u>84</u>	<u>0.18</u>	<u>-15.5</u>	<u>6000</u>	<u>31.89</u>
<u>0838</u>	<u>23.91</u>	<u>6.78</u>	<u>2846</u>	<u>84</u>	<u>0.18</u>	<u>-15.5</u>	<u>7500</u>	<u>31.90</u>

Did well dewater? Yes (No)	Amount actually evacuated: <u>7500mL</u>
Sampling Time: <u>0839</u>	Sampling Date: <u>10/17/12</u>
Sample I.D.: <u>MW-7</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: (TPH) g (TPH) fp (VOC) s MTBE	Other: <u>See C.O.C</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-MEL	Client: KMEP
Sampler: ER	Start Date: 10/17/12
Well I.D.: MW-19 (Mid)	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 62.03	Depth to Water: Pre: 34.29 Post: 34.37
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: 0751 Flow Rate: 500ml/min Pump Depth: 57'

Time	Temp. (°C or °F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0754	22.01	6.81	1910	16 0.6 ER	0.69	16.3	1500	34.35
0757	22.82	6.80	1984	4	0.44	1.4	3000	34.35
0800	23.47	6.84	2009	5	0.49	2.4	4500	34.37
0803	23.51	6.85	2018	4	0.47	1.3	6000	34.37
0806	23.53	6.87	2029	4	0.45	1.1	7500	34.37

Did well dewater? Yes (No)	Amount actually evacuated: 7500
Sampling Time: 0809	Sampling Date: 10/17/12
Sample I.D.: MW-19 (Mid)	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other: See COC
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>121015-MEI</u>	Client: KMEP
Sampler: <u>FL</u>	Start Date: <u>10/17/12</u>
Well I.D.: <u>MW-20 (M10)</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 <u> </u>
Total Well Depth: <u>56.53</u>	Depth to Water: Pre: <u>33.05</u> Post: <u>33.16</u>
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: 0922 Flow Rate: 500ml/min Pump Depth: 51'

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to water
0925	22.95	6.82	2575	12	0.53	-45.1	1500	33.10
0928	23.15	6.82	2615	6	0.50	-37.6	3000	33.14
0931	23.20	6.83	2648	5	0.48	-38.6	4500	33.15
0934	23.23	6.85	2674	6	0.45	-44.1	6000	33.16
0937	23.25	6.86	2681	5	0.44	-44.8	7500	33.16

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>7500 mL</u>
Sampling Time: <u>0938</u>	Sampling Date: <u>10/17/12</u>
Sample I.D.: <u>MW-20 (M10)</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>TPHg</u> <u>TPHfp</u> <u>VOC's</u> <u>MTBE</u> Other: <u>See C.O.C</u>	
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-ME1	Client: KMEP
Sampler: ER	Start Date: 10/17/12
Well I.D.: WCV-7	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 51.59	Depth to Water: Pre: 30.41 Post: 30.51
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: 1044 Flow Rate: 500ml/min Pump Depth: 31'

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to water
1047	22.97	6.75	4126	9	0.34	-26.2	1500	30.46
1050	23.69	6.70	4181	9	0.29	-24.9	3000	30.48
1053	23.74	6.68	4225	7	0.21	-23.3	4500	30.50
1056	23.78	6.68	4243	6	0.23	-22.7	6000	30.51
1059	23.81	6.68	4256	6	0.23	-23.6	7500	30.51

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 7500
Sampling Time: 1100	Sampling Date: 10/17/12
Sample I.D.: WCV-7	Laboratory: Alpha Analytical
Analyzed for: <u>TPHg</u> <u>TPHfp</u> <u>VOC's</u> MTBE	Other: See C.O.C
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>111015-ME1</u>	Client: <u>KMEP</u>
Sampler: <u>ER</u>	Start Date: <u>10/18/12</u>
Well I.D.: <u>GMW-18</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 _____
Total Well Depth: <u>Ext pump</u>	Depth to Water: Pre: <u>29.73</u> Post: _____
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>RVE</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 or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
—			Ext	Post	Not			
—			ATTEMPTED to sample on					
			10/17/12, 10/18/12 & 10/19/12					
—			No	Sample	Taken			

Did well dewater? Yes No	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 #: <u>121015-ME1</u>	Client: KMEP
Sampler: <u>ERL</u>	Start Date: <u>10/07/12</u>
Well I.D.: <u>MW-8</u>	Well Diameter: 2 3 (4) 6 8 _____
Total Well Depth: MW-8 <u>ER 51.83</u>	Depth to Water: Pre: <u>29.48</u> Post: <u>29.57</u>
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: 1157 Flow Rate: 500mL/Min Pump Depth: 45'

Time	Temp. (°C or °F)	pH	Cond. (mS or (μS))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to water
1200	23.10	6.70	1700	18	1.55	-6.4	1500	29.52
1203	23.56	6.64	1676	17	1.16	-6.8	3000	29.55
1206	23.71	6.65	1675	11	0.70	-8.1	4500	29.56
1209	23.79	6.67	1685	8	0.61	-8.8	6000	29.56
1212	23.84	6.69	1694	6	0.60	-9.0	7500	29.57

Did well dewater? Yes <input type="checkbox"/> (No) <input checked="" type="checkbox"/>	Amount actually evacuated: <u>7500ml</u>
Sampling Time: <u>1213</u>	Sampling Date: <u>10/07/12</u>
Sample I.D.: <u>MW-8</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: (TPHg) (TPHfp) (VOCs) (MTBE)	Other: <u>See c.o.c</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>121015-ME1</u>	Client: <u>KMEP</u>
Sampler: <u>ME</u>	Start Date: <u>10-17-12</u>
Well I.D.: <u>GMW-39</u>	Well Diameter: 2 3 <u>4</u> 6 8 <u> </u>
Total Well Depth: <u>50.56</u>	Depth to Water: Pre: <u>29.58</u> Post: <u>29.66</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: 1001 Flow Rate: 325 mL/min Pump Depth: 45'

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to water
1003	22.7	7.27	840	31	3.46	167.1	500	29.61
1006	22.7	6.90	936	22	1.55	168.9	1475	29.64
1009	23.5	7.04	978	15	0.65	161.4	2450	29.65
1012	24.0	7.11	981	15	0.32	155.9	3425	29.65
1015	24.1	7.10	982	12	0.31	150.7	4400	29.65
1018	24.1	7.10	988	13	0.33	150.5	5375	29.66

Did well dewater? Yes No Amount actually evacuated: 5375 mL

Sampling Time: 1020 Sampling Date: 10-17-12

Sample I.D.: GMW-39 Laboratory: Alpha Analytical

Analyzed for: TPHg TPHfp VOC's MTBE Other: See C.O.C

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: Pup-2 @ _____

LOW FLOW WELL MONITORING DATA SHEET

Project #:	121015-ME1	Client:	KMEP
Sampler:	Matt E.	Start Date:	10-17-12
Well I.D.:	GMW-SF-9	Well Diameter:	2 3 4 6 8
Total Well Depth:	Pump	Depth to Water:	Pre: 34.21 Post: 34.21
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
 Sampling Method: Dedicated Tubing New Tubing Other Port
 Start Purge Time: 1030 Flow Rate: 400 mL/MIN Pump Depth:

Time	Temp. °C or °F	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or gal)	Depth to water
1031	22.5	7.26	1001	20	3.14	-96.1	500	34.21
1034	21.4	7.18	975	12	2.70	-89.0	1700	34.21
1037	21.3	7.16	971	13	2.65	-88.3	2900	34.21
1040	21.0	7.15	968	13	2.61	-87.8	4100	34.21

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: <u>4100 L.</u>
Sampling Time: <u>1040</u>	Sampling Date: <u>10-17-12</u>
Sample I.D.: <u>GMW-SF-9</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>TPHg TPHfp VOC's MTBE</u>	Other: <u>See C.O.C</u>
Equipment Blank I.D.: <u> </u> @ <u> </u> Time	Duplicate I.D.: <u> </u>

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-MEI	Client: KMEP
Sampler: Matt E.	Start Date: 10.17.12
Well I.D.: GMW-SF.10	Well Diameter: 2 3 4 6 8 _____
Total Well Depth: 47.05	Depth to Water: Pre: 29.88 Post: 29.98
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: DVC Grade	Flow Cell Type: YSI 556

Purge Method: Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: **1111** Flow Rate: **300 ml/min** Pump Depth: **42'**

Time	Temp. (°C or °F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to water
1113	24.8	7.58	584	47	2.73	140.9	500	29.95
1116	25.4	7.31	599	26	1.00	127.9	1400	29.97
1119	25.6	7.27	622	10	0.54	112.4	2300	29.97
1122	25.9	7.25	618	10	0.31	105.0	3200	29.98
1125	25.9	7.25	618	8	0.30	101.3	4100	29.98
1128	25.8	7.22	615	7	0.30	101.0	5000	29.98

Did well dewater? Yes <input checked="" type="checkbox"/>	Amount actually evacuated: 5000 ml
Sampling Time: 1130	Sampling Date: 10.17.12
Sample I.D.: GMW-SF.10	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Order: See C.O.C
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: Dup-3

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>121015-ME1</u>	Client: <u>KMEP</u>
Sampler: <u>Matt E.</u>	Start Date: <u>10-17-12</u>
Well I.D.: <u>6MW-14</u>	Well Diameter: 2 3 <input checked="" type="radio"/> 6 8 _____
Total Well Depth: <u>49.70</u>	Depth to Water: Pre: <u>28.91</u> Post: <u>29.00</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: 1315 Flow Rate: 350 $\frac{ml}{min}$ Pump Depth: 44'

Time	Temp. (°C or °F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1317	25.4	6.62	1925	18	1.76	44.6	500	28.95
1320	24.4	6.24	1919	10	0.64	62.6	1550	28.97
1323	24.4	6.11	1905	7	0.58	62.4	2600	28.99
1326	24.4	6.08	1910	5	0.32	60.6	3650	28.99
1329	24.1	6.07	1911	5	0.31	61.3	4700	28.99
1332	24.0	6.10	1911	6	0.30	61.5	5750	29.00

Did well dewater? Yes No Amount actually evacuated: 5750

Sampling Time: 1335 Sampling Date: 10-17-12

Sample I.D.: 6MW-14 Laboratory: Alpha Analytical

Analyzed for: TPHg TPHfp VOC's MTBE Other: See C.O.C

Equipment Blank I.D.: EB-1 @ Time 1345 Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>121015-ME1</u>	Client: <u>KMEP</u>
Sampler: <u>Matt E.</u>	Start Date: <u>10-18-12</u>
Well I.D.: <u>GMW-27</u>	Well Diameter: 2 3 4 6 8 <u> </u>
Total Well Depth: <u>48.92</u>	Depth to Water: Pre: <u>29.05</u> Post: <u>29.12</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: 0757 Flow Rate: 375 mL/min Pump Depth: 44'

Time	Temp. (C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ML)	Depth to water
0800	22.7	6.70	3476	41	4.05	-98.1	500	29.11
0803	22.4	6.50	3675	22	2.09	-93.2	1625	29.12
0806	22.5	6.52	3688	11	1.69	-90.9	2750	29.12
0809	22.8	6.59	3694	10	1.42	-81.8	3875	29.12
0812	23.2	6.68	3714	7	1.28	-93.5	5060	29.12
0815	23.3	6.70	3733	5	1.25	-97.5	6125	29.12
0818	23.3	6.72	3739	5	1.21	-98.1	7250	29.12

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: <u>7250 mL.</u>
Sampling Time: <u>0820</u>	Sampling Date: <u>10-18-12</u>
Sample I.D.: <u>GMW-27</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>TPHg TPHfp VOC's MTBE</u>	Other: <u>See C.O.C</u>
Equipment Blank I.D.: <u> </u> @ <u> </u> Time	Duplicate I.D.: <u>Dup. 4 e-</u>

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-ME1	Client: KMEP
Sampler: ER	Start Date: 10/19/12
Well I.D.: GMW-0-10	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 50.06	Depth to Water: Pre: 28.46 Post: 28.53
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: 1040 Flow Rate: 500ml/min Pump Depth: 45'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1043	21.64	6.79	1991	18	1.81	-14.7	1500	28.42
1046	21.88	6.81	1906	15	1.62	-16.8	3000	28.46
1049	21.97	6.83	1919	12	1.55	-19.3	4500	29.48
1052	22.04	6.87	1931	8	1.54	-20.6	6000	28.50
1055	22.06	6.88	1946	7	1.52	-21.9	7500	28.51
1058	22.06	6.88	1948	7	1.50	-23.4	9000	28.53

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 9000 mL
Sampling Time: 1100	Sampling Date: 10/19/12
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.: EB-1 @ Time 1115	Duplicate I.D.: DUP-5 @ —

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-ME1	Client: KMEP
Sampler: ER	Start Date: 10/17/12
Well I.D.: PZ-10	Well Diameter: (2) 3 4 6 8
Total Well Depth: 37.88	Depth to Water: Pre: 28.11 Post: 28.25
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: 1306 Flow Rate: 500ml/min Pump Depth: 31'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1309	22.86	6.57	1554	25	0.81	-43.9	1500	28.21
1312	23.87	6.63	1596	22	0.64	-48.2	3000	28.23
1315	23.52	6.68	1610	17	0.49	-55.1	4500	28.23
1318	23.62	6.71	1616	12	0.47	-53.9	6000	28.24
1321	23.59	6.72	1620	10	0.45	-55.1	7500	28.25
1324	23.61	6.69	1663	8	0.44	-52.1	9000	28.25

Did well dewater? Yes <input checked="" type="radio"/> No <input type="radio"/>	Amount actually evacuated: 9000ml
Sampling Time: 1325	Sampling Date: 10/17/12
Sample I.D.: PZ-10	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other: See C.O.C
Equipment Blank I.D.: EB-2 @ Time 1335	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>121015-ME1</u>	Client: KMEP
Sampler: <u>EV</u>	Start Date: <u>10/19/12</u>
Well I.D.: <u>MW-15</u>	Well Diameter: 2 3 (4) 6 8 _____
Total Well Depth: _____	Depth to Water: Pre: <u>32.38</u> Post: <u>32.49</u>
Depth to Free Product: <u>31.36</u>	Thickness of Free Product (feet): <u>1.02</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 Check Valve
 Start Purge Time: 0811 Flow Rate: 200ml/min Pump Depth: _____

Time	Temp. (<u>C</u> or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to water
0814	22.55	6.41	1392	108	2.75 <u>2.75</u>	-78.7	600	32.49
0817	22.89	6.71	1412	176	2.13	-75.3	1100	32.49
0820	22.91	6.80	1437	211	2.00	-70.6	1800	32.49
0823	22.92	6.85	1451	233	1.98	-68.4	2400	32.49
0826	22.93	6.88	1463	275	1.96	-60.2	3000	32.49
0829	22.93	6.90	1476	291	1.95	-58.7	3600	32.49

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: <u>3600mL</u>
Sampling Time: <u>0830</u>	Sampling Date: <u>10/19/12</u>
Sample I.D.: <u>MW-15</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>TPHg</u> <u>TPHfp</u> <u>VOC's</u> <u>MTBE</u>	Other: <u>See C.O.C</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-ME1	Client: KMEP
Sampler: ER	Start Date: 10/07/02
Well I.D.: GMW-1	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 49.45	Depth to Water: Pre: 29.49 Post: 29.57
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: 1401 Flow Rate: 500 mL/Min Pump Depth: 45'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1404	26.00	6.67	1664	41	2.36	-71.3	1500	29.54
1407	26.41	6.69	1687	28	2.28	-72.3	3000	29.55
1410	26.42	6.67	1686	20	2.14	-74.5	4500	29.55
1413	26.41	6.70	1681	18	2.09	-77.6	6000	29.55
1416	26.47	6.72	1677	19	2.05	-79.2	7500	29.56
1419	26.45	6.73	1670	19	1.99	-81.9	9000	29.57

Did well dewater? <u>Yes</u> No	Amount actually evacuated: 9000 mL
Sampling Time: 1420	Sampling Date: 10/07/02
Sample I.D.: GMW-1	Laboratory: Alpha Analytical
Analyzed for: <u>TPHg</u> TPHfp <u>VOC's</u> MTBE	Other: See COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>12105-MEL</u>	Client: KMEP
Sampler: <u>ER</u>	Start Date: <u>10/19/12</u>
Well I.D.: <u>GMW-4</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: <u> </u>	Depth to Water: Pre: <u>29.80</u> Post: <u>29.93</u>
Depth to Free Product: <u>29.71 29.65</u>	Thickness of Free Product (feet): <u>0.16 0.15</u>
Referenced to: <u>PVE</u> Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other Check Valve
 Start Purge Time: 0945 Flow Rate: 200ml/min Pump Depth:

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to water
0948	23.36	6.46	1320	287	1.72	-94.8	600	29.93
0951	23.38	6.49	1345	113	1.58	-85.3	1200	29.93
0954	23.38	6.50	1361	91	1.32	-82.1	1800	29.93
0957	23.40	6.54	1377	84	1.04	-80.4	2400	29.93
1000	23.41	6.61	1384	62	0.86	-77.9	3000	29.93
1003	23.41	6.63	1389	59	0.82	-75.3	3600	29.93

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>3600mL</u>
Sampling Time: <u>1004</u>	Sampling Date: <u>10/18/12</u>
Sample I.D.: <u>GMW-4</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>TPHg</u> <u>TPHfp</u> <u>VOC's</u> <u>MTBE</u>	Other: <u>See C.O.C</u>
Equipment Blank I.D.: <u> </u> @ <u> </u> Time	Duplicate I.D.: <u> </u>

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>121015-MEI</u>	Client: <u>KMEP</u>
Sampler: <u>Matt E.</u>	Start Date: <u>10-17-12</u>
Well I.D.: <u>Mw-9</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: <u>51.88</u>	Depth to Water: Pre: <u>31.30</u> Post: <u>31.43</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>eve</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: 1400 Flow Rate: 300 mL/min Pump Depth: 46'

Time	Temp. (<u>C</u> or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to water
<u>1413</u>	<u>28.0</u>	<u>6.66</u>	<u>1921</u>	<u>105</u>	<u>1.51</u>	<u>-150.3</u>	<u>500</u>	<u>31.39</u>
<u>1416</u>	<u>27.0</u>	<u>6.62</u>	<u>1876</u>	<u>81</u>	<u>0.65</u>	<u>-140.0</u>	<u>1400</u>	<u>31.41</u>
<u>1419</u>	<u>27.5</u>	<u>6.55</u>	<u>1889</u>	<u>72</u>	<u>0.49</u>	<u>-145.1</u>	<u>2300</u>	<u>31.42</u>
<u>1422</u>	<u>27.6</u>	<u>6.41</u>	<u>1890</u>	<u>59</u>	<u>0.35</u>	<u>-144.3</u>	<u>3200</u>	<u>31.42</u>
<u>1425</u>	<u>27.6</u>	<u>6.40</u>	<u>1890</u>	<u>48</u>	<u>0.34</u>	<u>-144.0</u>	<u>4100</u>	<u>31.42</u>
<u>1428</u>	<u>27.6</u>	<u>6.43</u>	<u>1891</u>	<u>47</u>	<u>0.32</u>	<u>-146.1</u>	<u>5000</u>	<u>31.42</u>

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: <u>5000 mL</u>
Sampling Time: <u>1430</u>	Sampling Date: <u>10-17-12</u>
Sample I.D.: <u>Mw-9</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>TPHg TPHip VOC's MTBE</u>	Other: <u>See C.O.E</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 12 121015-ME1	Client: KMEP
Sampler: ER	Start Date: 10/18/12
Well I.D.: P2-5	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 37.50	Depth to Water: Pre: 28.25 Post: 28.33
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: 0838 Flow Rate: 500ml/min Pump Depth: 34'

Time	Temp. (°C or °F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0841	21.81	6.53	2348	69	0.22	-127.0	1500	28.31
0844	22.23	6.54	2353	41	0.16	-119.5	3000	28.33
0847	22.30	6.58	2337	31	0.16	-117.4	4500	28.33
0850	22.37	6.58	2329	28	0.19	-120.2	6000	28.33
0853	22.36	6.59	2317	26	0.28	-122.0	7500	28.33

Did well dewater? Yes (No)	Amount actually evacuated: 7500 mL
Sampling Time: 0854	Sampling Date: 10/18/12
Sample I.D.: P2-5	Laboratory: Alpha Analytical
Analyzed for: (TPHg) TPHfp (VOC's) MTBE	Other: See C.O.C
Equipment Blank I.D.: @ Time	Duplicate I.D.: DUP-6

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015 - ME1	Client: KMEP
Sampler: ER	Start Date: 10/18/12
Well I.D.: GWR-1	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 44.83	Depth to Water: Pre: 29.21 Post: 29.40
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: 0953 Flow Rate: 500mL/min Pump Depth: 40'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0956	23.29	6.75	1942	37	0.30	-114.2	1500	29.30
0959	23.68	6.76	1978	30	0.28	-112.2	3000	29.33
1002	23.75	6.79	2027	19	0.26	-109.0	4500	29.36
1005	23.81	6.81	2045	18	0.25	-109.5	6000	29.38
1008	23.84	6.81	2058	16	0.25	-108.3	7500	29.40

Did well dewater? Yes No Amount actually evacuated: 7500mL

Sampling Time: 1009 Sampling Date: 10/18/12

Sample I.D.: GWR-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 #: <u>121015-ME1</u>	Client: <u>KMEP</u>
Sampler: <u>Matt E.</u>	Start Date: <u>10-18-12</u>
Well I.D.: <u>MW-SF-1</u>	Well Diameter: 2 3 4 <u>6</u> 8 _____
Total Well Depth: <u>50.51</u>	Depth to Water: Pre: <u>32.23</u> Post: <u>32.33</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVE</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: 0937 Flow Rate: 400 mL/min Pump Depth: 45'

Time	Temp. (C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ML)	Depth to water
0939	24.8	6.56	1611	112	1.78	-192.3	500	32.27
0942	24.7	6.76	1719	78	0.71	-220.3	1700	32.30
0945	25.4	6.89	1760	52	0.33	-300.3	2900	32.30
0948	25.9	6.90	1806	20	0.29	-308.7	4100	32.32
0951	26.0	6.90	1822	13	0.30	-312.5	5300	32.32
0954	26.4	6.90	1821	12	0.31	-319.0	6500	32.32
0957	26.5	6.91	1823	9	0.30	-320.3	7700	32.32

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>7700 mL</u>
Sampling Time: <u>1000</u>	Sampling Date: <u>10-18-12</u>
Sample I.D.: <u>MW-SF-1</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>TPHg TPHfp VOC's MTBE</u>	Order: <u>See CO.C</u>
Equipment Blank I.D.: <u>EB-1</u> @ <u>1010</u> Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-ME1	Client: KMEP
Sampler: H H	Start Date: 10-18-12
Well I.D.: GMW-0-14	Well Diameter: 2 3 ④ 6 8
Total Well Depth: 49.72	Depth to Water: Pre: 27.96 Post: 28.05
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: 1411 Flow Rate: 300 $\frac{mL}{min}$ Pump Depth: 45'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to water
1413	23.1	6.96	2149	59	1.13	-166.9	600	27.99
1416	24.0	6.85	2133	25	0.86	-170.4	1500	28.01
1419	23.2	6.81	2108	22	0.79	-172.2	2400	28.03
1422	23.1	6.80	2105	21	0.54	-183.5	3300	28.04
1425	23.1	6.80	2106	18	0.53	-185.0	4200	28.04
1428	23.2	6.77	2101	17	0.50	-188.1	5100	28.05

Did well dewater? Yes <input checked="" type="checkbox"/>	Amount actually evacuated: 5100
Sampling Time: 1430	Sampling Date: 10-18-12
Sample I.D.: GMW-0-14	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other: See C.O.C
Equipment Blank I.D.: @ _____	Duplicate I.D.: DUP-7

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>121015-ME1</u>	Client: <u>KMEP</u>
Sampler: <u>Matt E.</u>	Start Date: <u>10-18-12</u>
Well I.D.: <u>GMW-36</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: <u>Pump</u>	Depth to Water: Pre: <u>32.11</u> Post: <u>33.23</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 Port
 Start Purge Time: 1218 Flow Rate: 350 mL/min Pump Depth: _____

Time	Temp. (<u>C</u> or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to water
<u>1220</u>	<u>26.0</u>	<u>7.02</u>	<u>2289</u>	<u>154</u>	<u>1.55</u>	<u>-181.0</u>	<u>500</u>	<u>33.22</u>
<u>1223</u>	<u>24.8</u>	<u>6.74</u>	<u>2260</u>	<u>40</u>	<u>0.88</u>	<u>-199.5</u>	<u>1550</u>	<u>33.24</u>
<u>1226</u>	<u>24.3</u>	<u>6.71</u>	<u>2251</u>	<u>29</u>	<u>0.75</u>	<u>-201.3</u>	<u>2600</u>	<u>33.24</u>
<u>1229</u>	<u>24.3</u>	<u>6.71</u>	<u>2250</u>	<u>34</u>	<u>0.74</u>	<u>-202.5</u>	<u>3650</u>	<u>33.23</u>
<u>1232</u>	<u>24.2</u>	<u>6.70</u>	<u>2247</u>	<u>35</u>	<u>0.72</u>	<u>-206.0</u>	<u>4700</u>	<u>33.23</u>

Did well dewater? Yes <input checked="" type="checkbox"/>	Amount actually evacuated: <u>4700 mL</u>
Sampling Time: <u>1235</u>	Sampling Date: <u>10-18-12</u>
Sample I.D.: <u>GMW-36</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>TPHg TPHfp VOC's MTBE</u>	Other: <u>See C.O.C</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>121015-MEL</u>	Client: <u>KMEP</u>
Sampler: <u>Matte.</u>	Start Date: <u>10-18-12</u>
Well I.D.: <u>GMW-0-15</u>	Well Diameter: 2 3 4 6 8 <u>12</u>
Total Well Depth: <u>Pump</u>	Depth to Water: Pre: <u>31.82</u> Post: <u>31.83</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 Port
 Start Purge Time: 1253 Flow Rate: 500 mL/min Pump Depth: -

Time	Temp. (<u>C</u> or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to water
1252	23.4	7.12	2327	18	3.48	-98.1	500	31.80
1255	22.0	6.50	2296	10	2.16	-79.5	2060	31.83
1258	21.8	6.48	2291	7	2.12	-75.1	3500	31.83
1301	21.8	6.47	2285	8	2.11	-75.0	5000	31.83
1304	21.6	6.44	2284	7	2.08	-74.5	6500	31.82

Did well dewater? Yes No Amount actually evacuated: 6500 mL

Sampling Time: 1310 Sampling Date: 10-18-12

Sample I.D.: GMW-0-15 Laboratory: Alpha Analytical

Analyzed for: TPHg TPHfp VOC's MTBE Other: See e.o.r

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015 -	Client: KMEP
Sampler: EB	Start Date: 10/19/12
Well I.D.: MW-SF-44 EB	Well Diameter: 2 3 ④ 6 8
Total Well Depth: 44.06	Depth to Water: Pre: 34.04 Post: 34.16
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: 1417 Flow Rate: 200 mL/min Pump Depth: 39'

Time	Temp. (°C or °F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1420	24.17	6.69	1438	282	2.10	-81.4	600	34.16
1423	24.14	6.77	1436	104	1.98	-81.1	1200	34.16
1426	24.11	6.76	1439	101	1.99	-80.9	1800	34.16
1429	24.10	6.77	1437	100	1.98	-81.0	2400	34.16
1432	24.10	6.78	1434	99	1.98	-79.6	3000	34.16

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 3000
Sampling Time: 1435	Sampling Date: 10/19/12
Sample I.D.: MW-SF-44 EB	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other: SEE C.O.C.
Equipment Blank I.D.: EB-2 @ Time 1450	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015 - ME1	Client: KMEP
Sampler: ER	Start Date: 10/19/12
Well I.D.: 6MW- 20 -20	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: —	Depth to Water: Pre: 32.97 33.08 Post: 33.19
Depth to Free Product: 33.83 32.94	Thickness of Free Product (feet): 0.02 0.03
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: Check Valve

Start Purge Time: 1346 Flow Rate: 200 mL/Min Pump Depth: —

Time	Temp. (°C or °F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1349	25.38	6.64	2263	109	3.01	-47.6	600	33.19
1352	25.41	6.60	2271	78	2.55	-50.2	1200	33.19
1355	25.41	6.58	2280	61	2.43	-55.3	1800	33.19
1358	25.40	6.56	2287	54	2.40	-57.6	2400	33.19
1401	25.40	6.55	2293	50	2.38	-59.8	3000	33.19
1404	25.42	6.54	2298	50	2.37	-61.1	3600	33.19

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 3600 mL
Sampling Time: 1405	Sampling Date: 10/19/12
Sample I.D.: 6MW- 20 -20	Laboratory: Alpha Analytical
Analyzed for: TPHg <input checked="" type="checkbox"/> TPHf <input checked="" type="checkbox"/> VOCs <input checked="" type="checkbox"/> MTBE	Other: See C.O.R
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015-ME1	Client: KMEP
Sampler: EM	Start Date: 10/19/12
Well I.D.: GMW-0-21	Well Diameter: 2 3 (4) 6 8
Total Well Depth: Post	Depth to Water: Pre: Post 32.50 Post: 32.56
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
 Sampling Method: Dedicated Tubing New Tubing Other: Ext Post.
 Start Purge Time: 1534 Flow Rate: 200 mL/min Pump Depth: _____

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to water
1537	24.98	6.69	2081	680	4.65	-72.5	600	—
1540	25.02	6.70	2109	211	3.65	-79.1	1200	—
1543	25.00	6.72	2122	108	3.61	-82.3	1800	—
1546	25.03	6.73	2135	97	3.52	-84.4	2400	—
1549	25.02	6.74	2142	90	3.49	-86.5	3000	—

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 3000 mL
Sampling Time: 1530 1550	Sampling Date: 10/19/12
Sample I.D.: GMW-0-21	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 #: 121015-ME1	Client: KMEP
Sampler: ER	Start Date: 10/19/12
Well I.D.: GHW-0-23	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 29.15	Depth to Water: Pre: 26.48 Post: 26.53
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: ~~Disposable B-1~~ ER
 Start Purge Time: 1150 Flow Rate: 100 mL/min ~~500 mL/min~~ Pump Depth: 29'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
Not enough water to Purge								
1157	24.43	6.83	2476	734	1.93	-67.4	700 mL	26.50
1200	24.45	6.80	2012	690	1.42	-68.4	1000	26.52
1203	24.78	6.80	1947	694	1.38	-68.2	1300	26.54
1206	25.64	6.79	1876	680	1.32	-67.9	1600	26.53

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 1660 mL
Sampling Time: 1206	Sampling Date: 10/19/12
Sample I.D.: GHW-0-23	Laboratory: Alpha Analytical
Analyzed for: <u>TPHg</u> TPHfp <u>VOC's</u> MTBE	Other: See C.O.C
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>121015 - ME1</u>	Client: <u>KMEP</u>
Sampler: <u>EC</u>	Start Date: <u>10/18/12</u>
Well I.D.: <u>MW-18 (MID)</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth: <u>65.53</u>	Depth to Water: Pre: <u>33.41</u> Post: <u>33.53</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: 1134 Flow Rate: 500 mL/min Pump Depth: 60'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1137	23.49	6.75	1752	20	1.25	-77.8	1500mL	33.47
1140	24.10	6.78	1791	13	0.98	-78.9	3000	33.50
1143	24.34	6.79	1821	10	0.85	-76.1	4500	33.51
1146	24.49	6.81	1836	8	0.83	-76.8	6000	33.53
1149	24.49	6.80	1850	7	0.80	-80.3	7500	33.53

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: <u>7500mL</u>
Sampling Time: <u>1150</u>	Sampling Date: <u>10/18/12</u>
Sample I.D.: <u>MW-18 (MID)</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>TPHg</u> <u>TPHfp</u> <u>VOC's</u> <u>MTBE</u>	Order: <u>See C.O.C</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>121015-ME1</u>	Client: <u>KMEP</u>
Sampler: <u>Matt E.</u>	Start Date: <u>10-18-12</u>
Well I.D.: <u>MW-SF-11</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: <u>43.53</u>	Depth to Water: Pre: <u>33.28</u> Post: <u>33.32</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: 1043 Flow Rate: 400 mL/min Pump Depth: 38'

Time	Temp. (C or °F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1045	23.9	7.07	2667	31	2.07	-154.5	500	33.31
1048	23.6	6.85	2764	27	0.69	-149.8	1700	33.31
1051	24.5	6.90	2814	19	0.66	-158.9	2900	33.31
1054	24.9	6.93	2860	15	0.63	-171.5	4100	33.32
1057	25.4	6.95	2891	7	0.59	-175.5	5300	33.32
1100	25.5	6.95	2993	10	0.61	178.2	6500	33.32

Did well dewater? Yes No Amount actually evacuated: 6500 mL

Sampling Time: 1105 Sampling Date: 10-18-12

Sample I.D.: MW-SF-11 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 #: 121015 - ME1	Client: KMEP
Sampler: ER	Start Date: 10/19/12
Well I.D.: GMW-0-12	Well Diameter: 2 3 (4) 6 8
Total Well Depth: —	Depth to Water: Pre: 25.48 Post: 25.52
Depth to Free Product: 25.44	Thickness of Free Product (feet): 0.03
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 Check Valve
 Start Purge Time: 1259 Flow Rate: 200 mL/Min Pump Depth: —

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to water
1302	23.38	6.61	2736	431	1.41	-68.2	600	25.48
1305	24.02	6.60	2781	375	1.82	-70.4	1200	25.49
1308	24.08	6.57	2740	210	1.64	-72.6	1800	25.52
1311	24.12	6.55	2736	109	1.52	-73.7	2400	25.52
1314	24.18	6.53	2718	96	1.48	-75.1	3000	25.52

Did well dewater? Yes <input type="checkbox"/> <input checked="" type="checkbox"/> No	Amount actually evacuated: 3000 mL
Sampling Time: 1315	Sampling Date: 10/19/12
Sample I.D.: GMW-0-12	Laboratory: Alpha Analytical
Analyzed for: <u>TPHg</u> <u>TPHfp</u> <u>VOC's</u> MTBE	Other: <u>See CO-C</u>
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>121015-ME1</u>	Client: <u>KMEP</u>
Sampler: <u>ER</u>	Start Date: <u>10/19/12</u>
Well I.D.: <u>MW-0-2</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth: _____	Depth to Water: Pre: <u>POTTER</u> ²⁶⁸⁹ Post: _____
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 Ext post
 Start Purge Time: _____ Flow Rate: _____ Pump Depth: _____

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water

		<u>well not producing, no sample</u>					<u>Taken</u>	

Did well dewater? Yes No	Amount actually evacuated: _____
Sampling Time: _____	Sampling Date: _____
Sample I.D.: _____	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>TPHg</u> <u>TPHfp</u> <u>VOC's</u> <u>MTBE</u>	Other: _____
Equipment Blank I.D.: _____ @ _____ _{time}	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015 - ME1	Client: KMEP
Sampler: ER	Start Date: 10/19/12
Well I.D.: MW-0-1	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 32.70	Depth to Water: Pre: 28.94 Post: 28.97
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: Original Bail~~
 Start Purge Time: _____ Flow Rate: 200 ml/min Pump Depth: 32'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
Insufficient water to purge								
14 21	23.65	6.74	2102	207	2.32	-74.2	800	28.95
14 24	23.67	6.74	2096	212	1.67	-50.7	1400	28.95
14 27	23.68	6.74	2110	143	1.62	-50.2	2000	28.95
14 30 23.70 ER	23.74	6.75	2040	137	1.59	-49.9	2600	28.97

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 2600
Sampling Time: 1430	Sampling Date: 10/19/12
Sample I.D.: MW-0-1	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other: See C.O.C
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121015 -	Client: KMEP
Sampler: EB	Start Date: 10/19/12
Well I.D.: GMW-10	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 42.40	Depth to Water: Pre: 29.15 Post: 29.20
Depth to Free Product: 29.02	Thickness of Free Product (feet): 0.13
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: CHECK VALVE
 Start Purge Time: 1334 Flow Rate: 500 mL/MIN Pump Depth: 13

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1337	24.87	6.83	1897	91	1.49	-84.5	1500	29.19
1340	24.87	6.81	1894	56	1.51	-84.6	3000	29.19
1343	24.5	6.80	1890	37	1.51	-84.4	4500	29.20
1346	24.6	6.80	1889	38	1.50	-83.9	6000	29.20
1349	24.6	6.79	1886	38	1.51	-83.8	7500	29.20

Did well dewater? Yes <input checked="" type="radio"/> No <input type="radio"/>	Amount actually evacuated: 7500
Sampling Time: 1350	Sampling Date: 10/19/12
Sample I.D.: GMW-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 #: 121015-ME1	Client: KMEP
Sampler: Matt E.	Start Date: 10-18-12
Well I.D.: Mn-SF-14	Well Diameter: 2 3 Φ 6 8 _____
Total Well Depth: Pump	Depth to Water: Pre: ^{30.02} NO PORT Post: 30.12
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 Port

Start Purge Time: 1145 Flow Rate: 400 mL/min Pump Depth: _____

Time	Temp. (C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to water
1146	23.60	7.31	2400	12	3.01	-140.7	500	30.10
1149	22.57	7.24	2377	7	2.55	-138.1	1700	30.13
1152	22.57	7.21	2360	7	2.51	-138.0	2900	30.12
1155	22.53	7.20	2356	6	2.46	-136.8	4100	30.12

Did well dewater? Yes No Amount actually evacuated: 4100 mL

Sampling Time: 1200 Sampling Date: 10-18-12

Sample I.D.: Mn-SF-14 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 #: 121015 - ME1	Client: KMEP
Sampler: ER	Start Date: 10/18/12
Well I.D.: GHW-22	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 62.34	Depth to Water: Pre: 31.05 Post: 31.19
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: 1249 Flow Rate: 500 mL/min Pump Depth: 57'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1252	23.10	6.61	2951	34	0.23	-83.8	1500	31.15
1255	23.67	6.61	2924	21	0.15	-78.7	3000	31.17
1258	23.79	6.63	2884	18	0.14	-76.4	4500	31.18
1301	23.84	6.64	2870	17	0.12	-74.7	6000	31.19
1304	23.88	6.64	2859	15	0.12	-73.1	7500	31.19

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 7500 mL
Sampling Time: 1305	Sampling Date: 10/18/12
Sample I.D.: GHW-22	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOCs MTBE	Other: See C.O.C
Equipment Blank I.D.: EB-2 @ Time 1315	Duplicate I.D.: EB-2 @ ER

BLAINE

TECH SERVICES, INC.

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 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB

Alpha Analytical COC 1 of 1

CHAIN OF CUSTODY

CLIENT

Kinder Morgan

SITE

DFSP Norwalk

15306 Norwalk Blvd, Norwalk

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

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-1	10/15/12	0855	AQ	5	HCL	VOAS	X	X									
Exp-2	↓	0951	↓	↓	↓	↓	X	X									
Exp-3	↓	1045	↓	↓	↓	↓	X	X									
TB-2	↓	1100	↓	3	↓	↓		X									

SAMPLING COMPLETED: DATE 10/15/12 TIME 1110
 SAMPLING PERFORMED BY: *Eric Marshall*
 RESULTS NEEDED NO LATER THAN: Standard

RELEASED BY: *Eric Marshall* TIME 1610 RECEIVED BY: Nicole (sc) DATE 10/15/12 TIME 1610

RELEASED BY: Nicole (sc) TIME 1330 RECEIVED BY: DATE 10/16/12 TIME 1330

RELEASED BY: *[Signature]* TIME 1330 RECEIVED BY: DATE TIME

SHIPPED VIA: TIME SENT COOLER #

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 SAN JOSE, CALIFORNIA 95112-1105
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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												
EXP-5	10-16-12	0756	AQ	5	HCL	VOLS	X	X										
WCL-3		0835		5			X	X										
WCL-13		0914		5			X	X										
GMW-0-24		1010		5			X	X										
GMW-0-17		1116		5			X	X										
GMW-0-1		0755		5			X	X										
GMW-0-2		0835		5			X	X										
GMW-0-3		0910		5			X	X										
GMW-0-4		0950		5			X	X										
GMW-0-4(MTD)		1035		5			X	X										

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED NO LATER THAN	Standard
	10-16-12	1500	Matt Eitelre Erick Randall		
RELEASED BY	TIME	RECEIVED BY	DATE	TIME	
	1530	Nicole (SC)	10/16/12	1530	
RELEASED BY	TIME	RECEIVED BY	DATE	TIME	
Nicole (SC)	1330		10/17/12	1330	
RELEASED BY	TIME	RECEIVED BY	DATE	TIME	
	1330				
SHIPPED VIA	TIME SENT	COOLER #			

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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												
GMW-0.5	10-16-12	1120	AQ	5	HCL	VOR?	X	X										
GMW-0.8		1230		5			X	X										
GMW-0.9		1207		5			X	X										
GMW-0.19		1315		5			X	X										
GMW-13		1405		5			X	X										
GMW-37		1325		5			X	X										
GMW-SF-7		1446		5			X	X										
GMW-SF-8		1404		5			X	X										
HL-2		1440		5			X	X										
Dup.1				5			X	X										

SAMPLING COMPLETED DATE 10-16-12 TIME 1500 SAMPLING PERFORMED BY Matt Eferle Erick Randall RESULTS NEEDED NO LATER THAN Standard

RELEASED BY [Signature] TIME 1530 RECEIVED BY Nicole (sc) DATE 10/16/12 TIME 1530

RELEASED BY Nicole (sc) TIME 1330 RECEIVED BY [Signature] DATE 10/17/12 TIME 1330

RELEASED BY [Signature] TIME 1330 RECEIVED BY [Signature] DATE [] TIME []

SHIPPED VIA TIME SENT COOLER #

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CONDUCT ANALYSIS TO DETECT

LAB

Alpha Analytical COC 3 of 3

Billing Information:
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 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															
EB-1	10-16-12	1400	AQ	5	HCL	VOAS	X	X													
EB-2		1015		5			X	X													
TB-1		0800		3				X													
TB-2		0800		3				X													

SAMPLING COMPLETED: DATE 10/16/12 TIME 1500
 SAMPLING PERFORMED BY: *Matt Eiferle, Erick Randall*
 RESULTS NEEDED NO LATER THAN: Standard

RELEASED BY: *[Signature]* TIME 1530 RECEIVED BY: *Nicole (SC)* DATE 10/16/12 TIME 1530

RELEASED BY: *Nicole (SC)* TIME 1730 RECEIVED BY: *[Signature]* DATE 10/17/12 TIME 1330

RELEASED BY: *[Signature]* TIME 1330 RECEIVED BY: *[Signature]* DATE [] TIME []

SHIPPED VIA: TIME SENT [] COOLER # []

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CONDUCT ANALYSIS TO DETECT

LAB

Alpha Analytical COC 1 of 3

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 Orange CA 95112

Kinder Morgan Norwalk
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 CH2MHILL
 1000 Wilshire Blvd 21st floor
 Los Angeles, CA 90017

CHAIN OF CUSTODY

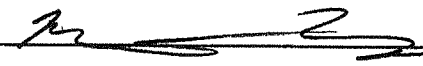
CLIENT
 Kinder Morgan

SITE
 DFSP Norwalk

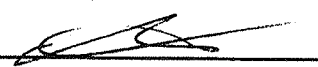
15306 Norwalk Blvd, Norwalk

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												
PW-2	10-17-12	0810	AQ	5	HCL	VOAS	X	X										CHH12101904-01
GMW-0-16		0855		5			X	X										-02
GMW-38		0935		5			X	X										-03
MW-6		1008		5			X	X										-04
MW-7		0839		5			X	X										-05
MW-19 MID		0807		5			X	X										-06
MW-20 MID		0938		5			X	X										-07
WW-7		1100		5			X	X										-08
MW-8		1213		5			X	X										-09
GMW-39		1020		5			X	X										-10

SAMPLING COMPLETED DATE 10-17-12 TIME 1500 SAMPLING PERFORMED BY Matt Eickel RESULTS NEEDED NO LATER THAN Standard

RELEASED BY  TIME 1500 RECEIVED BY Nicole (sc) DATE 10/17/12 TIME 1500

RELEASED BY Nicole (sc) TIME 1510 RECEIVED BY  DATE 10/18/12 TIME 1510

RELEASED BY  TIME 1510 RECEIVED BY Campbell Adcox DATE 10-19-12 TIME 11:12

SHIPPED VIA TIME SENT COOLER #

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CONDUCT ANALYSIS TO DETECT

LAB

Alpha Analytical COC 2 of 3

CHAIN OF CUSTODY

CLIENT **Kinder Morgan**

SITE **DFSP Norwalk**


15306 Norwalk Blvd, Norwalk


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

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-SF-9	10.17.12	1040	AQ	5	HCL	VORS	X	X										-11
GMW-SF-10		1130		5			X	X										-12
GMW-14		1335		5			X	X										-13
PZ-10		1325		5			X	X										-14
GMW-1		1420		5			X	X										-15
MW-9		1430		5			X	X										-16
Dup-2		-		5			X	X										-17
Dup-3		-		5			X	X										-18
EB-1		1345		5			X	X										-19
EB-2		1335		5			X	X										-20

SAMPLING COMPLETED DATE **10/17/12** TIME **1500** SAMPLING PERFORMED BY **Matt Eiferle** RESULTS NEEDED NO LATER THAN **Standard**

RELEASED BY  TIME **1500** RECEIVED BY **Nicole (sc)** DATE **10/17/12** TIME **1500**

RELEASED BY **Nicole (sc)** TIME **1510** RECEIVED BY  DATE **10/18/12** TIME **1510**

RELEASED BY  TIME **1510** RECEIVED BY **Cynthia Adcox** DATE **10-19-12** TIME **11:12**

SHIPPED VIA TIME SENT COOLER #

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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
TB-1	10-17-12	0800	AQ	3	HCL	VOCs	X											21
TB-2	10-17-12	0800	AQ	3	HCL	VOCs	X											22

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED
	10-17-12	1500	Matt Eiferle	NO LATER THAN Standard
RELEASED BY	TIME	RECEIVED BY	DATE	TIME
Matt	1500	NICOR(SC)	10/17/12	1500
RELEASED BY	TIME	RECEIVED BY	DATE	TIME
NICOR(SC)	1510	[Signature]	10/18/12	1510
RELEASED BY	TIME	RECEIVED BY	DATE	TIME
[Signature]	1510	Elizabeth Adcox	10-19-12	11:12
SHIPPED VIA	TIME SENT	COOLER #		

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 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 AC= Water	CONTAINERS			TPHg, TPHd (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)							ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
				#	Preservation	Type												
Mw-12	10-18-12	0905	AG	5	HCL	vocs	X	X										
Gm-27		0820		5			X	X										
P2-5		0854		5			X	X										
GWR-1		1009		5			X	X										
BW-SF-1		1000		5			X	X										
Gm-36		1235		5			X	X										
Gm-0-14		1430		5			X	X										
Gm-0-15		1310		5			X	X										
Mw-18 (MED)		1150		5			X	X										
Mw-SF-11		1105		5			X	X										

SAMPLING COMPLETED DATE 10-18-12 TIME 1500 SAMPLING PERFORMED BY Matt E. Fure RESULTS NEEDED NO LATER THAN Standard

RELEASED BY [Signature] TIME 1600 RECEIVED BY Nicole (sc) DATE 10/18/12 TIME 1600

RELEASED BY Nicole (sc) TIME 1710 RECEIVED BY [Signature] DATE 10/19/12 TIME 1710

RELEASED BY [Signature] TIME 1710 RECEIVED BY [Signature] DATE [] TIME []

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 2

CHAIN OF CUSTODY

IDENTIFIED: **Kinder Morgan**

LOCATION: **DFSP Norwalk**

ADDRESS: **15306 Norwalk Blvd, Norwalk**

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

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
Im-3F-14	10-18-12	1200	AQ	5	HCL	VOLS	X	X										
Mw-22		1305		5			X	X										
Dup-4		-		5			X	X										
Dup-6		-		5			X	X										
Dup-7		-		5			X	X										
EB-1		1010		5			X	X										
EB-2		1315		5			X	X										
TB-1		0800		32				X										

AMPLING COMPLETED: DATE 10-18-12 TIME 1500 SAMPLING PERFORMED BY Matt F. Ferk RESULTS NEEDED NO LATER THAN Standard

LEASED BY [Signature] TIME 1600 RECEIVED BY Nicole (sc) DATE 10/18/12 TIME 1600

LEASED BY Nicole (sc) TIME [] RECEIVED BY [] DATE [] TIME []

LEASED BY [] TIME [] RECEIVED BY [] DATE [] TIME []

SHIPPED VIA [] TIME SENT [] COOLER # []

BLAINE

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1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
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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											
GMW-0-21	10/19/12	1550	AQ	5	HCL	VOA	X	X									
MW-0-1		1430					X	X									
GMW-0-20		1405					X	X									
GMW-0-12		1315					X	X									
GMW-0-23		1206					X	X									
GMW-0-10		1100					X	X									
GMW-4		1004					X	X									
MW-15		0830					X	X									
GMW GMW-10		1350					X	X									
MW-SF-4		1435					X	X									

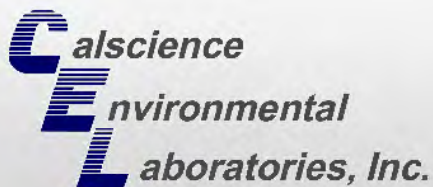
SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	Eric Randall	RESULTS NEEDED NO LATER THAN	Standard			
RELEASED BY	Eric Randall	TIME	1705	RECEIVED BY	Nicole (SC)	DATE	10/19/12	TIME	1705
RELEASED BY	Nicole (SC)	TIME	1710	RECEIVED BY		DATE	10/19/12	TIME	1710
RELEASED BY		TIME	1710	RECEIVED BY		DATE		TIME	
SHIPPED VIA		TIME SENT		COOLER #					

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME <i>KNEP Norwalk</i>				PROJECT NUMBER <i>121015-ME1</i>			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP. 	INITIALS
<i>YSI 556</i>	<i>07H102077</i>	<i>10-16-12 @ 0715</i>	<i>D.O. 10.0 %</i>	<i>10.0</i>	<i>Yes</i>	<i>18.5</i>	<i>ME</i>
		<i>@ 0720</i>	<i>PH 7.0 10.0 4.0</i>	<i>7.0 10.0 4.0</i>	<i>Yes</i>	<i>22.4</i>	<i>ME</i>
		<i>@ 0725</i>	<i>Cond. 3900</i>	<i>3900</i>	<i>Yes</i>	<i>23.6</i>	<i>ME</i>
		<i>@ 0728</i>	<i>ORP 232.0</i>	<i>232.0</i>	<i>Yes</i>	<i>24.0</i>	<i>ME</i>
<i>YSI 556</i>	<i>07H102077</i>	<i>10-17-12 @ 0730</i>	<i>D.O. 10.0 %</i>	<i>10.0</i>	<i>Yes</i>	<i>15.8</i>	<i>ME</i>
		<i>@ 0735</i>	<i>PH 7.0 10.0 4.0</i>	<i>7.0 10.0 4.0</i>	<i>Yes</i>	<i>22.0</i>	<i>ME</i>
		<i>@ 0736</i>	<i>Cond. 3900</i>	<i>3900</i>	<i>Yes</i>	<i>23.0</i>	<i>ME</i>
		<i>@ 0738</i>	<i>ORP 234.0</i>	<i>234.0</i>	<i>Yes</i>	<i>23.0</i>	<i>ME</i>
<i>YSI 556</i>	<i>07H102077</i>	<i>10-18-12 @ 0730</i>	<i>D.O. 10.0 %</i>	<i>10.0</i>	<i>Yes</i>	<i>20.7</i>	<i>ME</i>
		<i>@ 0735</i>	<i>PH: 7.0 10.0 4.0</i>	<i>7.0 10.0 4.0</i>	<i>Yes</i>	<i>24.4</i>	<i>ME</i>
		<i>@ 0738</i>	<i>Cond. 3900</i>	<i>3900</i>	<i>Yes</i>	<i>24.5</i>	<i>ME</i>
		<i>@ 0744</i>	<i>ORP 231.0</i>	<i>231.0</i>	<i>Yes</i>	<i>25.0</i>	<i>ME</i>

APPENDIX C

**Laboratory Analytical Reports and Chain-of-Custody Documents
July 2012 Sentry Event**



CALSCIENCE

WORK ORDER NUMBER: 12-07-0442

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Parsons Government Services, Inc.

Client Project Name: DFSP NORWALK GWM / 746442

Attention: Mary Lucas
100 West Walnut Street
Pasadena, CA 91124-0002

Approved for release on 07/17/2012 by:
Ranjit Clarke
Project Manager

ResultLink ▶

Email your PM ▶



Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any litigation which may arise.





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Work Order Number: 12-07-0442

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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/10/12
Work Order No: 12-07-0442
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM / 746442

Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EXP-1	12-07-0442-1-G	07/09/12 08:09	Aqueous	GC 47	07/12/12	07/13/12 03:41	120712B07

Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	104	68-140			

EXP-2	12-07-0442-2-G	07/09/12 08:47	Aqueous	GC 47	07/12/12	07/13/12 03:56	120712B07
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	210	100	1	HD	ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	115	68-140			

EXP-3	12-07-0442-3-G	07/09/12 09:22	Aqueous	GC 47	07/12/12	07/13/12 04:11	120712B07
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	250	100	1	HD	ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	112	68-140			

GMW-57	12-07-0442-4-G	07/09/12 10:12	Aqueous	GC 47	07/12/12	07/13/12 04:26	120712B07
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	330	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	105	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/10/12
Work Order No: 12-07-0442
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM / 746442

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-63	12-07-0442-5-G	07/09/12 10:59	Aqueous	GC 47	07/12/12	07/13/12 04:41	120712B07

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	95	68-140			

GMW-64	12-07-0442-6-G	07/09/12 11:46	Aqueous	GC 47	07/12/12	07/13/12 04:56	120712B07
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	97	68-140			

GMW-65	12-07-0442-7-G	07/09/12 12:44	Aqueous	GC 47	07/12/12	07/13/12 05:11	120712B07
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	105	68-140			

MW-22 (MID)	12-07-0442-8-G	07/09/12 14:03	Aqueous	GC 47	07/12/12	07/13/12 05:27	120712B07
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	111	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/10/12
Work Order No: 12-07-0442
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM / 746442

Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-14	12-07-0442-9-G	07/09/12 14:45	Aqueous	GC 47	07/12/12	07/13/12 05:41	120712B07

Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	84	68-140			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW-13	12-07-0442-10-G	07/09/12 15:21	Aqueous	GC 47	07/12/12	07/13/12 05:56	120712B07

Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	99	68-140			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-15-334-1	N/A	Aqueous	GC 47	07/12/12	07/13/12 02:56	120712B07

Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	98	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/10/12
Work Order No: 12-07-0442
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM / 746442

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EXP-1	12-07-0442-1-E	07/09/12 08:09	Aqueous	GC 22	07/11/12	07/11/12 12:04	120711B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	84	38-134			

EXP-2	12-07-0442-2-D	07/09/12 08:47	Aqueous	GC 22	07/11/12	07/11/12 13:42	120711B01
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Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	89	38-134			

EXP-3	12-07-0442-3-D	07/09/12 09:22	Aqueous	GC 22	07/11/12	07/11/12 14:14	120711B01
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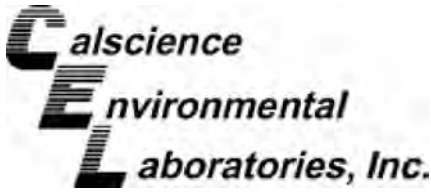
Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	86	38-134			

Method Blank	099-12-247-6,018	N/A	Aqueous	GC 22	07/11/12	07/11/12 10:27	120711B01
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Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	82	38-134			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents



Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/10/12
Work Order No: 12-07-0442
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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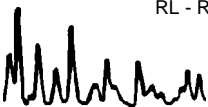
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EXP-1	12-07-0442-1-A	07/09/12 08:09	Aqueous	GC/MS XX	07/10/12	07/11/12 06:05	120710L02

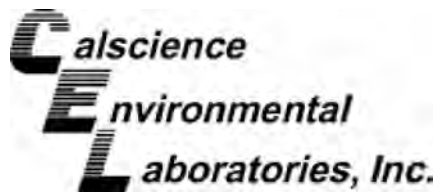
Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	95	80-120		Dibromofluoromethane	100	80-126	
1,2-Dichloroethane-d4	104	80-134		Toluene-d8	91	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/10/12
Work Order No: 12-07-0442
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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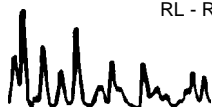
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EXP-2	12-07-0442-2-A	07/09/12 08:47	Aqueous	GC/MS XX	07/10/12	07/11/12 06:34	120710L02

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

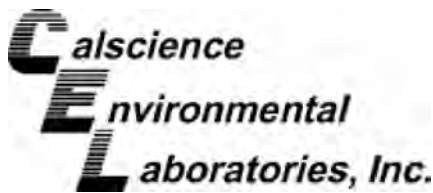
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	11	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	80-120		Dibromofluoromethane	98	80-126	
1,2-Dichloroethane-d4	102	80-134		Toluene-d8	94	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/10/12
Work Order No: 12-07-0442
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EXP-3	12-07-0442-3-B	07/09/12 09:22	Aqueous	GC/MS XX	07/11/12	07/11/12 21:54	120711L01

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

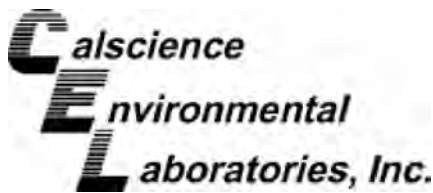
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	4.1	10	2.2	1	J	4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	9.5	10	4.6	1	J
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	95	80-120		Dibromofluoromethane	99	80-126	
1,2-Dichloroethane-d4	99	80-134		Toluene-d8	103	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/10/12
Work Order No: 12-07-0442
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-57	12-07-0442-4-B	07/09/12 10:12	Aqueous	GC/MS XX	07/11/12	07/12/12 03:47	120711L02

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

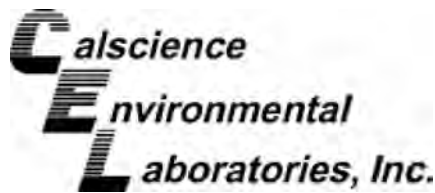
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	0.67	1.0	0.58	1	J
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	0.50	1.0	0.23	1	J	Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	0.30	1.0	0.28	1	J	Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	80-120		Dibromofluoromethane	99	80-126	
1,2-Dichloroethane-d4	99	80-134		Toluene-d8	103	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Return to Contents



Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/10/12
Work Order No: 12-07-0442
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-63	12-07-0442-5-B	07/09/12 10:59	Aqueous	GC/MS XX	07/11/12	07/12/12 04:17	120711L02

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

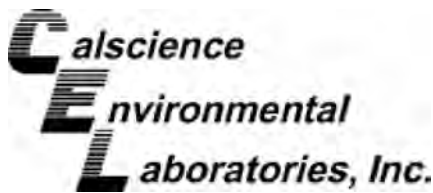
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	94	80-120		Dibromofluoromethane	99	80-126	
1,2-Dichloroethane-d4	98	80-134		Toluene-d8	102	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/10/12
Work Order No: 12-07-0442
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-64	12-07-0442-6-B	07/09/12 11:46	Aqueous	GC/MS XX	07/11/12	07/12/12 04:46	120711L02

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

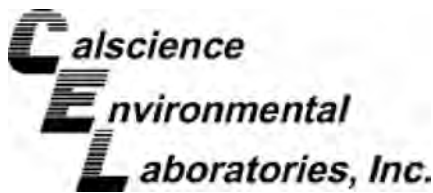
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	94	80-120		Dibromofluoromethane	98	80-126	
1,2-Dichloroethane-d4	98	80-134		Toluene-d8	102	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/10/12
Work Order No: 12-07-0442
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-65	12-07-0442-7-B	07/09/12 12:44	Aqueous	GC/MS XX	07/11/12	07/12/12 05:16	120711L02

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

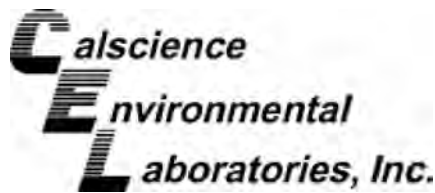
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	93	80-120		Dibromofluoromethane	99	80-126	
1,2-Dichloroethane-d4	102	80-134		Toluene-d8	101	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/10/12
Work Order No: 12-07-0442
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-22 (MID)	12-07-0442-8-A	07/09/12 14:03	Aqueous	GC/MS XX	07/11/12	07/12/12 05:45	120711L02

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

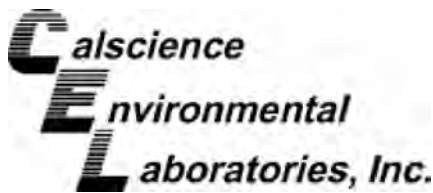
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	4.4	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	5.8	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	0.43	2.0	0.33	1	J
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	94	80-120		Dibromofluoromethane	97	80-126	
1,2-Dichloroethane-d4	100	80-134		Toluene-d8	102	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/10/12
Work Order No: 12-07-0442
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-14	12-07-0442-9-B	07/09/12 14:45	Aqueous	GC/MS XX	07/12/12	07/13/12 07:13	120712L03

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

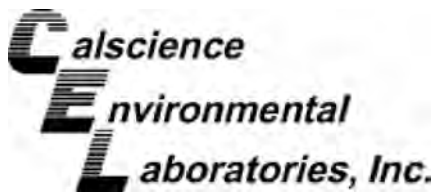
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	4.0	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	0.72	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	1.1	2.0	0.33	1	J
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	95	80-120		Dibromofluoromethane	100	80-126	
1,2-Dichloroethane-d4	100	80-134		Toluene-d8	91	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/10/12
Work Order No: 12-07-0442
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW-13	12-07-0442-10-A	07/09/12 15:21	Aqueous	GC/MS XX	07/11/12	07/12/12 06:44	120711L02

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

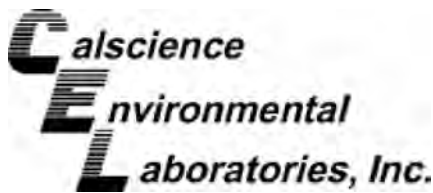
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	0.60	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	0.78	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	94	80-120		Dibromofluoromethane	97	80-126	
1,2-Dichloroethane-d4	101	80-134		Toluene-d8	101	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/10/12
Work Order No: 12-07-0442
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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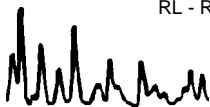
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-01	12-07-0442-11-A	07/09/12 07:34	Aqueous	GC/MS XX	07/11/12	07/12/12 01:20	120711L02

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

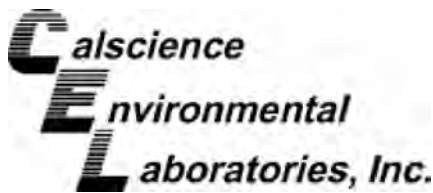
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	95	80-120		Dibromofluoromethane	98	80-126	
1,2-Dichloroethane-d4	97	80-134		Toluene-d8	104	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/10/12
Work Order No: 12-07-0442
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-8,231	N/A	Aqueous	GC/MS XX	07/10/12	07/11/12 00:41	120710L02

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

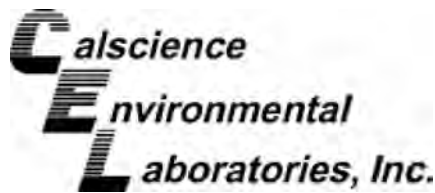
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	80-120		Dibromofluoromethane	97	80-126	
1,2-Dichloroethane-d4	99	80-134		Toluene-d8	101	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/10/12
Work Order No: 12-07-0442
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-8,233	N/A	Aqueous	GC/MS XX	07/11/12	07/11/12 12:32	120711L01

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

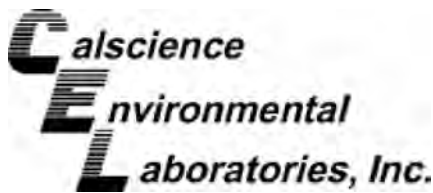
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	80-120		Dibromofluoromethane	97	80-126	
1,2-Dichloroethane-d4	99	80-134		Toluene-d8	103	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/10/12
Work Order No: 12-07-0442
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-8,240	N/A	Aqueous	GC/MS XX	07/11/12	07/12/12 00:51	120711L02

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

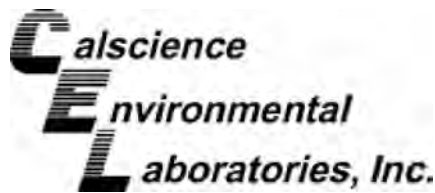
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	80-120		Dibromofluoromethane	96	80-126	
1,2-Dichloroethane-d4	99	80-134		Toluene-d8	102	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/10/12
Work Order No: 12-07-0442
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-8,249	N/A	Aqueous	GC/MS XX	07/12/12	07/13/12 00:50	120712L03

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

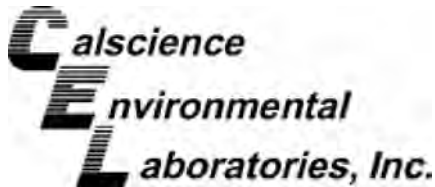
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	80-120		Dibromofluoromethane	99	80-126	
1,2-Dichloroethane-d4	99	80-134		Toluene-d8	95	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Quality Control - Spike/Spike Duplicate



Parsons Government Services, Inc.
 100 West Walnut Street
 Pasadena, CA 91124-0002

Date Received: 07/10/12
 Work Order No: 12-07-0442
 Preparation: EPA 5030C
 Method: EPA 8015B (M)

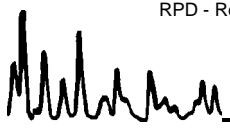
Project DFSP NORWALK GWM / 746442

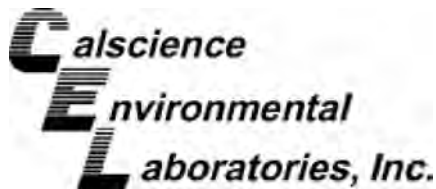
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
EXP-1	Aqueous	GC 22	07/11/12	07/11/12	120711S01

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	ND	2000	1871	94	1845	92	68-122	1	0-18	

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RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



Parsons Government Services, Inc.
 100 West Walnut Street
 Pasadena, CA 91124-0002

Date Received: 07/10/12
 Work Order No: 12-07-0442
 Preparation: EPA 5030C
 Method: EPA 8260B

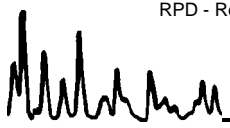
Project DFSP NORWALK GWM / 746442

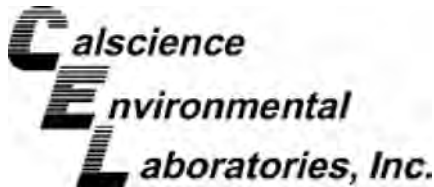
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-07-0406-11	Aqueous	GC/MS XX	07/10/12	07/11/12	120710S02

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	52.52	105	53.75	108	78-120	2	0-20	
Carbon Tetrachloride	ND	50.00	41.68	83	43.22	86	67-139	4	0-20	
Chlorobenzene	ND	50.00	50.57	101	50.76	102	80-120	0	0-20	
1,2-Dibromoethane	ND	50.00	51.15	102	53.22	106	80-123	4	0-20	
1,2-Dichlorobenzene	ND	50.00	50.22	100	50.98	102	76-120	2	0-20	
1,2-Dichloroethane	9.320	50.00	60.11	102	61.42	104	76-130	2	0-20	
1,1-Dichloroethene	ND	50.00	44.56	89	44.07	88	70-130	1	0-27	
Ethylbenzene	ND	50.00	52.74	105	53.01	106	73-127	1	0-20	
Toluene	ND	50.00	52.47	105	53.58	107	72-126	2	0-20	
Trichloroethene	ND	50.00	51.08	102	51.55	103	74-122	1	0-20	
Vinyl Chloride	ND	50.00	53.08	106	50.40	101	65-131	5	0-24	
Methyl-t-Butyl Ether (MTBE)	29.51	50.00	75.67	92	77.12	95	69-123	2	0-20	
Tert-Butyl Alcohol (TBA)	74.98	250.0	307.2	93	378.6	121	65-131	21	0-22	
Diisopropyl Ether (DIPE)	ND	50.00	53.85	108	51.38	103	68-128	5	0-22	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	49.47	99	51.01	102	69-123	3	0-21	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	50.40	101	52.11	104	70-124	3	0-20	
Ethanol	ND	500.0	513.8	103	523.5	105	41-155	2	0-35	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/10/12
Work Order No: 12-07-0442
Preparation: EPA 5030C
Method: EPA 8260B

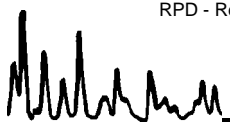
Project DFSP NORWALK GWM / 746442

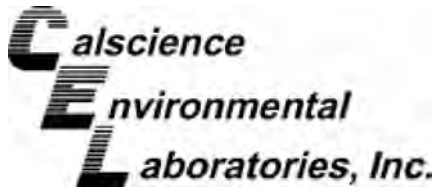
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-07-0510-4	Aqueous	GC/MS XX	07/11/12	07/11/12	120711S01

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	53.72	107	53.98	108	78-120	0	0-20	
Carbon Tetrachloride	ND	50.00	42.42	85	43.97	88	67-139	4	0-20	
Chlorobenzene	ND	50.00	51.60	103	52.65	105	80-120	2	0-20	
1,2-Dibromoethane	ND	50.00	52.26	105	54.36	109	80-123	4	0-20	
1,2-Dichlorobenzene	ND	50.00	51.98	104	52.49	105	76-120	1	0-20	
1,2-Dichloroethane	ND	50.00	53.37	107	53.62	107	76-130	0	0-20	
1,1-Dichloroethene	ND	50.00	44.02	88	43.54	87	70-130	1	0-27	
Ethylbenzene	ND	50.00	54.10	108	55.01	110	73-127	2	0-20	
Toluene	ND	50.00	54.41	109	55.49	111	72-126	2	0-20	
Trichloroethene	ND	50.00	52.43	105	53.23	106	74-122	2	0-20	
Vinyl Chloride	ND	50.00	49.26	99	49.34	99	65-131	0	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	44.96	90	45.96	92	69-123	2	0-20	
Tert-Butyl Alcohol (TBA)	ND	250.0	236.4	95	246.8	99	65-131	4	0-22	
Diisopropyl Ether (DIPE)	ND	50.00	50.37	101	49.81	100	68-128	1	0-22	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	47.25	95	48.28	97	69-123	2	0-21	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	46.83	94	48.77	98	70-124	4	0-20	
Ethanol	ND	500.0	510.8	102	542.5	108	41-155	6	0-35	

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RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



Parsons Government Services, Inc.
 100 West Walnut Street
 Pasadena, CA 91124-0002

Date Received: 07/10/12
 Work Order No: 12-07-0442
 Preparation: EPA 5030C
 Method: EPA 8260B

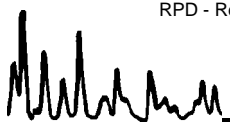
Project DFSP NORWALK GWM / 746442

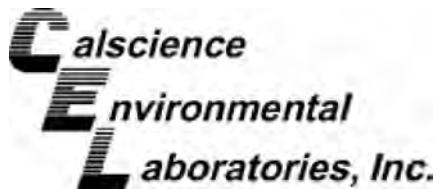
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-07-0260-1	Aqueous	GC/MS XX	07/11/12	07/12/12	120711S02

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	47.25	94	53.30	107	78-120	12	0-20	
Carbon Tetrachloride	ND	50.00	37.00	74	43.90	88	67-139	17	0-20	
Chlorobenzene	ND	50.00	45.38	91	51.26	103	80-120	12	0-20	
1,2-Dibromoethane	ND	50.00	47.08	94	55.25	111	80-123	16	0-20	
1,2-Dichlorobenzene	ND	50.00	45.07	90	50.54	101	76-120	11	0-20	
1,2-Dichloroethane	ND	50.00	47.90	96	54.04	108	76-130	12	0-20	
1,1-Dichloroethene	ND	50.00	37.39	75	42.73	85	70-130	13	0-27	
Ethylbenzene	ND	50.00	47.71	95	53.30	107	73-127	11	0-20	
Toluene	ND	50.00	48.43	97	54.16	108	72-126	11	0-20	
Trichloroethene	ND	50.00	46.39	93	51.89	104	74-122	11	0-20	
Vinyl Chloride	ND	50.00	40.48	81	46.04	92	65-131	13	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	40.25	80	48.08	96	69-123	18	0-20	
Tert-Butyl Alcohol (TBA)	ND	250.0	218.8	88	241.9	97	65-131	10	0-22	
Diisopropyl Ether (DIPE)	ND	50.00	44.95	90	53.27	107	68-128	17	0-22	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	42.63	85	50.33	101	69-123	17	0-21	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	42.05	84	49.32	99	70-124	16	0-20	
Ethanol	ND	500.0	464.1	93	482.5	96	41-155	4	0-35	

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RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



Parsons Government Services, Inc.
 100 West Walnut Street
 Pasadena, CA 91124-0002

Date Received: 07/10/12
 Work Order No: 12-07-0442
 Preparation: EPA 5030C
 Method: EPA 8260B

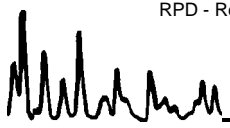
Project DFSP NORWALK GWM / 746442

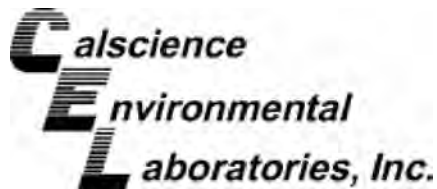
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-07-0572-1	Aqueous	GC/MS XX	07/12/12	07/13/12	120712S02

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	50.69	101	48.43	97	78-120	5	0-20	
Carbon Tetrachloride	ND	50.00	51.09	102	49.57	99	67-139	3	0-20	
Chlorobenzene	ND	50.00	50.47	101	48.15	96	80-120	5	0-20	
1,2-Dibromoethane	ND	50.00	53.20	106	51.47	103	80-123	3	0-20	
1,2-Dichlorobenzene	ND	50.00	51.18	102	48.66	97	76-120	5	0-20	
1,2-Dichloroethane	ND	50.00	50.60	101	47.76	96	76-130	6	0-20	
1,1-Dichloroethene	ND	50.00	42.68	85	40.98	82	70-130	4	0-27	
Ethylbenzene	ND	50.00	51.87	104	49.40	99	73-127	5	0-20	
Toluene	ND	50.00	51.58	103	48.75	97	72-126	6	0-20	
Trichloroethene	24.79	50.00	73.34	97	70.02	90	74-122	5	0-20	
Vinyl Chloride	ND	50.00	43.91	88	40.90	82	65-131	7	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	49.16	98	47.08	94	69-123	4	0-20	
Tert-Butyl Alcohol (TBA)	ND	250.0	248.2	99	227.3	91	65-131	9	0-22	
Diisopropyl Ether (DIPE)	ND	50.00	55.22	110	51.73	103	68-128	7	0-22	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	50.35	101	48.42	97	69-123	4	0-21	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	50.11	100	48.16	96	70-124	4	0-20	
Ethanol	ND	500.0	513.7	103	477.4	95	41-155	7	0-35	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons Government Services, Inc.
 100 West Walnut Street
 Pasadena, CA 91124-0002

Date Received: N/A
 Work Order No: 12-07-0442
 Preparation: EPA 3510C
 Method: EPA 8015B (M)

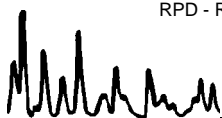
Project: DFSP NORWALK GWM / 746442

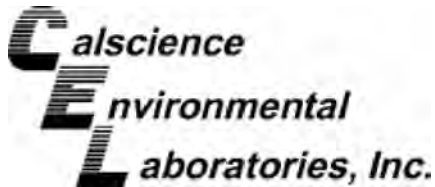
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-334-1	Aqueous	GC 47	07/12/12	07/13/12	120712B07

Parameter	<u>SPIKE ADDED</u>	<u>LCS CONC</u>	<u>LCS %REC</u>	<u>LCSD CONC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as JP5	4000	4640	116	4683	117	75-117	1	0-13	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons Government Services, Inc.
 100 West Walnut Street
 Pasadena, CA 91124-0002

Date Received: N/A
 Work Order No: 12-07-0442
 Preparation: EPA 5030C
 Method: EPA 8015B (M)

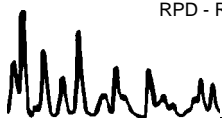
Project: DFSP NORWALK GWM / 746442

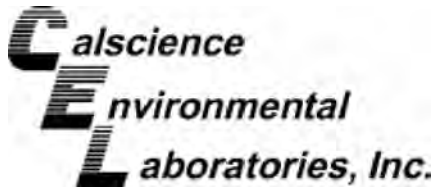
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-247-6,018	Aqueous	GC 22	07/11/12	07/11/12	120711B01

Parameter	<u>SPIKE ADDED</u>	<u>LCS CONC</u>	<u>LCS %REC</u>	<u>LCSD CONC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Gasoline	2000	1859	93	1805	90	78-120	3	0-10	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: N/A
Work Order No: 12-07-0442
Preparation: EPA 5030C
Method: EPA 8260B

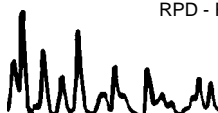
Project: DFSP NORWALK GWM / 746442

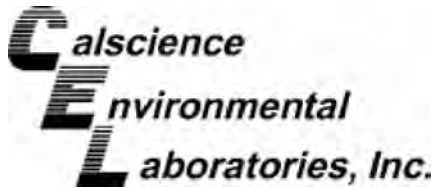
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number					
099-14-001-8,231	Aqueous	GC/MS XX	07/10/12	07/10/12	120710L02					
Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	53.12	106	54.77	110	80-120	73-127	3	0-20	
Carbon Tetrachloride	50.00	44.72	89	44.88	90	66-138	54-150	0	0-20	
Chlorobenzene	50.00	52.66	105	52.28	105	80-120	73-127	1	0-20	
1,2-Dibromoethane	50.00	54.26	109	54.68	109	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	50.00	52.24	104	52.79	106	80-120	73-127	1	0-20	
1,2-Dichloroethane	50.00	52.69	105	53.64	107	80-129	72-137	2	0-20	
1,1-Dichloroethene	50.00	46.62	93	46.12	92	71-131	61-141	1	0-20	
Ethylbenzene	50.00	55.15	110	54.83	110	80-123	73-130	1	0-20	
Toluene	50.00	54.35	109	54.94	110	79-121	72-128	1	0-20	
Trichloroethene	50.00	52.31	105	53.06	106	80-120	73-127	1	0-20	
Vinyl Chloride	50.00	52.92	106	50.31	101	70-136	59-147	5	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	50.00	100	50.12	100	72-126	63-135	0	0-22	
Tert-Butyl Alcohol (TBA)	250.0	256.7	103	260.4	104	71-125	62-134	1	0-25	
Diisopropyl Ether (DIPE)	50.00	56.47	113	52.56	105	69-129	59-139	7	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	53.33	107	52.81	106	69-129	59-139	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	51.88	104	52.92	106	67-133	56-144	2	0-20	
Ethanol	500.0	508.8	102	530.9	106	47-155	29-173	4	0-36	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons Government Services, Inc.
 100 West Walnut Street
 Pasadena, CA 91124-0002

Date Received: N/A
 Work Order No: 12-07-0442
 Preparation: EPA 5030C
 Method: EPA 8260B

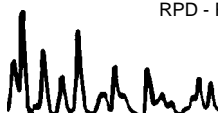
Project: DFSP NORWALK GWM / 746442

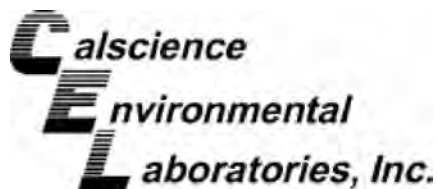
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number					
099-14-001-8,233	Aqueous	GC/MS XX	07/11/12	07/11/12	120711L01					
Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	53.85	108	58.41	117	80-120	73-127	8	0-20	
Carbon Tetrachloride	50.00	43.88	88	48.16	96	66-138	54-150	9	0-20	
Chlorobenzene	50.00	52.11	104	56.98	114	80-120	73-127	9	0-20	
1,2-Dibromoethane	50.00	53.36	107	60.26	121	80-120	73-127	12	0-20	ME
1,2-Dichlorobenzene	50.00	52.15	104	58.81	118	80-120	73-127	12	0-20	
1,2-Dichloroethane	50.00	53.06	106	58.63	117	80-129	72-137	10	0-20	
1,1-Dichloroethene	50.00	44.11	88	47.45	95	71-131	61-141	7	0-20	
Ethylbenzene	50.00	55.05	110	59.74	119	80-123	73-130	8	0-20	
Toluene	50.00	55.34	111	60.42	121	79-121	72-128	9	0-20	
Trichloroethene	50.00	53.48	107	58.33	117	80-120	73-127	9	0-20	
Vinyl Chloride	50.00	49.36	99	51.32	103	70-136	59-147	4	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	45.46	91	51.14	102	72-126	63-135	12	0-22	
Tert-Butyl Alcohol (TBA)	250.0	248.0	99	269.7	108	71-125	62-134	8	0-25	
Diisopropyl Ether (DIPE)	50.00	50.64	101	57.08	114	69-129	59-139	12	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	48.44	97	54.30	109	69-129	59-139	11	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	47.57	95	54.08	108	67-133	56-144	13	0-20	
Ethanol	500.0	492.2	98	509.9	102	47-155	29-173	4	0-36	

Total number of LCS compounds : 17
 Total number of ME compounds : 1
 Total number of ME compounds allowed : 1
 LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: N/A
Work Order No: 12-07-0442
Preparation: EPA 5030C
Method: EPA 8260B

Project: DFSP NORWALK GWM / 746442

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number					
099-14-001-8,240	Aqueous	GC/MS XX	07/11/12	07/11/12	120711L02					
Parameter	<u>SPIKE ADDED</u>	<u>LCS CONC</u>	<u>LCS %REC</u>	<u>LCSD CONC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>ME CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Benzene	50.00	54.90	110	51.94	104	80-120	73-127	6	0-20	
Carbon Tetrachloride	50.00	44.91	90	42.63	85	66-138	54-150	5	0-20	
Chlorobenzene	50.00	53.24	106	48.43	97	80-120	73-127	9	0-20	
1,2-Dibromoethane	50.00	54.50	109	50.78	102	80-120	73-127	7	0-20	
1,2-Dichlorobenzene	50.00	52.55	105	48.09	96	80-120	73-127	9	0-20	
1,2-Dichloroethane	50.00	54.01	108	49.61	99	80-129	72-137	8	0-20	
1,1-Dichloroethene	50.00	44.85	90	41.62	83	71-131	61-141	7	0-20	
Ethylbenzene	50.00	55.94	112	51.22	102	80-123	73-130	9	0-20	
Toluene	50.00	56.10	112	51.66	103	79-121	72-128	8	0-20	
Trichloroethene	50.00	53.69	107	50.60	101	80-120	73-127	6	0-20	
Vinyl Chloride	50.00	48.02	96	45.54	91	70-136	59-147	5	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	46.79	94	43.71	87	72-126	63-135	7	0-22	
Tert-Butyl Alcohol (TBA)	250.0	254.5	102	234.9	94	71-125	62-134	8	0-25	
Diisopropyl Ether (DIPE)	50.00	53.20	106	48.08	96	69-129	59-139	10	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	49.48	99	46.54	93	69-129	59-139	6	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	48.68	97	45.37	91	67-133	56-144	7	0-20	
Ethanol	500.0	503.6	101	467.3	93	47-155	29-173	7	0-36	

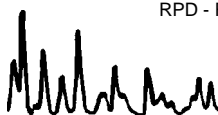
Total number of LCS compounds : 17

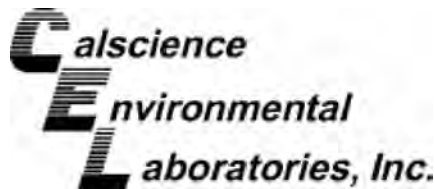
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: N/A
Work Order No: 12-07-0442
Preparation: EPA 5030C
Method: EPA 8260B

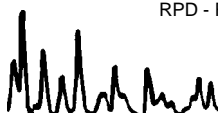
Project: DFSP NORWALK GWM / 746442

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number					
099-14-001-8,249	Aqueous	GC/MS XX	07/12/12	07/12/12	120712L03					
Parameter	<u>SPIKE ADDED</u>	<u>LCS CONC</u>	<u>LCS %REC</u>	<u>LCSD CONC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>ME CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Benzene	50.00	50.55	101	48.94	98	80-120	73-127	3	0-20	
Carbon Tetrachloride	50.00	49.27	99	50.16	100	66-138	54-150	2	0-20	
Chlorobenzene	50.00	49.05	98	48.34	97	80-120	73-127	1	0-20	
1,2-Dibromoethane	50.00	52.50	105	51.64	103	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	50.00	50.55	101	49.69	99	80-120	73-127	2	0-20	
1,2-Dichloroethane	50.00	49.53	99	47.72	95	80-129	72-137	4	0-20	
1,1-Dichloroethene	50.00	41.23	82	41.27	83	71-131	61-141	0	0-20	
Ethylbenzene	50.00	50.85	102	49.94	100	80-123	73-130	2	0-20	
Toluene	50.00	50.54	101	49.37	99	79-121	72-128	2	0-20	
Trichloroethene	50.00	49.04	98	48.14	96	80-120	73-127	2	0-20	
Vinyl Chloride	50.00	40.76	82	39.94	80	70-136	59-147	2	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	47.74	95	47.76	96	72-126	63-135	0	0-22	
Tert-Butyl Alcohol (TBA)	250.0	251.3	101	245.1	98	71-125	62-134	2	0-25	
Diisopropyl Ether (DIPE)	50.00	52.43	105	53.38	107	69-129	59-139	2	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	48.95	98	49.52	99	69-129	59-139	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	48.63	97	49.57	99	67-133	56-144	2	0-20	
Ethanol	500.0	493.8	99	480.0	96	47-155	29-173	3	0-36	

Total number of LCS compounds : 17
 Total number of ME compounds : 0
 Total number of ME compounds allowed : 1
 LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 12-07-0442

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

MPN - Most Probable Number



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: Calscience PM: Ranjit Clark

DHS #

ALL ANALYSES
 MUST MEET

- EPA
- LIA
- OTHER

RWQCB REGION

12-07-0442

SPECIAL INSTRUCTIONS

Invoice and Report to:

Parsons - Mary Lucas (mary.lucas@parsons.com)

100 W Walnut St., Pasadena, CA 91124 (626) 440-6032
 Project # 746442

CHAIN OF

CLIENT **Parsons**

SITE **Norwalk GWM**

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS	
			W = H2O	TOTAL	
EXP-1	7/9/12	0809	W	7	vog/amber
EXP-2		0847			
EXP-3		0922			
Gmw-57		1012			
Gmw-63		1059			
Gmw-64		1146			
Gmw-65		1244			
MW-2(m)		1403			
MW-14		1445			
GW-13		1521			

VOC's (including BTEX, MTBE, TBA, EPA 8260)	TPH as JP5 (8015)	TPHg (8015)	Dissolved Methane (RSK-175M)	Sulfate (300.0)	Alkalinity (SM 2320B)
X	X	X			
X	X	X			
X	X	X			
X	X	X			
X	X	X			
X	X	X			
X	X	X			
X	X	X			
X	X	X			
X	X	X			

ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
			1
			2
			3
			4
			5
			6
			7
			8
			9
			10

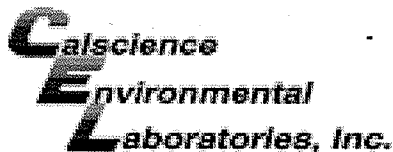
SAMPLING COMPLETED DATE 7/9/12 TIME 1530 SAMPLING PERFORMED BY *Emmanuel* RESULTS NEEDED NO LATER THAN Standard

RELEASED BY *[Signature]* DATE 7/9/12 TIME 1620 RECEIVED BY *[Signature]* DATE 7/9/12 TIME 1620

RELEASED BY *Nicole (sc)* DATE 7/10/12 TIME 0950 RECEIVED BY *[Signature]* DATE 07/10/12 TIME 0950

RELEASED BY *[Signature]* DATE 07/10/12 TIME 1018 RECEIVED BY *[Signature]* DATE 7/10/12 TIME 1018

SHIPPED VIA DATE SENT TIME SENT COOLER #



WORK ORDER #: 12-07-0442

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSON

DATE: 07/10/12

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 1.6 °C - 0.3 °C (CF) = 1.3 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter

Initial: [Signature]

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: [Signature]

Sample _____ No (Not Intact) Not Present Initial: [Signature]

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours...	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Water: VOA VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 1PBna 500PB

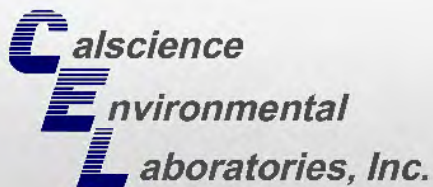
250PB 250PBn 125PB 125PBzanna 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Summa® **Other:** _____ **Trip Blank Lot#:** 120625p **Labeled/Checked by:** [Signature]

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** [Signature]

Preservative: h: HCL n: HNO₃ na₂:Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure zanna: ZnAc₂+NaOH f: Filtered **Scanned by:** [Signature]

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CALSCIENCE

WORK ORDER NUMBER: 12-07-0534

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Parsons Government Services, Inc.

Client Project Name: DFSP NORWALK GWM / 746442

Attention: Mary Lucas
100 West Walnut Street
Pasadena, CA 91124-0002

Approved for release on 07/18/2012 by:
Ranjit Clarke
Project Manager

ResultLink ▶

Email your PM ▶



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Client Project Name: DFSP NORWALK GWM / 746442

Work Order Number: 12-07-0534

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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/11/12
Work Order No: 12-07-0534
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM / 746442

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW-14	12-07-0534-1-D	07/10/12 14:49	Aqueous	GC 47	07/12/12	07/13/12 08:27	120712B07

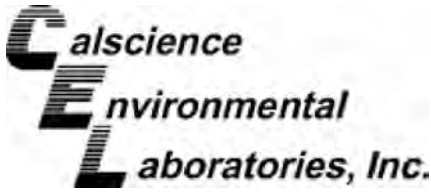
Parameter	Result	RL	DF	Qual	Units
TPH as JP5	2200	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	88	68-140			

Method Blank	099-15-334-1	N/A	Aqueous	GC 47	07/12/12	07/13/12 02:56	120712B07
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	98	68-140			

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/11/12
Work Order No: 12-07-0534
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

Page 1 of 3

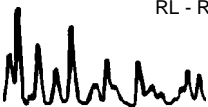
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW-14	12-07-0534-1-B	07/10/12 14:49	Aqueous	GC/MS W	07/12/12	07/12/12 23:12	120712L01

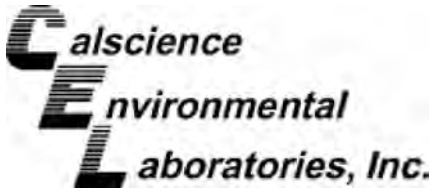
Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	18	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	16	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	24	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	0.57	1.0	0.16	1	J
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	1.3	1.0	0.23	1		Naphthalene	13	10	2.5	1	
sec-Butylbenzene	4.9	1.0	0.25	1		n-Propylbenzene	22	1.0	0.17	1	
tert-Butylbenzene	1.5	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	26	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	9.1	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	10	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	0.57	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	8.2	0.50	0.31	1	
c-1,2-Dichloroethene	0.65	1.0	0.48	1	J	Tert-Butyl Alcohol (TBA)	5.1	10	4.6	1	J
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	99	80-120		Dibromofluoromethane	100	80-126	
1,2-Dichloroethane-d4	98	80-134		Toluene-d8	105	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/11/12
Work Order No: 12-07-0534
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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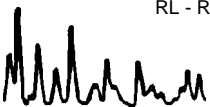
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW-14 Dup	12-07-0534-2-B	07/10/12 00:00	Aqueous	GC/MS W	07/12/12	07/12/12 23:41	120712L01

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

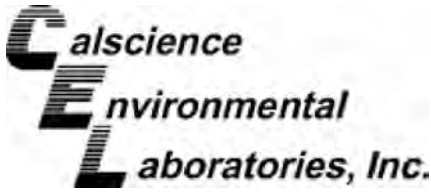
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	18	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	16	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	23	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	0.54	1.0	0.16	1	J
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	1.3	1.0	0.23	1		Naphthalene	13	10	2.5	1	
sec-Butylbenzene	4.7	1.0	0.25	1		n-Propylbenzene	21	1.0	0.17	1	
tert-Butylbenzene	1.4	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	25	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	8.5	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	9.5	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	0.54	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	7.8	0.50	0.31	1	
c-1,2-Dichloroethene	0.65	1.0	0.48	1	J	Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	98	80-120		Dibromofluoromethane	99	80-126	
1,2-Dichloroethane-d4	99	80-134		Toluene-d8	104	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/11/12
Work Order No: 12-07-0534
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-8,250	N/A	Aqueous	GC/MS W	07/12/12	07/12/12 16:16	120712L01

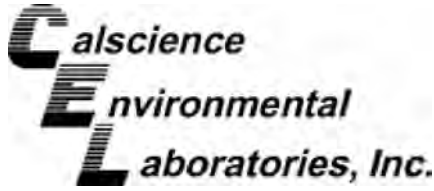
Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	80-120		Dibromofluoromethane	101	80-126	
1,2-Dichloroethane-d4	101	80-134		Toluene-d8	98	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Quality Control - Spike/Spike Duplicate



Parsons Government Services, Inc.
 100 West Walnut Street
 Pasadena, CA 91124-0002

Date Received: 07/11/12
 Work Order No: 12-07-0534
 Preparation: EPA 5030C
 Method: LUFT GC/MS / EPA 8260B

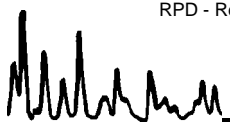
Project DFSP NORWALK GWM / 746442

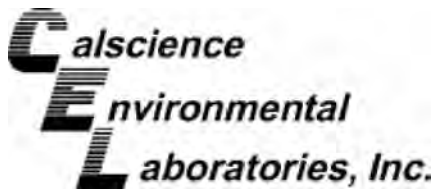
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-07-0236-8	Aqueous	GC/MS W	07/12/12	07/12/12	120712S01

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	47.26	95	45.91	92	78-120	3	0-20	
Carbon Tetrachloride	ND	50.00	48.05	96	48.21	96	67-139	0	0-20	
Chlorobenzene	ND	50.00	48.20	96	46.13	92	80-120	4	0-20	
1,2-Dibromoethane	ND	50.00	47.68	95	45.36	91	80-123	5	0-20	
1,2-Dichlorobenzene	ND	50.00	48.77	98	46.95	94	76-120	4	0-20	
1,2-Dichloroethane	ND	50.00	46.88	94	45.10	90	76-130	4	0-20	
1,1-Dichloroethene	ND	50.00	40.53	81	39.74	79	70-130	2	0-27	
Ethylbenzene	ND	50.00	50.18	100	48.13	96	73-127	4	0-20	
Toluene	ND	50.00	49.59	99	48.18	96	72-126	3	0-20	
Trichloroethene	ND	50.00	46.75	93	45.69	91	74-122	2	0-20	
Vinyl Chloride	ND	50.00	46.13	92	45.12	90	65-131	2	0-24	
Methyl-t-Butyl Ether (MTBE)	17.56	50.00	59.55	84	58.01	81	69-123	3	0-20	
Tert-Butyl Alcohol (TBA)	ND	250.0	192.5	77	189.9	76	65-131	1	0-22	
Diisopropyl Ether (DIPE)	ND	50.00	44.92	90	43.67	87	68-128	3	0-22	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	44.83	90	43.87	88	69-123	2	0-21	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	45.90	92	44.66	89	70-124	3	0-20	
Ethanol	ND	500.0	468.9	94	466.3	93	41-155	1	0-35	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons Government Services, Inc.
 100 West Walnut Street
 Pasadena, CA 91124-0002

Date Received: N/A
 Work Order No: 12-07-0534
 Preparation: EPA 3510C
 Method: EPA 8015B (M)

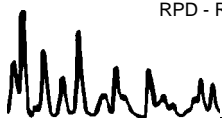
Project: DFSP NORWALK GWM / 746442

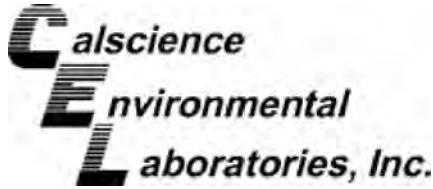
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-334-1	Aqueous	GC 47	07/12/12	07/13/12	120712B07

Parameter	<u>SPIKE ADDED</u>	<u>LCS CONC</u>	<u>LCS %REC</u>	<u>LCSD CONC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as JP5	4000	4640	116	4683	117	75-117	1	0-13	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: N/A
Work Order No: 12-07-0534
Preparation: EPA 5030C
Method: EPA 8260B

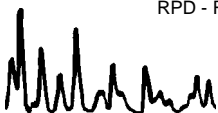
Project: DFSP NORWALK GWM / 746442

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number					
099-14-001-8,250	Aqueous	GC/MS W	07/12/12	07/12/12	120712L01					
Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	51.17	102	50.67	101	80-120	73-127	1	0-20	
Carbon Tetrachloride	50.00	55.61	111	55.08	110	66-138	54-150	1	0-20	
Chlorobenzene	50.00	51.64	103	52.62	105	80-120	73-127	2	0-20	
1,2-Dibromoethane	50.00	52.17	104	53.04	106	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	50.00	52.16	104	53.54	107	80-120	73-127	3	0-20	
1,2-Dichloroethane	50.00	50.37	101	49.83	100	80-129	72-137	1	0-20	
1,1-Dichloroethene	50.00	44.77	90	44.29	89	71-131	61-141	1	0-20	
Ethylbenzene	50.00	54.31	109	55.01	110	80-123	73-130	1	0-20	
Toluene	50.00	53.27	107	53.15	106	79-121	72-128	0	0-20	
Trichloroethene	50.00	51.30	103	50.99	102	80-120	73-127	1	0-20	
Vinyl Chloride	50.00	49.57	99	45.15	90	70-136	59-147	9	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	47.61	95	47.71	95	72-126	63-135	0	0-22	
Tert-Butyl Alcohol (TBA)	250.0	250.7	100	256.6	103	71-125	62-134	2	0-25	
Diisopropyl Ether (DIPE)	50.00	48.82	98	49.43	99	69-129	59-139	1	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	49.61	99	50.45	101	69-129	59-139	2	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	51.10	102	50.89	102	67-133	56-144	0	0-20	
Ethanol	500.0	441.2	88	473.7	95	47-155	29-173	7	0-36	

Total number of LCS compounds : 17
 Total number of ME compounds : 0
 Total number of ME compounds allowed : 1
 LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

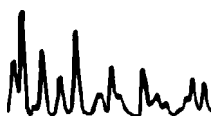


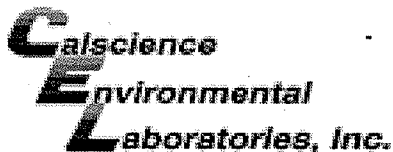
Work Order Number: 12-07-0534

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

MPN - Most Probable Number





WORK ORDER #: 12-07-0534

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSONS

DATE: 07/11/12

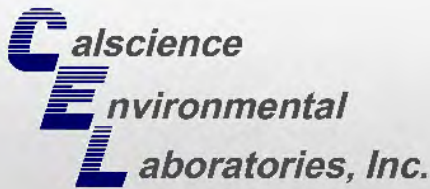
TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0°C - 6.0°C, not frozen)
Temperature 2.7°C - 0.3°C (CF) = 2.0°C
Blank Sample
Sample(s) outside temperature criteria (PM/APM contacted by:)
Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.
Received at ambient temperature, placed on ice for transport by Courier.
Ambient Temperature: Air Filter Initial: SA

CUSTODY SEALS INTACT:
Cooler No (Not Intact) Not Present N/A Initial: SA
Sample No (Not Intact) Not Present Initial: TS

SAMPLE CONDITION:
Chain-Of-Custody (COC) document(s) received with samples... Yes No N/A
COC document(s) received complete...
Collection date/time, matrix, and/or # of containers logged in based on sample labels.
No analysis requested. Not relinquished. No date/time relinquished.
Sampler's name indicated on COC...
Sample container label(s) consistent with COC...
Sample container(s) intact and good condition...
Proper containers and sufficient volume for analyses requested...
Analyses received within holding time...
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours...
Proper preservation noted on COC or sample container...
Unpreserved vials received for Volatiles analysis
Volatile analysis container(s) free of headspace...
Tedlar bag(s) free of condensation...

CONTAINER TYPE:
Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve () EnCores TerraCores
Water: VOA VOAh VOAna2 125AGB 125AGBh 125AGBp 1AGB 1AGBna2 1AGBs
500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 1PBna 500PB
250PB 250PBn 125PB 125PBzanna 100PJ 100PJna2
Air: Tedlar Summa Other: Trip Blank Lot#: Labeled/Checked by: TS
Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: WA
Preservative: h: HCL n: HNO3 na2:Na2S2O3 na: NaOH p: H3PO4 s: H2SO4 u: Ultra-pure zanna: ZnAc2+NaOH f: Filtered Scanned by: WIC





CALSCIENCE

WORK ORDER NUMBER: 12-07-0535

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Parsons Government Services, Inc.

Client Project Name: DFSP NORWALK GWM / 746442

Attention: Mary Lucas
100 West Walnut Street
Pasadena, CA 91124-0002

Approved for release on 07/18/2012 by:
Ranjit Clarke
Project Manager

ResultLink ▶

Email your PM ▶



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Work Order Number: 12-07-0535

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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/11/12
Work Order No: 12-07-0535
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM / 746442

Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-58	12-07-0535-2-D	07/10/12 07:54	Aqueous	GC 47	07/12/12	07/13/12 06:27	120712B07

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	890	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	97	68-140			

MW-11	12-07-0535-3-D	07/10/12 08:27	Aqueous	GC 47	07/12/12	07/13/12 06:42	120712B07
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	780	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	90	68-140			

GW-2	12-07-0535-4-D	07/10/12 09:11	Aqueous	GC 47	07/12/12	07/13/12 06:57	120712B07
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	110	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	88	68-140			

GMW-61	12-07-0535-5-D	07/10/12 09:55	Aqueous	GC 47	07/12/12	07/13/12 07:12	120712B07
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	510	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	93	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/11/12
Work Order No: 12-07-0535
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM / 746442

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-47	12-07-0535-6-D	07/10/12 10:39	Aqueous	GC 47	07/12/12	07/13/12 07:27	120712B07

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	2600	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	97	68-140			

GMW-59	12-07-0535-7-D	07/10/12 12:28	Aqueous	GC 47	07/12/12	07/13/12 07:42	120712B07
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	6300	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	95	68-140			

GMW-60	12-07-0535-9-C	07/10/12 13:19	Aqueous	GC 47	07/12/12	07/13/12 07:57	120712B07
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	1200	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	71	68-140			

GMW-18	12-07-0535-10-D	07/10/12 14:09	Aqueous	GC 47	07/12/12	07/13/12 08:12	120712B07
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	7800	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	75	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/11/12
Work Order No: 12-07-0535
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM / 746442

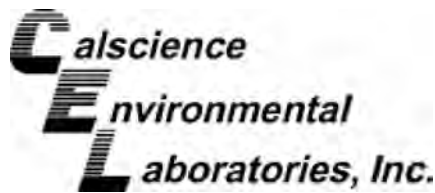
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-15-334-1	N/A	Aqueous	GC 47	07/12/12	07/13/12 02:56	120712B07

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	98	68-140			

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/11/12
Work Order No: 12-07-0535
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

Page 1 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-02	12-07-0535-1-A	07/10/12 07:25	Aqueous	GC/MS LL	07/11/12	07/12/12 03:45	120711L01

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

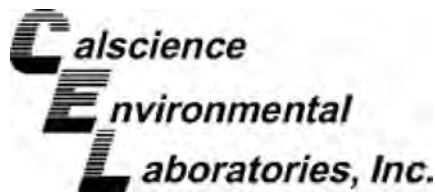
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	80-120		Dibromofluoromethane	97	80-126	
1,2-Dichloroethane-d4	102	80-134		Toluene-d8	99	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/11/12
Work Order No: 12-07-0535
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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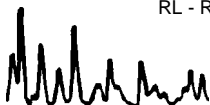
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-58	12-07-0535-2-A	07/10/12 07:54	Aqueous	GC/MS LL	07/11/12	07/12/12 04:15	120711L01

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

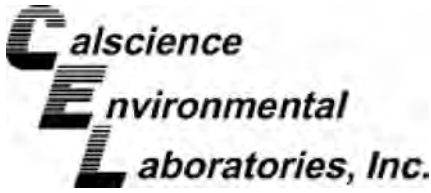
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	27	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	4.1	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	0.43	1.0	0.25	1	J	n-Propylbenzene	1.5	1.0	0.17	1	
tert-Butylbenzene	0.31	1.0	0.28	1	J	Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	0.46	1.0	0.28	1	J	p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	0.46	0.50	0.31	1	J
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	18	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	98	80-120		Dibromofluoromethane	94	80-126	
1,2-Dichloroethane-d4	102	80-134		Toluene-d8	101	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/11/12
Work Order No: 12-07-0535
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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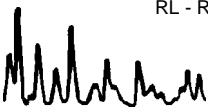
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-11	12-07-0535-3-C	07/10/12 08:27	Aqueous	GC/MS LL	07/13/12	07/13/12 20:47	120713L01

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

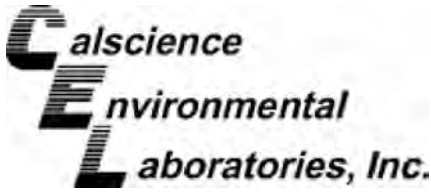
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	8.6	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	0.25	1.0	0.23	1	J	Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	1.6	1.0	0.25	1		n-Propylbenzene	0.25	1.0	0.17	1	J
tert-Butylbenzene	0.61	1.0	0.28	1	J	Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	101	80-120		Dibromofluoromethane	100	80-126	
1,2-Dichloroethane-d4	101	80-134		Toluene-d8	101	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/11/12
Work Order No: 12-07-0535
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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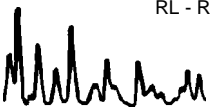
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW-2	12-07-0535-4-C	07/10/12 09:11	Aqueous	GC/MS LL	07/13/12	07/13/12 21:17	120713L01

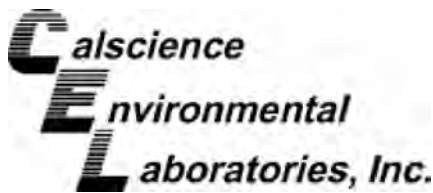
Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	2.4	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	6.2	0.50	0.24	1		o-Xylene	0.24	0.50	0.23	1	J
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	0.69	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	10	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	0.79	2.0	0.33	1	J
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	101	80-120		Dibromofluoromethane	97	80-126	
1,2-Dichloroethane-d4	100	80-134		Toluene-d8	99	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/11/12
Work Order No: 12-07-0535
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-61	12-07-0535-5-C	07/10/12 09:55	Aqueous	GC/MS LL	07/13/12	07/13/12 21:47	120713L01

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

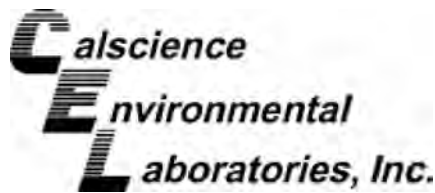
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	18	20	10	1	J	c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	110	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	0.87	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	39	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	1.1	1.0	0.23	1		Naphthalene	10	10	2.5	1	
sec-Butylbenzene	5.6	1.0	0.25	1		n-Propylbenzene	15	1.0	0.17	1	
tert-Butylbenzene	0.74	1.0	0.28	1	J	Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	0.29	0.50	0.24	1	J
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	0.28	0.50	0.24	1	J
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	14	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	99	80-120		Dibromofluoromethane	99	80-126	
1,2-Dichloroethane-d4	100	80-134		Toluene-d8	99	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/11/12
Work Order No: 12-07-0535
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-47	12-07-0535-6-A	07/10/12 10:39	Aqueous	GC/MS LL	07/11/12	07/12/12 09:12	120711L01

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

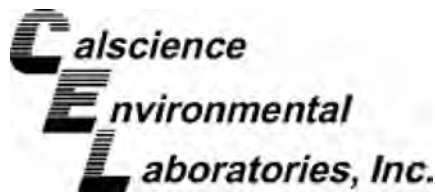
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	0.15	0.50	0.14	1	J	t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	0.29	0.50	0.14	1	J
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	8.9	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	1.5	1.0	0.25	1		n-Propylbenzene	0.75	1.0	0.17	1	J
tert-Butylbenzene	0.77	1.0	0.28	1	J	Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	0.40	1.0	0.38	1	J
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	1.1	1.0	0.28	1		p/m-Xylene	0.31	0.50	0.24	1	J
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	6.5	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	250	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	98	80-120		Dibromofluoromethane	100	80-126	
1,2-Dichloroethane-d4	107	80-134		Toluene-d8	101	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/11/12
Work Order No: 12-07-0535
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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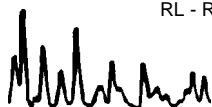
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-59	12-07-0535-7-A	07/10/12 12:28	Aqueous	GC/MS LL	07/11/12	07/12/12 09:41	120711L01

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

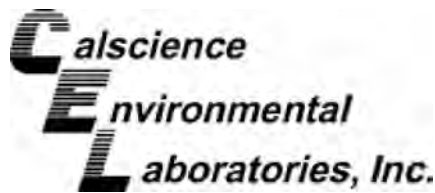
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	200	100	10		c-1,3-Dichloropropene	ND	5.0	2.5	10	
Benzene	1100	5.0	1.4	10		t-1,3-Dichloropropene	ND	5.0	2.5	10	
Bromobenzene	ND	10	3.0	10		Ethylbenzene	1.5	5.0	1.4	10	J
Bromochloromethane	ND	10	4.8	10		2-Hexanone	ND	100	21	10	
Bromodichloromethane	ND	10	2.1	10		Isopropylbenzene	32	10	5.8	10	
Bromoform	ND	10	5.0	10		p-Isopropyltoluene	ND	10	1.6	10	
Bromomethane	ND	50	39	10		Methylene Chloride	ND	50	6.4	10	
2-Butanone	ND	100	22	10		4-Methyl-2-Pentanone	ND	100	44	10	
n-Butylbenzene	ND	10	2.3	10		Naphthalene	ND	100	25	10	
sec-Butylbenzene	3.9	10	2.5	10	J	n-Propylbenzene	29	10	1.7	10	
tert-Butylbenzene	ND	10	2.8	10		Styrene	ND	10	1.7	10	
Carbon Disulfide	ND	100	4.1	10		1,1,1,2-Tetrachloroethane	ND	10	4.0	10	
Carbon Tetrachloride	ND	5.0	2.3	10		1,1,2,2-Tetrachloroethane	ND	10	4.1	10	
Chlorobenzene	ND	10	1.7	10		Tetrachloroethene	ND	10	3.9	10	
Chloroethane	ND	50	23	10		Toluene	ND	5.0	2.4	10	
Chloroform	ND	10	4.6	10		1,2,3-Trichlorobenzene	ND	10	5.1	10	
Chloromethane	ND	50	18	10		1,2,4-Trichlorobenzene	ND	10	5.0	10	
2-Chlorotoluene	ND	10	2.4	10		1,1,1-Trichloroethane	ND	10	3.0	10	
4-Chlorotoluene	ND	10	1.3	10		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	100	7.8	10	
Dibromochloromethane	ND	10	2.5	10		1,1,2-Trichloroethane	ND	10	3.8	10	
1,2-Dibromo-3-Chloropropane	ND	50	12	10		Trichloroethene	ND	10	3.7	10	
1,2-Dibromoethane	ND	10	3.6	10		Trichlorofluoromethane	ND	100	17	10	
Dibromomethane	ND	10	4.6	10		1,2,3-Trichloropropane	ND	50	6.4	10	
1,2-Dichlorobenzene	ND	10	4.6	10		1,2,4-Trimethylbenzene	ND	10	3.6	10	
1,3-Dichlorobenzene	ND	10	4.0	10		1,3,5-Trimethylbenzene	ND	10	2.8	10	
1,4-Dichlorobenzene	ND	10	4.3	10		Vinyl Acetate	ND	100	28	10	
Dichlorodifluoromethane	ND	10	4.6	10		Vinyl Chloride	ND	5.0	3.0	10	
1,1-Dichloroethane	ND	10	2.8	10		p/m-Xylene	ND	5.0	2.4	10	
1,2-Dichloroethane	ND	5.0	2.4	10		o-Xylene	ND	5.0	2.3	10	
1,1-Dichloroethene	ND	10	4.3	10		Methyl-t-Butyl Ether (MTBE)	9.7	5.0	3.1	10	
c-1,2-Dichloroethene	ND	10	4.8	10		Tert-Butyl Alcohol (TBA)	ND	100	46	10	
t-1,2-Dichloroethene	ND	10	3.7	10		Diisopropyl Ether (DIPE)	ND	20	3.3	10	
1,2-Dichloropropane	ND	10	4.2	10		Ethyl-t-Butyl Ether (ETBE)	ND	20	4.4	10	
1,3-Dichloropropane	ND	10	3.0	10		Tert-Amyl-Methyl Ether (TAME)	ND	20	2.2	10	
2,2-Dichloropropane	ND	10	3.6	10		Ethanol	ND	1000	500	10	
1,1-Dichloropropene	ND	10	4.6	10							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	100	80-120		Dibromofluoromethane	104	80-126	
1,2-Dichloroethane-d4	106	80-134		Toluene-d8	100	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/11/12
Work Order No: 12-07-0535
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-59 Dup	12-07-0535-8-A	07/10/12 00:00	Aqueous	GC/MS LL	07/11/12	07/12/12 10:11	120711L01

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

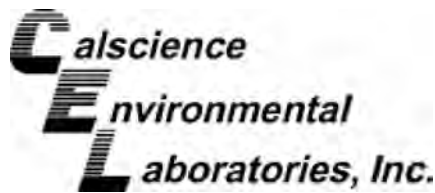
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	200	100	10		c-1,3-Dichloropropene	ND	5.0	2.5	10	
Benzene	1100	5.0	1.4	10		t-1,3-Dichloropropene	ND	5.0	2.5	10	
Bromobenzene	ND	10	3.0	10		Ethylbenzene	1.6	5.0	1.4	10	J
Bromochloromethane	ND	10	4.8	10		2-Hexanone	ND	100	21	10	
Bromodichloromethane	ND	10	2.1	10		Isopropylbenzene	33	10	5.8	10	
Bromoform	ND	10	5.0	10		p-Isopropyltoluene	ND	10	1.6	10	
Bromomethane	ND	50	39	10		Methylene Chloride	ND	50	6.4	10	
2-Butanone	ND	100	22	10		4-Methyl-2-Pentanone	ND	100	44	10	
n-Butylbenzene	ND	10	2.3	10		Naphthalene	ND	100	25	10	
sec-Butylbenzene	3.8	10	2.5	10	J	n-Propylbenzene	29	10	1.7	10	
tert-Butylbenzene	ND	10	2.8	10		Styrene	ND	10	1.7	10	
Carbon Disulfide	ND	100	4.1	10		1,1,1,2-Tetrachloroethane	ND	10	4.0	10	
Carbon Tetrachloride	ND	5.0	2.3	10		1,1,2,2-Tetrachloroethane	ND	10	4.1	10	
Chlorobenzene	ND	10	1.7	10		Tetrachloroethene	ND	10	3.9	10	
Chloroethane	ND	50	23	10		Toluene	ND	5.0	2.4	10	
Chloroform	ND	10	4.6	10		1,2,3-Trichlorobenzene	ND	10	5.1	10	
Chloromethane	ND	50	18	10		1,2,4-Trichlorobenzene	ND	10	5.0	10	
2-Chlorotoluene	ND	10	2.4	10		1,1,1-Trichloroethane	ND	10	3.0	10	
4-Chlorotoluene	ND	10	1.3	10		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	100	7.8	10	
Dibromochloromethane	ND	10	2.5	10		1,1,2-Trichloroethane	ND	10	3.8	10	
1,2-Dibromo-3-Chloropropane	ND	50	12	10		Trichloroethene	ND	10	3.7	10	
1,2-Dibromoethane	ND	10	3.6	10		Trichlorofluoromethane	ND	100	17	10	
Dibromomethane	ND	10	4.6	10		1,2,3-Trichloropropane	ND	50	6.4	10	
1,2-Dichlorobenzene	ND	10	4.6	10		1,2,4-Trimethylbenzene	ND	10	3.6	10	
1,3-Dichlorobenzene	ND	10	4.0	10		1,3,5-Trimethylbenzene	ND	10	2.8	10	
1,4-Dichlorobenzene	ND	10	4.3	10		Vinyl Acetate	ND	100	28	10	
Dichlorodifluoromethane	ND	10	4.6	10		Vinyl Chloride	ND	5.0	3.0	10	
1,1-Dichloroethane	ND	10	2.8	10		p/m-Xylene	ND	5.0	2.4	10	
1,2-Dichloroethane	ND	5.0	2.4	10		o-Xylene	ND	5.0	2.3	10	
1,1-Dichloroethene	ND	10	4.3	10		Methyl-t-Butyl Ether (MTBE)	9.3	5.0	3.1	10	
c-1,2-Dichloroethene	ND	10	4.8	10		Tert-Butyl Alcohol (TBA)	ND	100	46	10	
t-1,2-Dichloroethene	ND	10	3.7	10		Diisopropyl Ether (DIPE)	ND	20	3.3	10	
1,2-Dichloropropane	ND	10	4.2	10		Ethyl-t-Butyl Ether (ETBE)	ND	20	4.4	10	
1,3-Dichloropropane	ND	10	3.0	10		Tert-Amyl-Methyl Ether (TAME)	ND	20	2.2	10	
2,2-Dichloropropane	ND	10	3.6	10		Ethanol	ND	1000	500	10	
1,1-Dichloropropene	ND	10	4.6	10							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	100	80-120		Dibromofluoromethane	102	80-126	
1,2-Dichloroethane-d4	106	80-134		Toluene-d8	100	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/11/12
Work Order No: 12-07-0535
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-60	12-07-0535-9-A	07/10/12 13:19	Aqueous	GC/MS LL	07/11/12	07/12/12 10:41	120711L01

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

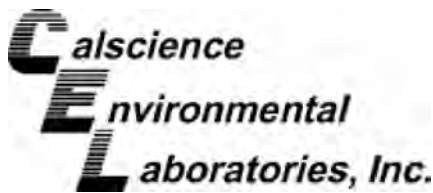
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	81	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	5.1	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	0.70	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	22	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	0.57	1.0	0.23	1	J	Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	2.7	1.0	0.25	1		n-Propylbenzene	18	1.0	0.17	1	
tert-Butylbenzene	0.35	1.0	0.28	1	J	Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	0.24	0.50	0.23	1	J
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	69	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	99	80-120		Dibromofluoromethane	98	80-126	
1,2-Dichloroethane-d4	107	80-134		Toluene-d8	101	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/11/12
Work Order No: 12-07-0535
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-18	12-07-0535-10-C	07/10/12 14:09	Aqueous	GC/MS LL	07/13/12	07/13/12 22:18	120713L01

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

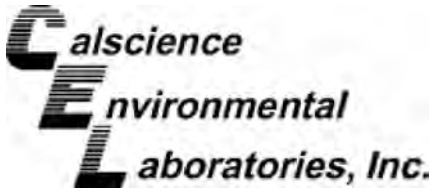
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	27	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	94	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	0.94	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	0.28	1.0	0.21	1	J	Isopropylbenzene	4.3	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	0.31	1.0	0.23	1	J	Naphthalene	4.6	10	2.5	1	J
sec-Butylbenzene	0.62	1.0	0.25	1	J	n-Propylbenzene	2.3	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	0.46	10	0.41	1	J	1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	0.42	0.50	0.24	1	J
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	3.3	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	0.59	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	3.9	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	27	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	98	80-120		Dibromofluoromethane	98	80-126	
1,2-Dichloroethane-d4	98	80-134		Toluene-d8	99	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/11/12
Work Order No: 12-07-0535
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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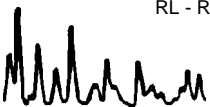
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-8,244	N/A	Aqueous	GC/MS LL	07/11/12	07/12/12 03:16	120711L01

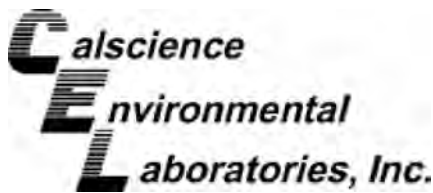
Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	80-120		Dibromofluoromethane	96	80-126	
1,2-Dichloroethane-d4	99	80-134		Toluene-d8	102	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 07/11/12
Work Order No: 12-07-0535
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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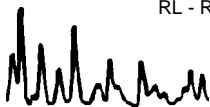
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-8,263	N/A	Aqueous	GC/MS LL	07/13/12	07/13/12 17:14	120713L01

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

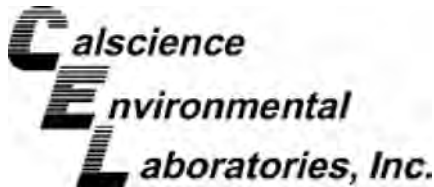
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	100	80-120		Dibromofluoromethane	92	80-126	
1,2-Dichloroethane-d4	101	80-134		Toluene-d8	99	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Quality Control - Spike/Spike Duplicate



Parsons Government Services, Inc.
 100 West Walnut Street
 Pasadena, CA 91124-0002

Date Received: 07/11/12
 Work Order No: 12-07-0535
 Preparation: EPA 5030C
 Method: EPA 8260B

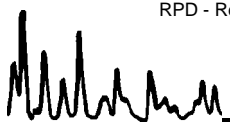
Project DFSP NORWALK GWM / 746442

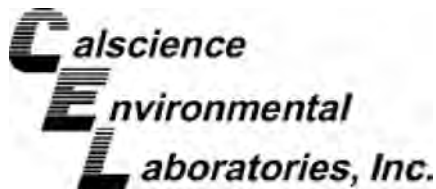
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GMW-58	Aqueous	GC/MS LL	07/11/12	07/12/12	120711S01

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	26.81	50.00	78.29	103	76.89	100	78-120	2	0-20	
Carbon Tetrachloride	ND	50.00	47.56	95	48.24	96	67-139	1	0-20	
Chlorobenzene	ND	50.00	51.86	104	51.79	104	80-120	0	0-20	
1,2-Dibromoethane	ND	50.00	53.44	107	53.25	107	80-123	0	0-20	
1,2-Dichlorobenzene	ND	50.00	51.07	102	50.72	101	76-120	1	0-20	
1,2-Dichloroethane	ND	50.00	54.14	108	53.23	106	76-130	2	0-20	
1,1-Dichloroethene	ND	50.00	45.80	92	46.64	93	70-130	2	0-27	
Ethylbenzene	ND	50.00	53.57	107	53.43	107	73-127	0	0-20	
Toluene	ND	50.00	53.19	106	52.79	106	72-126	1	0-20	
Trichloroethene	ND	50.00	49.30	99	49.69	99	74-122	1	0-20	
Vinyl Chloride	ND	50.00	52.22	104	53.09	106	65-131	2	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	48.11	96	48.25	96	69-123	0	0-20	
Tert-Butyl Alcohol (TBA)	17.54	250.0	323.8	122	304.1	115	65-131	6	0-22	
Diisopropyl Ether (DIPE)	ND	50.00	80.03	160	79.87	160	68-128	0	0-22	3
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	50.98	102	51.61	103	69-123	1	0-21	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	50.24	100	49.91	100	70-124	1	0-20	
Ethanol	ND	500.0	519.7	104	520.6	104	41-155	0	0-35	

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RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



Parsons Government Services, Inc.
 100 West Walnut Street
 Pasadena, CA 91124-0002

Date Received: 07/11/12
 Work Order No: 12-07-0535
 Preparation: EPA 5030C
 Method: LUFT GC/MS / EPA 8260B

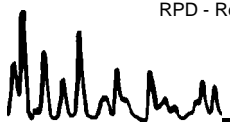
Project DFSP NORWALK GWM / 746442

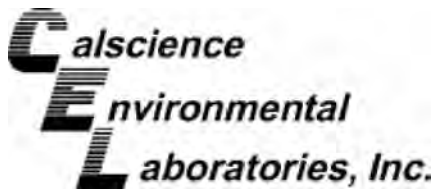
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-07-0657-2	Aqueous	GC/MS LL	07/13/12	07/13/12	120713S01

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	50.83	102	50.41	101	78-120	1	0-20	
Carbon Tetrachloride	ND	50.00	47.73	95	47.19	94	67-139	1	0-20	
Chlorobenzene	ND	50.00	52.69	105	51.41	103	80-120	2	0-20	
1,2-Dibromoethane	ND	50.00	55.03	110	54.54	109	80-123	1	0-20	
1,2-Dichlorobenzene	ND	50.00	53.18	106	51.45	103	76-120	3	0-20	
1,2-Dichloroethane	4.194	50.00	59.38	110	57.77	107	76-130	3	0-20	
1,1-Dichloroethene	ND	50.00	45.34	91	44.83	90	70-130	1	0-27	
Ethylbenzene	ND	50.00	53.85	108	53.68	107	73-127	0	0-20	
Toluene	ND	50.00	53.41	107	52.54	105	72-126	2	0-20	
Trichloroethene	ND	50.00	52.38	105	50.99	102	74-122	3	0-20	
Vinyl Chloride	ND	50.00	49.92	100	51.13	102	65-131	2	0-24	
Methyl-t-Butyl Ether (MTBE)	2.447	50.00	50.66	96	49.34	94	69-123	3	0-20	
Tert-Butyl Alcohol (TBA)	87.53	250.0	364.5	111	344.8	103	65-131	6	0-22	
Diisopropyl Ether (DIPE)	ND	50.00	42.15	84	42.27	85	68-128	0	0-22	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	48.44	97	47.73	95	69-123	1	0-21	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	49.80	100	48.58	97	70-124	2	0-20	
Ethanol	ND	500.0	511.1	102	455.5	91	41-155	12	0-35	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons Government Services, Inc.
 100 West Walnut Street
 Pasadena, CA 91124-0002

Date Received: N/A
 Work Order No: 12-07-0535
 Preparation: EPA 3510C
 Method: EPA 8015B (M)

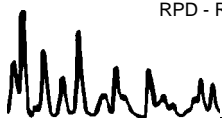
Project: DFSP NORWALK GWM / 746442

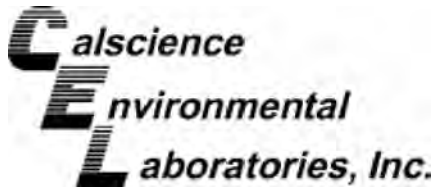
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-334-1	Aqueous	GC 47	07/12/12	07/13/12	120712B07

Parameter	<u>SPIKE ADDED</u>	<u>LCS CONC</u>	<u>LCS %REC</u>	<u>LCSD CONC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as JP5	4000	4640	116	4683	117	75-117	1	0-13	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: N/A
Work Order No: 12-07-0535
Preparation: EPA 5030C
Method: EPA 8260B

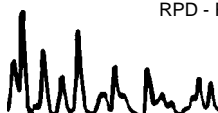
Project: DFSP NORWALK GWM / 746442

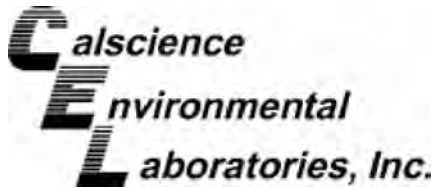
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number					
099-14-001-8,244	Aqueous	GC/MS LL	07/11/12	07/12/12	120711L01					
Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	52.27	105	53.91	108	80-120	73-127	3	0-20	
Carbon Tetrachloride	50.00	49.32	99	51.74	103	66-138	54-150	5	0-20	
Chlorobenzene	50.00	52.29	105	54.58	109	80-120	73-127	4	0-20	
1,2-Dibromoethane	50.00	50.79	102	53.64	107	80-120	73-127	5	0-20	
1,2-Dichlorobenzene	50.00	51.72	103	51.93	104	80-120	73-127	0	0-20	
1,2-Dichloroethane	50.00	51.44	103	53.33	107	80-129	72-137	4	0-20	
1,1-Dichloroethene	50.00	47.77	96	49.60	99	71-131	61-141	4	0-20	
Ethylbenzene	50.00	54.26	109	56.97	114	80-123	73-130	5	0-20	
Toluene	50.00	53.54	107	55.93	112	79-121	72-128	4	0-20	
Trichloroethene	50.00	51.22	102	52.87	106	80-120	73-127	3	0-20	
Vinyl Chloride	50.00	56.03	112	58.29	117	70-136	59-147	4	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	46.25	92	46.89	94	72-126	63-135	1	0-22	
Tert-Butyl Alcohol (TBA)	250.0	246.6	99	243.4	97	71-125	62-134	1	0-25	
Diisopropyl Ether (DIPE)	50.00	79.95	160	81.38	163	69-129	59-139	2	0-20	X
Ethyl-t-Butyl Ether (ETBE)	50.00	50.31	101	51.68	103	69-129	59-139	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	49.43	99	50.68	101	67-133	56-144	3	0-20	
Ethanol	500.0	517.7	104	499.1	100	47-155	29-173	4	0-36	

Total number of LCS compounds : 17
 Total number of ME compounds : 0
 Total number of ME compounds allowed : 1
 LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: N/A
Work Order No: 12-07-0535
Preparation: EPA 5030C
Method: EPA 8260B

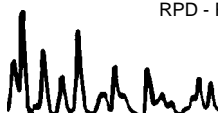
Project: DFSP NORWALK GWM / 746442

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number					
099-14-001-8,263	Aqueous	GC/MS LL	07/13/12	07/13/12	120713L01					
Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	50.91	102	50.64	101	80-120	73-127	1	0-20	
Carbon Tetrachloride	50.00	49.74	99	50.54	101	66-138	54-150	2	0-20	
Chlorobenzene	50.00	53.70	107	52.96	106	80-120	73-127	1	0-20	
1,2-Dibromoethane	50.00	54.10	108	53.46	107	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	50.00	54.04	108	52.71	105	80-120	73-127	2	0-20	
1,2-Dichloroethane	50.00	53.89	108	54.02	108	80-129	72-137	0	0-20	
1,1-Dichloroethene	50.00	46.55	93	46.97	94	71-131	61-141	1	0-20	
Ethylbenzene	50.00	55.58	111	55.22	110	80-123	73-130	1	0-20	
Toluene	50.00	54.07	108	53.64	107	79-121	72-128	1	0-20	
Trichloroethene	50.00	52.64	105	51.97	104	80-120	73-127	1	0-20	
Vinyl Chloride	50.00	49.98	100	51.34	103	70-136	59-147	3	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	45.98	92	46.47	93	72-126	63-135	1	0-22	
Tert-Butyl Alcohol (TBA)	250.0	237.9	95	247.4	99	71-125	62-134	4	0-25	
Diisopropyl Ether (DIPE)	50.00	45.35	91	41.10	82	69-129	59-139	10	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	48.09	96	48.09	96	69-129	59-139	0	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	48.98	98	48.47	97	67-133	56-144	1	0-20	
Ethanol	500.0	497.1	99	438.5	88	47-155	29-173	13	0-36	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 12-07-0535

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

MPN - Most Probable Number



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: Calscience PM: Ranjit Clark

DHS #

ALL ANALYSES
 MUST MEET

- EPA
- LIA
- OTHER

RWQCB REGION

SPECIAL INSTRUCTIONS

12-07-0535

Invoice and Report to:

Parsons - Mary Lucas (mary.lucas@parsons.com)

100 W Walnut St., Pasadena, CA 91124 (626) 440-6032
 Project # 746442

CHAIN OF

CLIENT **Parsons**

SITE **Norwalk GWM**

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS		VOC's (including BTEX, MTBE, TBA, EPA 8260)	TPH as JP5 (8015)	TPHg (8015)	Dissolved Methane (RSK-175M)	Sulfate (300.0)	Alkalinity (SM 2320B)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
			W = H2O	TOTAL											
TB-02	7/10/12	0725	W	3	VOCs	X	X								1
GMW-58		0754		4	VOC/gamber	X	X								2
MW-71		0827		4		X	X								3
MW-2 GMW		0911		4		X	X								4
GMW-61		0955		4		X	X								5
GMW-47		1039		4		X	X								6
GMW-59		1228		4		X	X								7
GMW-59 dup				4		X	X								8
GMW-60		1319		3		X	X								9
GMW-19		1409		4		X	X								10

SAMPLING COMPLETED DATE **7/10/12** TIME **1500** SAMPLING PERFORMED BY **Emmanuel Uac**

RESULTS NEEDED NO LATER THAN **Standard**

RELEASED BY **[Signature]** DATE **7/10/12** TIME **1625**

RECEIVED BY **[Signature]** DATE **7/10/12** TIME **1625**

RECEIVED BY **[Signature]** DATE **7/10/12** TIME **1625**

RELEASED BY **Nicole (SC)** DATE **7/11/12** TIME **1256**

RECEIVED BY **Rudy W** DATE **7/11/12** TIME **1056**

RECEIVED BY **[Signature]** DATE **7/11/12** TIME **1056**

RELEASED BY **Rudy W** DATE **7/11/12** TIME **1344**

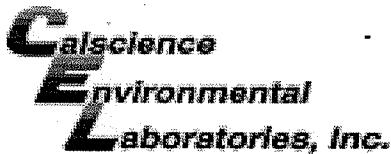
RECEIVED BY **[Signature]** DATE **7/11/12** TIME **1344**

RECEIVED BY **[Signature]** DATE **7/11/12** TIME **1344**

SHIPPED VIA

DATE SENT TIME SENT COOLER #

COOLER #



WORK ORDER #: 12-07-0535

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSONS

DATE: 07/11/12

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.4 °C - 0.3 °C (CF) = 2.1 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Initial: RM

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: RM

Sample _____ No (Not Intact) Not Present Initial: TS

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours...	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Water: VOA VOA³h VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 1PBna 500PB

250PB 250PBn 125PB 125PBz_{na} 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Summa® Other: _____ Trip Blank Lot#: 120625B Labeled/Checked by: DS

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: YL

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z_{na}: ZnAc₂+NaOH f: Filtered Scanned by: JW





Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135
Date Received : 07/12/12

Job: KMEP DFSP Norwalk

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID :	WCW-7				
Lab ID :	CHH12071203-02A	TPH-E (DRO)	ND	0.050 mg/L	07/12/12
Date Sampled	07/10/12 08:30	Surr: Nonane	109	(49-145) %REC	07/12/12
		TPH-P (GRO)	ND	0.050 mg/L	07/20/12
		Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC	07/20/12
		Surr: Toluene-d8	97	(70-130) %REC	07/20/12
		Surr: 4-Bromofluorobenzene	105	(70-130) %REC	07/20/12
Client ID :	EB-2				
Lab ID :	CHH12071203-03A	TPH-E (DRO)	ND	0.050 mg/L	07/12/12
Date Sampled	07/10/12 08:40	Surr: Nonane	111	(49-145) %REC	07/12/12
		TPH-P (GRO)	ND	0.050 mg/L	07/20/12
		Surr: 1,2-Dichloroethane-d4	111	(70-130) %REC	07/20/12
		Surr: Toluene-d8	95	(70-130) %REC	07/20/12
		Surr: 4-Bromofluorobenzene	104	(70-130) %REC	07/20/12
Client ID :	DUP-1				
Lab ID :	CHH12071203-04A	TPH-E (DRO)	ND	0.050 mg/L	07/12/12
Date Sampled	07/10/12 00:00	Surr: Nonane	114	(49-145) %REC	07/12/12
		TPH-P (GRO)	ND	0.050 mg/L	07/20/12
		Surr: 1,2-Dichloroethane-d4	119	(70-130) %REC	07/20/12
		Surr: Toluene-d8	96	(70-130) %REC	07/20/12
		Surr: 4-Bromofluorobenzene	106	(70-130) %REC	07/20/12
Client ID :	GMW-O-1				
Lab ID :	CHH12071203-05A	TPH-E (DRO)	ND	0.050 mg/L	07/12/12
Date Sampled	07/10/12 09:17	Surr: Nonane	116	(49-145) %REC	07/12/12
		TPH-P (GRO)	ND	0.050 mg/L	07/20/12
		Surr: 1,2-Dichloroethane-d4	107	(70-130) %REC	07/20/12
		Surr: Toluene-d8	96	(70-130) %REC	07/20/12
		Surr: 4-Bromofluorobenzene	105	(70-130) %REC	07/20/12
Client ID :	GMW-O-2				
Lab ID :	CHH12071203-06A	TPH-E (DRO)	ND	0.050 mg/L	07/12/12
Date Sampled	07/10/12 09:51	Surr: Nonane	109	(49-145) %REC	07/12/12
		TPH-P (GRO)	ND	0.050 mg/L	07/20/12
		Surr: 1,2-Dichloroethane-d4	107	(70-130) %REC	07/20/12
		Surr: Toluene-d8	96	(70-130) %REC	07/20/12
		Surr: 4-Bromofluorobenzene	106	(70-130) %REC	07/20/12
Client ID :	GMW-O-3				
Lab ID :	CHH12071203-07A	TPH-E (DRO)	ND	0.050 mg/L	07/12/12
Date Sampled	07/10/12 10:27	Surr: Nonane	108	(49-145) %REC	07/12/12
		TPH-P (GRO)	ND	0.050 mg/L	07/20/12
		Surr: 1,2-Dichloroethane-d4	108	(70-130) %REC	07/20/12
		Surr: Toluene-d8	96	(70-130) %REC	07/20/12
		Surr: 4-Bromofluorobenzene	105	(70-130) %REC	07/20/12



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Client ID :	GMW-O-14						
Lab ID :	CHH12071203-08A	TPH-E (DRO)	0.39		0.050 mg/L	07/12/12	07/12/12
Date Sampled	07/10/12 11:29	Surr: Nonane	0	S51	(49-145) %REC	07/12/12	07/12/12
		TPH-P (GRO)	48		10 mg/L	07/20/12	07/20/12
		Surr: 1,2-Dichloroethane-d4	106		(70-130) %REC	07/20/12	07/20/12
		Surr: Toluene-d8	95		(70-130) %REC	07/20/12	07/20/12
		Surr: 4-Bromofluorobenzene	105		(70-130) %REC	07/20/12	07/20/12
Client ID :	DUP-2						
Lab ID :	CHH12071203-09A	TPH-E (DRO)	1.3		0.050 mg/L	07/12/12	07/12/12
Date Sampled	07/10/12 00:00	Surr: Nonane	0	S51	(49-145) %REC	07/12/12	07/12/12
		TPH-P (GRO)	46		10 mg/L	07/20/12	07/20/12
		Surr: 1,2-Dichloroethane-d4	107		(70-130) %REC	07/20/12	07/20/12
		Surr: Toluene-d8	95		(70-130) %REC	07/20/12	07/20/12
		Surr: 4-Bromofluorobenzene	105		(70-130) %REC	07/20/12	07/20/12
Client ID :	GMW-O-16						
Lab ID :	CHH12071203-10A	TPH-E (DRO)	ND		0.050 mg/L	07/12/12	07/12/12
Date Sampled	07/10/12 12:30	Surr: Nonane	97		(49-145) %REC	07/12/12	07/12/12
		TPH-P (GRO)	ND		0.050 mg/L	07/20/12	07/20/12
		Surr: 1,2-Dichloroethane-d4	107		(70-130) %REC	07/20/12	07/20/12
		Surr: Toluene-d8	96		(70-130) %REC	07/20/12	07/20/12
		Surr: 4-Bromofluorobenzene	105		(70-130) %REC	07/20/12	07/20/12
Client ID :	GMW-O-19						
Lab ID :	CHH12071203-11A	TPH-E (DRO)	ND		0.050 mg/L	07/12/12	07/12/12
Date Sampled	07/10/12 12:58	Surr: Nonane	115		(49-145) %REC	07/12/12	07/12/12
		TPH-P (GRO)	ND		0.050 mg/L	07/20/12	07/20/12
		Surr: 1,2-Dichloroethane-d4	107		(70-130) %REC	07/20/12	07/20/12
		Surr: Toluene-d8	95		(70-130) %REC	07/20/12	07/20/12
		Surr: 4-Bromofluorobenzene	106		(70-130) %REC	07/20/12	07/20/12
Client ID :	GMW-38						
Lab ID :	CHH12071203-12A	TPH-E (DRO)	ND		0.050 mg/L	07/12/12	07/12/12
Date Sampled	07/10/12 13:47	Surr: Nonane	110		(49-145) %REC	07/12/12	07/12/12
		TPH-P (GRO)	ND		0.050 mg/L	07/20/12	07/20/12
		Surr: 1,2-Dichloroethane-d4	109		(70-130) %REC	07/20/12	07/20/12
		Surr: Toluene-d8	95		(70-130) %REC	07/20/12	07/20/12
		Surr: 4-Bromofluorobenzene	107		(70-130) %REC	07/20/12	07/20/12
Client ID :	GMW-39						
Lab ID :	CHH12071203-13A	TPH-E (DRO)	ND		0.050 mg/L	07/12/12	07/12/12
Date Sampled	07/10/12 14:26	Surr: Nonane	113		(49-145) %REC	07/12/12	07/12/12
		TPH-P (GRO)	ND		0.050 mg/L	07/20/12	07/20/12
		Surr: 1,2-Dichloroethane-d4	108		(70-130) %REC	07/20/12	07/20/12
		Surr: Toluene-d8	96		(70-130) %REC	07/20/12	07/20/12
		Surr: 4-Bromofluorobenzene	106		(70-130) %REC	07/20/12	07/20/12
Client ID :	PZ-5						
Lab ID :	CHH12071203-14A	TPH-E (DRO)	0.36		0.050 mg/L	07/12/12	07/12/12
Date Sampled	07/10/12 15:03	Surr: Nonane	82		(49-145) %REC	07/12/12	07/12/12
		TPH-P (GRO)	7.6		2.0 mg/L	07/20/12	07/20/12
		Surr: 1,2-Dichloroethane-d4	105		(70-130) %REC	07/20/12	07/20/12
		Surr: Toluene-d8	93		(70-130) %REC	07/20/12	07/20/12
		Surr: 4-Bromofluorobenzene	106		(70-130) %REC	07/20/12	07/20/12



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Diesel Range Organics (DRO) C13-C22
Gasoline Range Organics (GRO) C4-C13
ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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PS

7/23/12

Report Date



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ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMFP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12071203-01A
Client I.D. Number: TB-2

Sampled: 07/10/12 07:00
Received: 07/12/12
Extracted: 07/20/12
Analyzed: 07/20/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	104	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	97	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	106	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinckman

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[Signature]
7/23/12

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12071203-02A
Client I.D. Number: WCW-7

Sampled: 07/10/12 08:30
Received: 07/12/12
Extracted: 07/20/12
Analyzed: 07/20/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	0.84	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	2.1	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	16	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	97	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	105	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12071203-03A
Client I.D. Number: EB-2

Sampled: 07/10/12 08:40
Received: 07/12/12
Extracted: 07/20/12
Analyzed: 07/20/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	0.50 µg/L	1.0 µg/L	72 Surr: 1,2-Dichloroethane-d4	111	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	95	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	104	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12071203-04A
Client I.D. Number: DUP-1

Sampled: 07/10/12 00:00
Received: 07/12/12
Extracted: 07/20/12
Analyzed: 07/20/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	0.71	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	1.6	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	15	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	119	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	96	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	106	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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[Signature]
7/23/12

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12071203-05A
Client I.D. Number: GMW-O-1

Sampled: 07/10/12 09:17
Received: 07/12/12
Extracted: 07/20/12
Analyzed: 07/20/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	107	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	96	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	105	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12071203-06A
Client I.D. Number: GMW-O-2

Sampled: 07/10/12 09:51
Received: 07/12/12
Extracted: 07/20/12
Analyzed: 07/20/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	107	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	96	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	106	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12071203-07A
Client I.D. Number: GMW-O-3

Sampled: 07/10/12 10:27
Received: 07/12/12
Extracted: 07/20/12
Analyzed: 07/20/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	108	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	96	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	105	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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[Signature]
7/23/12

Report Date

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Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12071203-08A
Client I.D. Number: GMW-O-14

Sampled: 07/10/12 11:29
Received: 07/12/12
Extracted: 07/20/12
Analyzed: 07/20/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	100 µg/L	45 Chlorobenzene	ND	100 µg/L
2 Chloromethane	ND	400 µg/L	46 Ethylbenzene	1,200	50 µg/L
3 Vinyl chloride	ND	100 µg/L	47 m,p-Xylene	2,200	50 µg/L
4 Chloroethane	ND	100 µg/L	48 Bromoform	ND	100 µg/L
5 Bromomethane	ND	400 µg/L	49 Xylenes, Total	3,700	50 µg/L
6 Trichlorofluoromethane	ND	100 µg/L	50 Styrene	ND	100 µg/L
7 Acetone	2,000	µg/L	51 o-Xylene	1,500	50 µg/L
8 1,1-Dichloroethene	ND	100 µg/L	52 1,1,2,2-Tetrachloroethane	ND	100 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	1,000 µg/L	53 1,2,3-Trichloropropane	ND	400 µg/L
10 Dichloromethane	ND	400 µg/L	54 Isopropylbenzene	ND	100 µg/L
11 Freon-113	ND	100 µg/L	55 Bromobenzene	ND	100 µg/L
12 Carbon disulfide	ND	500 µg/L	56 n-Propylbenzene	ND	100 µg/L
13 trans-1,2-Dichloroethene	ND	100 µg/L	57 4-Chlorotoluene	ND	100 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	50 µg/L	58 2-Chlorotoluene	ND	100 µg/L
15 1,1-Dichloroethane	ND	100 µg/L	59 1,3,5-Trimethylbenzene	130	100 µg/L
16 Vinyl acetate	ND	10,000 µg/L	60 tert-Butylbenzene	ND	100 µg/L
17 2-Butanone (MEK)	ND	2,000 µg/L	61 1,2,4-Trimethylbenzene	630	100 µg/L
18 Di-isopropyl Ether (DIPE)	270	µg/L	62 sec-Butylbenzene	ND	100 µg/L
19 cis-1,2-Dichloroethene	ND	100 µg/L	63 1,3-Dichlorobenzene	ND	100 µg/L
20 Bromochloromethane	ND	100 µg/L	64 1,4-Dichlorobenzene	ND	100 µg/L
21 Chloroform	ND	100 µg/L	65 4-Isopropyltoluene	ND	100 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	100 µg/L	66 1,2-Dichlorobenzene	ND	100 µg/L
23 2,2-Dichloropropane	ND	100 µg/L	67 n-Butylbenzene	ND	100 µg/L
24 1,2-Dichloroethane	ND	100 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	600 µg/L
25 1,1,1-Trichloroethane	ND	100 µg/L	69 1,2,4-Trichlorobenzene	ND	400 µg/L
26 1,1-Dichloropropene	ND	100 µg/L	70 Naphthalene	ND	400 µg/L
27 Carbon tetrachloride	ND	100 µg/L	71 1,2,3-Trichlorobenzene	ND	400 µg/L
28 Benzene	12,000	µg/L	72 Surr: 1,2-Dichloroethane-d4	106	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	100 µg/L	73 Surr: Toluene-d8	95	(70-130) %REC
30 Dibromomethane	ND	100 µg/L	74 Surr: 4-Bromofluorobenzene	105	(70-130) %REC
31 1,2-Dichloropropane	ND	100 µg/L			
32 Trichloroethene	ND	100 µg/L			
33 Bromodichloromethane	ND	100 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	500 µg/L			
35 cis-1,3-Dichloropropene	ND	100 µg/L			
36 trans-1,3-Dichloropropene	ND	100 µg/L			
37 1,1,2-Trichloroethane	ND	100 µg/L			
38 Toluene	3,500	µg/L			
39 1,3-Dichloropropane	ND	100 µg/L			
40 2-Hexanone	ND	1,000 µg/L			
41 Dibromochloromethane	ND	100 µg/L			
42 1,2-Dibromoethane (EDB)	ND	200 µg/L			
43 Tetrachloroethene	ND	100 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	100 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 • Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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7/23/12

Report Date

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12071203-09A
Client I.D. Number: DUP-2

Sampled: 07/10/12 00:00
Received: 07/12/12
Extracted: 07/20/12
Analyzed: 07/20/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	100 µg/L	45 Chlorobenzene	ND	100 µg/L
2 Chloromethane	ND	400 µg/L	46 Ethylbenzene	1,200	50 µg/L
3 Vinyl chloride	ND	100 µg/L	47 m,p-Xylene	2,200	50 µg/L
4 Chloroethane	ND	100 µg/L	48 Bromoform	ND	100 µg/L
5 Bromomethane	ND	400 µg/L	49 Xylenes, Total	3,700	50 µg/L
6 Trichlorofluoromethane	ND	100 µg/L	50 Styrene	ND	100 µg/L
7 Acetone	2,000	µg/L	51 o-Xylene	1,500	50 µg/L
8 1,1-Dichloroethene	ND	100 µg/L	52 1,1,2,2-Tetrachloroethane	ND	100 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	1,000 µg/L	53 1,2,3-Trichloropropane	ND	400 µg/L
10 Dichloromethane	ND	400 µg/L	54 Isopropylbenzene	ND	100 µg/L
11 Freon-113	ND	100 µg/L	55 Bromobenzene	ND	100 µg/L
12 Carbon disulfide	ND	500 µg/L	56 n-Propylbenzene	ND	100 µg/L
13 trans-1,2-Dichloroethene	ND	100 µg/L	57 4-Chlorotoluene	ND	100 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	50 µg/L	58 2-Chlorotoluene	ND	100 µg/L
15 1,1-Dichloroethane	ND	100 µg/L	59 1,3,5-Trimethylbenzene	130	100 µg/L
16 Vinyl acetate	ND	10,000 µg/L	60 tert-Butylbenzene	ND	100 µg/L
17 2-Butanone (MEK)	ND	2,000 µg/L	61 1,2,4-Trimethylbenzene	630	100 µg/L
18 Di-isopropyl Ether (DIPE)	270	µg/L	62 sec-Butylbenzene	ND	100 µg/L
19 cis-1,2-Dichloroethene	ND	100 µg/L	63 1,3-Dichlorobenzene	ND	100 µg/L
20 Bromochloromethane	ND	100 µg/L	64 1,4-Dichlorobenzene	ND	100 µg/L
21 Chloroform	ND	100 µg/L	65 4-Isopropyltoluene	ND	100 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	100 µg/L	66 1,2-Dichlorobenzene	ND	100 µg/L
23 2,2-Dichloropropane	ND	100 µg/L	67 n-Butylbenzene	ND	100 µg/L
24 1,2-Dichloroethane	ND	100 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	600 µg/L
25 1,1,1-Trichloroethane	ND	100 µg/L	69 1,2,4-Trichlorobenzene	ND	400 µg/L
26 1,1-Dichloropropene	ND	100 µg/L	70 Naphthalene	ND	400 µg/L
27 Carbon tetrachloride	ND	100 µg/L	71 1,2,3-Trichlorobenzene	ND	400 µg/L
28 Benzene	12,000	50 µg/L	72 Surr: 1,2-Dichloroethane-d4	107	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	100 µg/L	73 Surr: Toluene-d8	95	(70-130) %REC
30 Dibromomethane	ND	100 µg/L	74 Surr: 4-Bromofluorobenzene	105	(70-130) %REC
31 1,2-Dichloropropane	ND	100 µg/L			
32 Trichloroethene	ND	100 µg/L			
33 Bromodichloromethane	ND	100 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	500 µg/L			
35 cis-1,3-Dichloropropene	ND	100 µg/L			
36 trans-1,3-Dichloropropene	ND	100 µg/L			
37 1,1,2-Trichloroethane	ND	100 µg/L			
38 Toluene	3,400	50 µg/L			
39 1,3-Dichloropropane	ND	100 µg/L			
40 2-Hexanone	ND	1,000 µg/L			
41 Dibromochloromethane	ND	100 µg/L			
42 1,2-Dibromoethane (EDB)	ND	200 µg/L			
43 Tetrachloroethene	ND	100 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	100 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger Scholl *Randy Gardner* *Walter Hinchman*

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[Signature]
7/23/12

Report Date



Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12071203-10A
Client I.D. Number: GMW-O-16

Sampled: 07/10/12 12:30
Received: 07/12/12
Extracted: 07/20/12
Analyzed: 07/20/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	0.70	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	0.70	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	0.57	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	2.5	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	107	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	96	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	105	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	1.1	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12071203-11A
Client I.D. Number: GMW-O-19

Sampled: 07/10/12 12:58
Received: 07/12/12
Extracted: 07/20/12
Analyzed: 07/20/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	107	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	95	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	106	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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7/23/12

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12071203-12A
Client I.D. Number: GMW-38

Sampled: 07/10/12 13:47
Received: 07/12/12
Extracted: 07/20/12
Analyzed: 07/20/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	109	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	95	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	107	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

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JG
7/23/12

Report Date

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ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMFP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12071203-13A
Client I.D. Number: GMW-39

Sampled: 07/10/12 14:26
Received: 07/12/12
Extracted: 07/20/12
Analyzed: 07/20/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	108	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	96	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	106	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl *Randy Gardner* *Walter Hinchman*
Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 • Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered in any way.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

7/23/12

Report Date

Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12071203-14A
Client I.D. Number: PZ-5

Sampled: 07/10/12 15:03
Received: 07/12/12
Extracted: 07/20/12
Analyzed: 07/20/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	20 µg/L	45 Chlorobenzene	ND	20 µg/L
2 Chloromethane	ND	80 µg/L	46 Ethylbenzene	150	10 µg/L
3 Vinyl chloride	ND	20 µg/L	47 m,p-Xylene	55	10 µg/L
4 Chloroethane	ND	20 µg/L	48 Bromoform	ND	20 µg/L
5 Bromomethane	ND	80 µg/L	49 Xylenes, Total	200	10 µg/L
6 Trichlorofluoromethane	ND	20 µg/L	50 Styrene	ND	20 µg/L
7 Acetone	ND	400 µg/L	51 o-Xylene	140	10 µg/L
8 1,1-Dichloroethene	ND	20 µg/L	52 1,1,2,2-Tetrachloroethane	ND	20 µg/L
9 Tertiary Butyl Alcohol (TBA)	66,000	1,000 µg/L	53 1,2,3-Trichloropropane	ND	80 µg/L
10 Dichloromethane	ND	80 µg/L	54 Isopropylbenzene	ND	20 µg/L
11 Freon-113	ND	20 µg/L	55 Bromobenzene	ND	20 µg/L
12 Carbon disulfide	ND	100 µg/L	56 n-Propylbenzene	ND	20 µg/L
13 trans-1,2-Dichloroethene	ND	20 µg/L	57 4-Chlorotoluene	ND	20 µg/L
14 Methyl tert-butyl ether (MTBE)	700	10 µg/L	58 2-Chlorotoluene	ND	20 µg/L
15 1,1-Dichloroethane	ND	20 µg/L	59 1,3,5-Trimethylbenzene	ND	20 µg/L
16 Vinyl acetate	ND	2,000 µg/L	60 tert-Butylbenzene	ND	20 µg/L
17 2-Butanone (MEK)	ND	400 µg/L	61 1,2,4-Trimethylbenzene	35	20 µg/L
18 Di-isopropyl Ether (DIPE)	ND	20 µg/L	62 sec-Butylbenzene	ND	20 µg/L
19 cis-1,2-Dichloroethene	ND	20 µg/L	63 1,3-Dichlorobenzene	ND	20 µg/L
20 Bromochloromethane	ND	20 µg/L	64 1,4-Dichlorobenzene	ND	20 µg/L
21 Chloroform	ND	20 µg/L	65 4-Isopropyltoluene	ND	20 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/L	66 1,2-Dichlorobenzene	ND	20 µg/L
23 2,2-Dichloropropane	ND	20 µg/L	67 n-Butylbenzene	ND	20 µg/L
24 1,2-Dichloroethane	ND	20 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	120 µg/L
25 1,1,1-Trichloroethane	ND	20 µg/L	69 1,2,4-Trichlorobenzene	ND	80 µg/L
26 1,1-Dichloropropene	ND	20 µg/L	70 Naphthalene	ND	80 µg/L
27 Carbon tetrachloride	ND	20 µg/L	71 1,2,3-Trichlorobenzene	ND	80 µg/L
28 Benzene	3,400	10 µg/L	72 Surr: 1,2-Dichloroethane-d4	105	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/L	73 Surr: Toluene-d8	93	(70-130) %REC
30 Dibromomethane	ND	20 µg/L	74 Surr: 4-Bromofluorobenzene	106	(70-130) %REC
31 1,2-Dichloropropane	ND	20 µg/L			
32 Trichloroethene	ND	20 µg/L			
33 Bromodichloromethane	ND	20 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	100 µg/L			
35 cis-1,3-Dichloropropene	ND	20 µg/L			
36 trans-1,3-Dichloropropene	ND	20 µg/L			
37 1,1,2-Trichloroethane	ND	20 µg/L			
38 Toluene	31	10 µg/L			
39 1,3-Dichloropropane	ND	20 µg/L			
40 2-Hexanone	ND	200 µg/L			
41 Dibromochloromethane	ND	20 µg/L			
42 1,2-Dibromoethane (EDB)	ND	40 µg/L			
43 Tetrachloroethene	ND	20 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	20 µg/L			

*This analyte was analyzed separately in order to achieve lower reporting limits for the other analytes.

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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PS
7/23/12

Report Date

Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

VOC Sample Preservation Report

Work Order: CHH12071203

Job: KMEP DFSP Norwalk

Alpha's Sample ID	Client's Sample ID	Matrix	pH
12071203-01A	TB-2	Aqueous	2
12071203-02A	WCW-7	Aqueous	2
12071203-03A	EB-2	Aqueous	2
12071203-04A	DUP-1	Aqueous	2
12071203-05A	GMW-O-1	Aqueous	2
12071203-06A	GMW-O-2	Aqueous	2
12071203-07A	GMW-O-3	Aqueous	2
12071203-08A	GMW-O-14	Aqueous	6
12071203-09A	DUP-2	Aqueous	2
12071203-10A	GMW-O-16	Aqueous	2
12071203-11A	GMW-O-19	Aqueous	2
12071203-12A	GMW-38	Aqueous	2
12071203-13A	GMW-39	Aqueous	2
12071203-14A	PZ-5	Aqueous	2
12071203-14A	PZ-5	Aqueous	6

7/23/12
Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
20-Jul-12

QC Summary Report

Work Order:
12071203

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8015B/C Ext**

File ID: **2A07121205.D**

Batch ID: **29062**

Analysis Date: **07/12/2012 14:55**

Sample ID: **MBLK-29062**

Units : **mg/L**

Run ID: **FID_2_120712A**

Prep Date: **07/12/2012 13:39**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	ND	0.05								
Surr: Nonane	0.177		0.15		118	49	145			

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8015B/C Ext**

File ID: **2A07121206.D**

Batch ID: **29062**

Analysis Date: **07/12/2012 15:21**

Sample ID: **LCS-29062**

Units : **mg/L**

Run ID: **FID_2_120712A**

Prep Date: **07/12/2012 13:39**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.13	0.05	2.5		85	70	130			
Surr: Nonane	0.137		0.15		91	49	145			

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8015B/C Ext**

File ID: **2A07121229.D**

Batch ID: **29062**

Analysis Date: **07/13/2012 01:06**

Sample ID: **12071221-06AMS**

Units : **mg/L**

Run ID: **FID_2_120712A**

Prep Date: **07/12/2012 13:39**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.67	0.05	2.5	0	107	53	150			
Surr: Nonane	0.11		0.15		73	49	145			

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8015B/C Ext**

File ID: **2A07121230.D**

Batch ID: **29062**

Analysis Date: **07/13/2012 01:31**

Sample ID: **12071221-06AMSD**

Units : **mg/L**

Run ID: **FID_2_120712A**

Prep Date: **07/12/2012 13:39**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.24	0.05	2.5	0	89	53	150	2.665	17.6(47)	
Surr: Nonane	0.134		0.15		89	49	145			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
24-Jul-12

QC Summary Report

Work Order:
12071203

Method Blank

File ID: 12071937.D

Type: MBLK Test Code: EPA Method SW8015B/C

Batch ID: MS15W0719D

Analysis Date: 07/19/2012 23:20

Sample ID: MBLK MS15W0719D

Units : mg/L

Run ID: MSD_15_120719A

Prep Date: 07/19/2012 23:20

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	0.05								
Surr: 1,2-Dichloroethane-d4	0.0106		0.01		106	70	130			
Surr: Toluene-d8	0.00961		0.01		96	70	130			
Surr: 4-Bromofluorobenzene	0.0105		0.01		105	70	130			

Laboratory Control Spike

File ID: 12071934.D

Type: LCS Test Code: EPA Method SW8015B/C

Batch ID: MS15W0719D

Analysis Date: 07/19/2012 22:15

Sample ID: GLCS MS15W0719D

Units : mg/L

Run ID: MSD_15_120719A

Prep Date: 07/19/2012 22:15

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.406	0.05	0.4		102	70	130			
Surr: 1,2-Dichloroethane-d4	0.0104		0.01		104	70	130			
Surr: Toluene-d8	0.00947		0.01		95	70	130			
Surr: 4-Bromofluorobenzene	0.0103		0.01		103	70	130			

Sample Matrix Spike

File ID: 12071940.D

Type: MS Test Code: EPA Method SW8015B/C

Batch ID: MS15W0719D

Analysis Date: 07/20/2012 00:25

Sample ID: 12071602-01AGS

Units : mg/L

Run ID: MSD_15_120719A

Prep Date: 07/20/2012 00:25

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.3	0.25	2	0.09786	110	51	144			
Surr: 1,2-Dichloroethane-d4	0.0518		0.05		104	70	130			
Surr: Toluene-d8	0.0472		0.05		94	70	130			
Surr: 4-Bromofluorobenzene	0.0521		0.05		104	70	130			

Sample Matrix Spike Duplicate

File ID: 12071941.D

Type: MSD Test Code: EPA Method SW8015B/C

Batch ID: MS15W0719D

Analysis Date: 07/20/2012 00:47

Sample ID: 12071602-01AGSD

Units : mg/L

Run ID: MSD_15_120719A

Prep Date: 07/20/2012 00:47

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.54	0.25	2	0.09786	122	51	144	2.297	9.9(29)	
Surr: 1,2-Dichloroethane-d4	0.0514		0.05		103	70	130			
Surr: Toluene-d8	0.0476		0.05		95	70	130			
Surr: 4-Bromofluorobenzene	0.0523		0.05		105	70	130			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Alpha Analytical, Inc.

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Date: 24-Jul-12 **QC Summary Report** Work Order: 12071203

n-Butylbenzene	ND	1				
1,2-Dibromo-3-chloropropane (DBCP)	ND	5				
1,2,4-Trichlorobenzene	ND	2				
Naphthalene	ND	10				
1,2,3-Trichlorobenzene	ND	2				
Xylenes, Total	ND	0.5				
Surr: 1,2-Dichloroethane-d4	10.6		10	106	70	130
Surr: Toluene-d8	9.61		10	96	70	130
Surr: 4-Bromofluorobenzene	10.5		10	105	70	130

Laboratory Control Spike

Type: LCS Test Code: EPA Method SW8260B

File ID: 12071933.D

Batch ID: MS15W0719C

Analysis Date: 07/19/2012 21:53

Sample ID: LCS MS15W0719C

Units: µg/L

Run ID: MSD_15_120719A

Prep Date: 07/19/2012 21:53

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	10.1	1	10		101	80	120			
Methyl tert-butyl ether (MTBE)	9.56	0.5	10		96	65	140			
Benzene	10.1	0.5	10		101	70	130			
Trichloroethene	9.88	1	10		99	65	144			
Toluene	9.17	0.5	10		92	80	120			
Chlorobenzene	9.53	1	10		95	70	130			
Ethylbenzene	9.55	0.5	10		96	80	120			
m,p-Xylene	8.93	0.5	10		89	70	130			
o-Xylene	9.18	0.5	10		92	70	130			
Xylenes, Total	18.1	0.5	20		91	70	130			
Surr: 1,2-Dichloroethane-d4	10.7		10		107	70	130			
Surr: Toluene-d8	9.37		10		94	70	130			
Surr: 4-Bromofluorobenzene	10.6		10		106	70	130			

Sample Matrix Spike

Type: MS Test Code: EPA Method SW8260B

File ID: 12071938.D

Batch ID: MS15W0719C

Analysis Date: 07/19/2012 23:42

Sample ID: 12071602-01AMS

Units: µg/L

Run ID: MSD_15_120719A

Prep Date: 07/19/2012 23:42

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	51.5	2.5	50	0	103	64	130			
Methyl tert-butyl ether (MTBE)	90.8	1.3	50	40.01	102	47	150			
Benzene	57.8	1.3	50	2.47	111	59	138			
Trichloroethene	52.2	2.5	50	1.05	102	65	144			
Toluene	49.5	1.3	50	0	99	68	130			
Chlorobenzene	51.5	2.5	50	0	103	70	130			
Ethylbenzene	51.5	1.3	50	0	103	68	130			
m,p-Xylene	48.1	1.3	50	0	96	68	131			
o-Xylene	49.9	1.3	50	0	99.8	70	130			
Xylenes, Total	98	1.3	100	0	98	70	130			
Surr: 1,2-Dichloroethane-d4	52.6		50		105	70	130			
Surr: Toluene-d8	46.5		50		93	70	130			
Surr: 4-Bromofluorobenzene	53		50		106	70	130			

Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8260B

File ID: 12071939.D

Batch ID: MS15W0719C

Analysis Date: 07/20/2012 00:03

Sample ID: 12071602-01AMSD

Units: µg/L

Run ID: MSD_15_120719A

Prep Date: 07/20/2012 00:03

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	55.5	2.5	50	0	111	64	130	51.47	7.5(21)	
Methyl tert-butyl ether (MTBE)	98.1	1.3	50	40.01	116	47	150	90.82	7.7(40)	
Benzene	61.6	1.3	50	2.47	118	59	138	57.8	6.4(21)	
Trichloroethene	56.4	2.5	50	1.05	111	65	144	52.24	7.6(20)	
Toluene	54.2	1.3	50	0	108	68	130	49.5	9.0(20)	
Chlorobenzene	55.7	2.5	50	0	111	70	130	51.53	7.8(20)	
Ethylbenzene	55.9	1.3	50	0	112	68	130	51.48	8.3(20)	
m,p-Xylene	52.2	1.3	50	0	104	68	131	48.11	8.2(20)	
o-Xylene	53.9	1.3	50	0	108	70	130	49.89	7.8(20)	
Xylenes, Total	106	1.3	100	0	106	70	130	98	8.0(20)	
Surr: 1,2-Dichloroethane-d4	52.5		50		105	70	130			
Surr: Toluene-d8	47.1		50		94	70	130			
Surr: 4-Bromofluorobenzene	53		50		106	70	130			



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:

24-Jul-12

QC Summary Report

Work Order:

12071203

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778

TEL: (775) 355-1044 FAX: (775) 355-0406

CA

WorkOrder : CHHL12071203

Report Due By : 5:00 PM On : 23-Jul-12

Client:

CH2M Hill
1000 Wilshire Boulevard
21st Floor
Los Angeles, CA 90017

Report Attention	Phone Number	EMail Address
Daniel Jablonski	(213) 228-8271 x	daniel.jablonski@ch2m.com
Matthew Mayry	(213) 228-8271 x	matthew.mayry@ch2m.com

EDD Required : Yes

Sampled by : D. Reynal

PO :

Client's COC # : none

Job : KMEP DFSP Norwalk

Cooler Temp	Samples Received	Date Printed
5 °C	12-Jul-12	12-Jul-12

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha	No. of Bottles Sub	TAT	Requested Tests			Sample Remarks
						TPH/E_W	TPH/P_W	VOC_W	
CHH12071203-01A	TB-2	AQ 07/10/12 07:00	2	0	7			TPHE(0.05) +Vinyl acetate	Reno Trip Blanks 6/25/12, 7/10/12
CHH12071203-02A	WCW-7	AQ 07/10/12 08:30	6	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	
CHH12071203-03A	EB-2	AQ 07/10/12 08:40	6	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	
CHH12071203-04A	DUP-1	AQ 07/10/12 00:00	6	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	
CHH12071203-05A	GMW-O-1	AQ 07/10/12 09:17	6	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	
CHH12071203-06A	GMW-O-2	AQ 07/10/12 09:51	6	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	
CHH12071203-07A	GMW-O-3	AQ 07/10/12 10:27	6	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	
CHH12071203-08A	GMW-O-14	AQ 07/10/12 11:29	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	1 VOA received Broken

Comments: Security seals intact. Frozen Ice. 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>Savaloft</i>	Savaloft	Alpha Analytical, Inc.	7/2/12 11:10

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

CHAIN-OF-CUSTODY RECORD

CA

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : CHHL12071203
Report Due By : 5:00 PM On : 23-Jul-12

Client:
 CH2M Hill
 1000 Wilshire Boulevard
 21st Floor
 Los Angeles, CA 90017

Report Attention	Phone Number	E-Mail Address
Daniel Jablonski	(213) 228-8271 x	daniel.jablonski@ch2m.com
Matthew Mayry	(213) 228-8271 x	matthew.mayry@ch2m.com

EDD Required : Yes

Sampled by : D. Reynal

PO :
 Client's COC # : none Job : KMEP DFSP Norwalk

Cooler Temp	Samples Received	Date Printed
5 °C	12-Jul-12	12-Jul-12

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	Date	No. of Bottles			Requested Tests			Sample Remarks
				Alpha	Sub	TAT	TPHE_W	TPHE_P_W	VOC_W	
CHH12071203-09A	DUP-2	AQ	07/10/12 00:00	6	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	
CHH12071203-10A	GMW-O-16	AQ	07/10/12 12:30	6	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	
CHH12071203-11A	GMW-O-19	AQ	07/10/12 12:58	6	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	
CHH12071203-12A	GMW-38	AQ	07/10/12 13:47	6	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	
CHH12071203-13A	GMW-39	AQ	07/10/12 14:26	6	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	
CHH12071203-14A	PZ-5	AQ	07/10/12 15:03	6	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	

Comments: Security seals intact. Frozen Ice. 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>Sara Coffee</i>	Sara Coffee	Alpha Analytical, Inc.	7/12/12 11:10

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) 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 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

120709-Dr1

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	7/10/12	0700	AQ	2	ITCL	40ml UOAS		X										CHH12071203-01
WCW-7		0830	AQ	6	ITCL		X	X										02A
EB-2		0840	AQ	6	ITCL		X	X										03A
DUP-1			AQ	6	ITCL		X	X										04A
GMW-0-1		0917	AQ	6	ITCL		X	X										05A
GMW-0-2		0951	AQ	6	ITCL		X	X										06A
GMW-0-3		1027	AQ	6	ITCL		X	X										07A
GMW-0-14		1129	AQ	6	ITCL		X	X										08A
DUP-2			AQ	6	ITCL		X	X										09A
GMW-0-16		1230	AQ	6	ITCL		X	X										10A

SAMPLING COMPLETED Dr 7/10/12 1555 SAMPLING PERFORMED BY D. Raymond

RESULTS NEEDED NO LATER THAN Standard

RELEASED BY <u>[Signature]</u>	TIME <u>1600</u>	RECEIVED BY <u>Nicole (SC)</u>	DATE <u>7/10/12</u>	TIME <u>1600</u>
RELEASED BY <u>Nicole (SC)</u>	TIME <u>1730</u>	RECEIVED BY <u>[Signature]</u>	DATE <u>7/11/12</u>	TIME <u>1730</u>
RELEASED BY <u>[Signature]</u>	TIME <u>1730</u>	RECEIVED BY <u>[Signature]</u>	DATE <u>7/12/12</u>	TIME <u>9:30</u>
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 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 120709-Dr1

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											
GMW-019	7/10/12	1258	AQ	Water	6	HCL	4 gen' vials	X	X								117
GMW-38		1347	AQ		6	HCL		X	X								120
GMW-39		1426	AQ		6	HCL		X	X								121
PZ-5		1503	AQ		6	HCL		X	X								122

SAMPLING COMPLETED 7/10/12 1555 SAMPLING PERFORMED BY D. Reynal RESULTS NEEDED NO LATER THAN Standard

RELEASED BY [Signature] TIME 1600 RECEIVED BY Nicole (sc) DATE 7/10/12 TIME 1600

RELEASED BY Nicole (sc) TIME 1730 RECEIVED BY [Signature] DATE 7/11/12 TIME 1730

RELEASED BY [Signature] TIME 1730 RECEIVED BY Wendy Cooper DATE 7/12/12 TIME 9:33

SHIPPED VIA _____ TIME SENT _____ COOLER # _____



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135
Date Received : 07/12/12

Job: KMEP DFSP Norwalk

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID :	EXP-5				
Lab ID :	TPH-E (DRO)	ND	0.050 mg/L	07/12/12	07/13/12
Date Sampled	Surr: Nonane	119	(49-145) %REC	07/12/12	07/13/12
	TPH-P (GRO)	ND	0.050 mg/L	07/16/12	07/16/12
	Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC	07/16/12	07/16/12
	Surr: Toluene-d8	97	(70-130) %REC	07/16/12	07/16/12
	Surr: 4-Bromofluorobenzene	105	(70-130) %REC	07/16/12	07/16/12
Client ID :	EB-1				
Lab ID :	TPH-E (DRO)	ND	0.050 mg/L	07/12/12	07/13/12
Date Sampled	Surr: Nonane	112	(49-145) %REC	07/12/12	07/13/12
	TPH-P (GRO)	ND	0.050 mg/L	07/16/12	07/16/12
	Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC	07/16/12	07/16/12
	Surr: Toluene-d8	97	(70-130) %REC	07/16/12	07/16/12
	Surr: 4-Bromofluorobenzene	105	(70-130) %REC	07/16/12	07/16/12
Client ID :	WCW-13				
Lab ID :	TPH-E (DRO)	ND	0.050 mg/L	07/12/12	07/13/12
Date Sampled	Surr: Nonane	114	(49-145) %REC	07/12/12	07/13/12
	TPH-P (GRO)	ND	0.050 mg/L	07/16/12	07/16/12
	Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC	07/16/12	07/16/12
	Surr: Toluene-d8	97	(70-130) %REC	07/16/12	07/16/12
	Surr: 4-Bromofluorobenzene	104	(70-130) %REC	07/16/12	07/16/12
Client ID :	WCW-3				
Lab ID :	TPH-E (DRO)	ND	0.050 mg/L	07/12/12	07/13/12
Date Sampled	Surr: Nonane	117	(49-145) %REC	07/12/12	07/13/12
	TPH-P (GRO)	ND	0.050 mg/L	07/16/12	07/16/12
	Surr: 1,2-Dichloroethane-d4	104	(70-130) %REC	07/16/12	07/16/12
	Surr: Toluene-d8	97	(70-130) %REC	07/16/12	07/16/12
	Surr: 4-Bromofluorobenzene	106	(70-130) %REC	07/16/12	07/16/12
Client ID :	EXP-1				
Lab ID :	TPH-E (DRO)	ND	0.050 mg/L	07/12/12	07/13/12
Date Sampled	Surr: Nonane	107	(49-145) %REC	07/12/12	07/13/12
	TPH-P (GRO)	ND	0.050 mg/L	07/16/12	07/16/12
	Surr: 1,2-Dichloroethane-d4	103	(70-130) %REC	07/16/12	07/16/12
	Surr: Toluene-d8	97	(70-130) %REC	07/16/12	07/16/12
	Surr: 4-Bromofluorobenzene	105	(70-130) %REC	07/16/12	07/16/12
Client ID :	EXP-2				
Lab ID :	TPH-E (DRO)	ND	0.10 mg/L	07/12/12	07/13/12
Date Sampled	Surr: Nonane	115	(49-145) %REC	07/12/12	07/13/12
	TPH-P (GRO)	ND	0.050 mg/L	07/16/12	07/16/12
	Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC	07/16/12	07/16/12
	Surr: Toluene-d8	97	(70-130) %REC	07/16/12	07/16/12
	Surr: 4-Bromofluorobenzene	105	(70-130) %REC	07/16/12	07/16/12



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Client ID:	EXP-3						
Lab ID:	CHH12071202-08A	TPH-E (DRO)	0.19	L, C	0.050 mg/L	07/12/12	07/13/12
Date Sampled	07/09/12 09:22	Surr: Nonane	130		(49-145) %REC	07/12/12	07/13/12
		TPH-P (GRO)	ND		0.050 mg/L	07/16/12	07/16/12
		Surr: 1,2-Dichloroethane-d4	104		(70-130) %REC	07/16/12	07/16/12
		Surr: Toluene-d8	97		(70-130) %REC	07/16/12	07/16/12
		Surr: 4-Bromofluorobenzene	103		(70-130) %REC	07/16/12	07/16/12

C = Reported concentration includes additional compounds uncharacteristic of common fuels and lubricants.

Diesel Range Organics (DRO) C13-C22

Gasoline Range Organics (GRO) C4-C13

L = DRO concentration may include contributions from heavier-end hydrocarbons that elute in the DRO range.

X = Reporting Limits were increased due to sample matrix interferences.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered in any way.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

7/20/12

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12071202-01A
Client I.D. Number: TB-1

Sampled: 07/09/12 12:30
Received: 07/12/12
Extracted: 07/16/12
Analyzed: 07/16/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	97	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	106	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered in any way.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

[Signature]

7/20/12

Report Date

Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12071202-02A
Client I.D. Number: EXP-5

Sampled: 07/09/12 13:47
Received: 07/12/12
Extracted: 07/16/12
Analyzed: 07/16/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	97	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	105	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12071202-03A
Client I.D. Number: EB-1

Sampled: 07/09/12 13:57
Received: 07/12/12
Extracted: 07/16/12
Analyzed: 07/16/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	97	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	105	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12071202-04A
Client I.D. Number: WCW-13

Sampled: 07/09/12 14:42
Received: 07/12/12
Extracted: 07/16/12
Analyzed: 07/16/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	97	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	104	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12071202-05A
Client I.D. Number: WCW-3

Sampled: 07/09/12 15:23
Received: 07/12/12
Extracted: 07/16/12
Analyzed: 07/16/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	2.2	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	104	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	97	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	106	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

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Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12071202-06A
Client I.D. Number: EXP-1

Sampled: 07/09/12 08:09
Received: 07/12/12
Extracted: 07/16/12
Analyzed: 07/16/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	103	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	97	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	105	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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PS

7/20/12

Report Date

Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12071202-07A
Client I.D. Number: EXP-2

Sampled: 07/09/12 08:47
Received: 07/12/12
Extracted: 07/16/12
Analyzed: 07/16/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	97	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	105	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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7/20/12

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12071202-08A
Client I.D. Number: EXP-3

Sampled: 07/09/12 09:22
Received: 07/12/12
Extracted: 07/16/12
Analyzed: 07/16/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	1.0 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	1.0 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	104	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	97	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	103	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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7/20/12

Report Date

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

VOC Sample Preservation Report

Work Order: CHH12071202

Job: KMEP DFSP Norwalk

Alpha's Sample ID	Client's Sample ID	Matrix	pH
12071202-01A	TB-1	Aqueous	
12071202-02A	EXP-5	Aqueous	
12071202-03A	EB-1	Aqueous	
12071202-04A	WCW-13	Aqueous	
12071202-05A	WCW-3	Aqueous	
12071202-06A	EXP-1	Aqueous	
12071202-07A	EXP-2	Aqueous	
12071202-08A	EXP-3	Aqueous	

7/20/12
Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
20-Jul-12

QC Summary Report

Work Order:
12071202

Method Blank

File ID: 2A07121236.D

Sample ID: MBLK-29061

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	ND	0.05								
Surr: Nonane	0.166		0.15		111	49	145			

Type: MBLK

Test Code: EPA Method SW8015B/C Ext

Batch ID: 29061

Analysis Date: 07/13/2012 12:59

Run ID: FID_2_120712B

Prep Date: 07/12/2012 12:47

Laboratory Control Spike

File ID: 2A07121237.D

Sample ID: LCS-29061

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	1.93	0.05	2.5		77	70	130			
Surr: Nonane	0.158		0.15		105	49	145			

Type: LCS

Test Code: EPA Method SW8015B/C Ext

Batch ID: 29061

Analysis Date: 07/13/2012 13:25

Run ID: FID_2_120712B

Prep Date: 07/12/2012 12:47

Sample Matrix Spike

File ID: 2A07121252.D

Sample ID: 12071242-04AMS

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.25	0.05	2.5		0 90	53	150			
Surr: Nonane	0.19		0.15		127	49	145			

Type: MS

Test Code: EPA Method SW8015B/C Ext

Batch ID: 29061

Analysis Date: 07/13/2012 19:47

Run ID: FID_2_120712B

Prep Date: 07/12/2012 12:47

Sample Matrix Spike Duplicate

File ID: 2A07121253.D

Sample ID: 12071242-04AMSD

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.39	0.05	2.5		0 95	53	150	2.251	5.8(47)	
Surr: Nonane	0.146		0.15		97	49	145			

Type: MSD

Test Code: EPA Method SW8015B/C Ext

Batch ID: 29061

Analysis Date: 07/13/2012 20:12

Run ID: FID_2_120712B

Prep Date: 07/12/2012 12:47

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
20-Jul-12

QC Summary Report

Work Order:
12071202

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8015B/C**

File ID: **12071605.D**

Batch ID: **MS15W0716B**

Analysis Date: **07/16/2012 11:27**

Sample ID: **MBLK MS15W0716B**

Units: **mg/L**

Run ID: **MSD_15_120716A**

Prep Date: **07/16/2012 11:27**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	0.05								
Surr: 1,2-Dichloroethane-d4	0.00973		0.01		97	70	130			
Surr: Toluene-d8	0.00984		0.01		98	70	130			
Surr: 4-Bromofluorobenzene	0.0105		0.01		105	70	130			

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8015B/C**

File ID: **12071603.D**

Batch ID: **MS15W0716B**

Analysis Date: **07/16/2012 10:44**

Sample ID: **GLCS MS15W0716B**

Units: **mg/L**

Run ID: **MSD_15_120716A**

Prep Date: **07/16/2012 10:44**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.44	0.05	0.4		110	70	130			
Surr: 1,2-Dichloroethane-d4	0.00954		0.01		95	70	130			
Surr: Toluene-d8	0.00972		0.01		97	70	130			
Surr: 4-Bromofluorobenzene	0.0102		0.01		102	70	130			

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8015B/C**

File ID: **12071621.D**

Batch ID: **MS15W0716B**

Analysis Date: **07/16/2012 17:35**

Sample ID: **12071202-02AGS**

Units: **mg/L**

Run ID: **MSD_15_120716A**

Prep Date: **07/16/2012 17:35**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.14	0.25	2	0	107	51	144			
Surr: 1,2-Dichloroethane-d4	0.0505		0.05		101	70	130			
Surr: Toluene-d8	0.0481		0.05		96	70	130			
Surr: 4-Bromofluorobenzene	0.0507		0.05		101	70	130			

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8015B/C**

File ID: **12071622.D**

Batch ID: **MS15W0716B**

Analysis Date: **07/16/2012 17:57**

Sample ID: **12071202-02AGSD**

Units: **mg/L**

Run ID: **MSD_15_120716A**

Prep Date: **07/16/2012 17:57**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.53	0.25	2	0	126	51	144	2.139	16.7(29)	
Surr: 1,2-Dichloroethane-d4	0.0502		0.05		100	70	130			
Surr: Toluene-d8	0.048		0.05		96	70	130			
Surr: 4-Bromofluorobenzene	0.0497		0.05		99	70	130			

Comments:

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Date:
20-Jul-12

QC Summary Report

Work Order:
12071202

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8260B**

File ID: **12071605.D**

Batch ID: **MS15W0716A**

Analysis Date: **07/16/2012 11:27**

Sample ID: **MBLK MS15W0716A**

Units: **µg/L**

Run ID: **MSD_15_120716A**

Prep Date: **07/16/2012 11:27**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	ND		1							
Chloromethane	ND		2							
Vinyl chloride	ND		0.5							
Chloroethane	ND		1							
Bromomethane	ND		2							
Trichlorofluoromethane	ND		10							
Acetone	ND		10							
1,1-Dichloroethene	ND		1							
Tertiary Butyl Alcohol (TBA)	ND		10							
Dichloromethane	ND		5							
Freon-113	ND		10							
Carbon disulfide	ND		2.5							
trans-1,2-Dichloroethene	ND		1							
Methyl tert-butyl ether (MTBE)	ND		0.5							
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		0.5							
1,1,1-Trichloroethane	ND		1							
1,1-Dichloropropene	ND		1							
Carbon tetrachloride	ND		1							
Benzene	ND		0.5							
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		10							
cis-1,3-Dichloropropene	ND		0.5							
trans-1,3-Dichloropropene	ND		0.5							
1,1,2-Trichloroethane	ND		1							
Toluene	ND		0.5							
1,3-Dichloropropane	ND		1							
2-Hexanone	ND		5							
Dibromochloromethane	ND		1							
1,2-Dibromoethane (EDB)	ND		2							
Tetrachloroethene	ND		1							
1,1,1,2-Tetrachloroethane	ND		1							
Chlorobenzene	ND		1							
Ethylbenzene	ND		0.5							
m,p-Xylene	ND		0.5							
Bromoform	ND		1							
Styrene	ND		1							
o-Xylene	ND		0.5							
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							



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
20-Jul-12

QC Summary Report

Work Order:
12071202

n-Butylbenzene	ND	1				
1,2-Dibromo-3-chloropropane (DBCP)	ND	5				
1,2,4-Trichlorobenzene	ND	2				
Naphthalene	ND	10				
1,2,3-Trichlorobenzene	ND	2				
Xylenes, Total	ND	0.5				
Surr: 1,2-Dichloroethane-d4	9.73		10	97	70	130
Surr: Toluene-d8	9.84		10	98	70	130
Surr: 4-Bromofluorobenzene	10.5		10	105	70	130



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
20-Jul-12

QC Summary Report

Work Order:
12071202

Laboratory Control Spike

Type: LCS

Test Code: EPA Method SW8260B

File ID: 12071602.D

Batch ID: MS15W0716A

Analysis Date: 07/16/2012 10:22

Sample ID: LCS MS15W0716A

Units: µg/L

Run ID: MSD_15_120716A

Prep Date: 07/16/2012 10:22

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	8.53	1	10		85	37	137			
Chloromethane	14.4	2	10		144	43	140			L51
Vinyl chloride	10.7	1	10		107	80	120			
Chloroethane	10.5	1	10		105	43	141			
Bromomethane	10.1	2	10		101	11	160			
Trichlorofluoromethane	10.9	1	10		109	40	148			
Acetone	169	10	200		84	36	171			
1,1-Dichloroethene	9.59	1	10		96	80	120			
Tertiary Butyl Alcohol (TBA)	66.1	10	100		66	44	156			
Dichloromethane	8.71	2	10		87	69	130			
Freon-113	10.8	1	10		108	70	137			
trans-1,2-Dichloroethene	9.86	1	10		99	70	130			
Methyl tert-butyl ether (MTBE)	7.85	0.5	10		79	65	140			
1,1-Dichloroethane	10.3	1	10		103	70	130			
2-Butanone (MEK)	187	10	200		93	23	182			
Di-isopropyl Ether (DIPE)	9.85	1	10		99	70	130			
cis-1,2-Dichloroethene	9.93	1	10		99	70	130			
Bromochloromethane	8.81	1	10		88	70	132			
Chloroform	9.66	1	10		97	80	120			
Ethyl Tertiary Butyl Ether (ETBE)	8.98	1	10		90	65	139			
2,2-Dichloropropane	10.8	1	10		108	68	154			
1,2-Dichloroethane	9.24	1	10		92	70	132			
1,1,1-Trichloroethane	10.1	1	10		101	70	135			
1,1-Dichloropropene	11.1	1	10		111	70	130			
Carbon tetrachloride	9.28	1	10		93	61	148			
Benzene	9.86	0.5	10		99	70	130			
Tertiary Amyl Methyl Ether (TAME)	9.52	1	10		95	68	134			
Dibromomethane	8.98	1	10		90	70	130			
1,2-Dichloropropane	9.71	1	10		97	80	120			
Trichloroethene	9.6	1	10		96	65	144			
Bromodichloromethane	9.31	1	10		93	50	157			
4-Methyl-2-pentanone (MIBK)	21.3	2.5	25		85	20	182			
cis-1,3-Dichloropropene	9.4	1	10		94	70	131			
trans-1,3-Dichloropropene	9.01	1	10		90	70	136			
1,1,2-Trichloroethane	9.1	1	10		91	70	130			
Toluene	9.41	0.5	10		94	80	120			
1,3-Dichloropropane	8.87	1	10		89	70	130			
2-Hexanone	91.3	5	100		91	20	182			
Dibromochloromethane	8.36	1	10		84	42	155			
1,2-Dibromoethane (EDB)	16.8	2	20		84	70	130			
Tetrachloroethene	9.03	1	10		90	70	130			
1,1,1,2-Tetrachloroethane	8.73	1	10		87	70	130			
Chlorobenzene	9.65	1	10		97	70	130			
Ethylbenzene	9.7	0.5	10		97	80	120			
m,p-Xylene	9.31	0.5	10		93	70	130			
Bromoform	7.95	1	10		80	68	143			
Styrene	8.98	1	10		90	64	153			
o-Xylene	9.33	0.5	10		93	70	130			
1,1,2,2-Tetrachloroethane	8.47	1	10		85	70	130			
1,2,3-Trichloropropane	17	2	20		85	70	130			
Isopropylbenzene	11.4	1	10		114	68	138			
Bromobenzene	9.98	1	10		99.8	70	130			
n-Propylbenzene	11.4	1	10		114	70	133			
4-Chlorotoluene	10.7	1	10		107	70	130			
2-Chlorotoluene	10.7	1	10		107	70	130			
1,3,5-Trimethylbenzene	11.8	1	10		118	70	134			
tert-Butylbenzene	11.2	1	10		112	55	147			
1,2,4-Trimethylbenzene	11.4	1	10		114	70	134			
sec-Butylbenzene	11.1	1	10		111	70	135			
1,3-Dichlorobenzene	10.4	1	10		104	70	130			
1,4-Dichlorobenzene	9.85	1	10		99	70	130			
4-Isopropyltoluene	11.6	1	10		116	70	132			
1,2-Dichlorobenzene	9.52	1	10		95	70	130			
n-Butylbenzene	11.2	1	10		112	70	134			
1,2-Dibromo-3-chloropropane (DBCP)	42.7	3	50		85	67	130			



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20-Jul-12

QC Summary Report

Work Order:

12071202

1,2,4-Trichlorobenzene	8.46	2	10	85	67	132
Naphthalene	6.34	2	10	63	38	154
1,2,3-Trichlorobenzene	7.61	2	10	76	56	137
Xylenes, Total	18.6	0.5	20	93	70	130
Surr: 1,2-Dichloroethane-d4	10.5		10	105	70	130
Surr: Toluene-d8	9.78		10	98	70	130
Surr: 4-Bromofluorobenzene	10.5		10	105	70	130



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QC Summary Report

Work Order:
12071202

Sample Matrix Spike

Type: MS Test Code: EPA Method SW8260B

File ID: 12071619.D

Batch ID: MS15W0716A

Analysis Date: 07/16/2012 16:51

Sample ID: 12071208-01AMS

Units: µg/L

Run ID: MSD_15_120716A

Prep Date: 07/16/2012 16:51

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	46.8	2.5	50	0	94	21	138			
Chloromethane	52.1	10	50	0	104	23	144			
Vinyl chloride	56.2	2.5	50	0	112	49	136			
Chloroethane	61.4	2.5	50	0	123	21	159			
Bromomethane	33	10	50	0	66	10	174			
Trichlorofluoromethane	61.9	2.5	50	0	124	32	154			
Acetone	1020	50	1000	0	102	10	171			
1,1-Dichloroethene	52.4	2.5	50	0	105	64	130			
Tertiary Butyl Alcohol (TBA)	457	25	500	0	91	41	157			
Dichloromethane	48.6	10	50	0	97	69	130			
Freon-113	56.3	2.5	50	0	113	55	141			
trans-1,2-Dichloroethene	53.2	2.5	50	0	106	63	130			
Methyl tert-butyl ether (MTBE)	48.3	1.3	50	0	97	47	150			
1,1-Dichloroethane	56.3	2.5	50	0	113	66	130			
2-Butanone (MEK)	1150	50	1000	0	115	23	182			
Di-isopropyl Ether (DIPE)	57.3	2.5	50	0	115	59	139			
cis-1,2-Dichloroethene	54.3	2.5	50	0	109	70	130			
Bromochloromethane	47.8	2.5	50	0	96	70	132			
Chloroform	53.3	2.5	50	0	107	70	130			
Ethyl Tertiary Butyl Ether (ETBE)	53.2	2.5	50	0	106	59	182			
2,2-Dichloropropane	55.9	2.5	50	0	112	38	154			
1,2-Dichloroethane	53.9	2.5	50	0	108	65	134			
1,1,1-Trichloroethane	55.6	2.5	50	0	111	65	136			
1,1-Dichloropropene	59.9	2.5	50	0	120	68	132			
Carbon tetrachloride	49.3	2.5	50	0	99	58	148			
Benzene	53.9	1.3	50	0	108	59	138			
Tertiary Amyl Methyl Ether (TAME)	56.3	2.5	50	0	113	63	135			
Dibromomethane	52.6	2.5	50	0	105	70	130			
1,2-Dichloropropane	54.8	2.5	50	0	110	70	131			
Trichloroethene	51	2.5	50	0	102	65	144			
Bromodichloromethane	51.7	2.5	50	0	103	50	157			
4-Methyl-2-pentanone (MIBK)	142	13	125	0	114	20	182			
cis-1,3-Dichloropropene	50.3	2.5	50	0	101	63	131			
trans-1,3-Dichloropropene	50.8	2.5	50	0	102	65	136			
1,1,2-Trichloroethane	54.3	2.5	50	0	109	70	131			
Toluene	49.2	1.3	50	0	98	68	130			
1,3-Dichloropropane	50.7	2.5	50	0	101	70	130			
2-Hexanone	428	25	500	0	86	20	182			
Dibromochloromethane	46.6	2.5	50	0	93	42	155			
1,2-Dibromoethane (EDB)	97.5	5	100	0	97	70	130			
Tetrachloroethene	45.2	2.5	50	0	90	65	130			
1,1,1,2-Tetrachloroethane	46.3	2.5	50	0	93	70	130			
Chlorobenzene	51.1	2.5	50	0	102	70	130			
Ethylbenzene	51	1.3	50	0	102	68	130			
m,p-Xylene	48.9	1.3	50	0	98	68	131			
Bromoform	45.8	2.5	50	0	92	65	143			
Styrene	48.3	2.5	50	0	97	59	153			
o-Xylene	49.4	1.3	50	0	99	70	130			
1,1,2,2-Tetrachloroethane	51.2	2.5	50	0	102	67	130			
1,2,3-Trichloropropane	101	10	100	0	101	70	130			
Isopropylbenzene	57.2	2.5	50	0	114	55	138			
Bromobenzene	52.6	2.5	50	0	105	70	130			
n-Propylbenzene	56.5	2.5	50	0	113	67	133			
4-Chlorotoluene	54.8	2.5	50	0	110	70	130			
2-Chlorotoluene	54.6	2.5	50	0	109	70	130			
1,3,5-Trimethylbenzene	59.1	2.5	50	0	118	67	134			
tert-Butylbenzene	55.5	2.5	50	0	111	55	147			
1,2,4-Trimethylbenzene	59.3	2.5	50	0	119	65	135			
sec-Butylbenzene	53.4	2.5	50	0	107	68	135			
1,3-Dichlorobenzene	53.8	2.5	50	0	108	70	130			
1,4-Dichlorobenzene	52.2	2.5	50	0	104	70	130			
4-Isopropyltoluene	56.6	2.5	50	0	113	68	132			
1,2-Dichlorobenzene	51.5	2.5	50	0	103	70	130			
n-Butylbenzene	54.9	2.5	50	0	110	62	134			
1,2-Dibromo-3-chloropropane (DBCP)	271	15	250	0	108	64	130			



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QC Summary Report

Work Order:
12071202

1,2,4-Trichlorobenzene	51.5	10	50	0	103	62	133
Naphthalene	49.8	10	50	0	99.6	32	166
1,2,3-Trichlorobenzene	51.4	10	50	0	103	55	138
Xylenes, Total	98.4	1.3	100	0	98	70	130
Surr: 1,2-Dichloroethane-d4	51.6		50		103	70	130
Surr: Toluene-d8	47.3		50		95	70	130
Surr: 4-Bromofluorobenzene	51.6		50		103	70	130



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QC Summary Report

Work Order:
12071202

Date:
20-Jul-12

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8260B**

File ID: **12071620.D**

Batch ID: **MS15W0716A**

Analysis Date: **07/16/2012 17:13**

Sample ID: **12071208-01AMSD**

Units: **µg/L**

Run ID: **MSD_15_120716A**

Prep Date: **07/16/2012 17:13**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	43.2	2.5	50	0	86	21	138	46.8	7.9(33)	
Chloromethane	50.9	10	50	0	102	23	144	52.09	2.4(27)	
Vinyl chloride	50.7	2.5	50	0	101	49	136	56.15	10.1(21)	
Chloroethane	55.9	2.5	50	0	112	21	159	61.44	9.4(40)	
Bromomethane	37.4	10	50	0	75	10	174	32.95	12.7(40)	
Trichlorofluoromethane	55.9	2.5	50	0	112	32	154	61.87	10.2(37)	
Acetone	940	50	1000	0	94	10	171	1019	8.0(23)	
1,1-Dichloroethene	52.8	2.5	50	0	106	64	130	52.38	0.7(21)	
Tertiary Butyl Alcohol (TBA)	452	25	500	0	90	41	157	457.3	1.1(30)	
Dichloromethane	47.4	10	50	0	95	69	130	48.64	2.5(20)	
Freon-113	54.6	2.5	50	0	109	55	141	56.33	3.2(40)	
trans-1,2-Dichloroethene	52	2.5	50	0	104	63	130	53.21	2.3(20)	
Methyl tert-butyl ether (MTBE)	48	1.3	50	0	96	47	150	48.27	0.7(40)	
1,1-Dichloroethane	55.4	2.5	50	0	111	66	130	56.28	1.6(20)	
2-Butanone (MEK)	1140	50	1000	0	114	23	182	1153	1.4(22)	
Di-isopropyl Ether (DIPE)	56.4	2.5	50	0	113	59	139	57.25	1.6(20)	
cis-1,2-Dichloroethene	53.2	2.5	50	0	106	70	130	54.31	2.1(20)	
Bromochloromethane	47.4	2.5	50	0	95	70	132	47.77	0.7(20)	
Chloroform	52.1	2.5	50	0	104	70	130	53.26	2.3(20)	
Ethyl Tertiary Butyl Ether (ETBE)	52.9	2.5	50	0	106	59	182	53.18	0.6(40)	
2,2-Dichloropropane	55.2	2.5	50	0	110	38	154	55.94	1.3(22)	
1,2-Dichloroethane	53.9	2.5	50	0	108	65	134	53.9	0.0(20)	
1,1,1-Trichloroethane	53.6	2.5	50	0	107	65	136	55.61	3.7(20)	
1,1-Dichloropropene	58.1	2.5	50	0	116	68	132	59.92	3.1(20)	
Carbon tetrachloride	48.2	2.5	50	0	96	58	148	49.34	2.4(20)	
Benzene	52.8	1.3	50	0	106	59	138	53.87	2.1(21)	
Tertiary Amyl Methyl Ether (TAME)	55.2	2.5	50	0	110	63	135	56.28	2.0(40)	
Dibromomethane	50.6	2.5	50	0	101	70	130	52.58	3.9(20)	
1,2-Dichloropropane	51.8	2.5	50	0	104	70	131	54.83	5.6(20)	
Trichloroethene	48.6	2.5	50	0	97	65	144	50.98	4.7(20)	
Bromodichloromethane	49.9	2.5	50	0	99.7	50	157	51.67	3.6(20)	
4-Methyl-2-pentanone (MIBK)	138	13	125	0	110	20	182	141.9	3.1(20)	
cis-1,3-Dichloropropene	48.8	2.5	50	0	98	63	131	50.28	3.0(20)	
trans-1,3-Dichloropropene	49.2	2.5	50	0	98	65	136	50.8	3.3(20)	
1,1,2-Trichloroethane	52.2	2.5	50	0	104	70	131	54.29	3.9(20)	
Toluene	47.5	1.3	50	0	95	68	130	49.2	3.5(20)	
1,3-Dichloropropane	50	2.5	50	0	100	70	130	50.71	1.3(20)	
2-Hexanone	429	25	500	0	86	20	182	428.1	0.3(20)	
Dibromochloromethane	46	2.5	50	0	92	42	155	46.62	1.3(20)	
1,2-Dibromoethane (EDB)	96.3	5	100	0	96	70	130	97.49	1.2(20)	
Tetrachloroethene	43.2	2.5	50	0	86	65	130	45.18	4.5(20)	
1,1,1,2-Tetrachloroethane	45.9	2.5	50	0	92	70	130	46.33	1.0(20)	
Chlorobenzene	49.9	2.5	50	0	99.9	70	130	51.12	2.3(20)	
Ethylbenzene	49.4	1.3	50	0	99	68	130	50.97	3.2(20)	
m,p-Xylene	47.1	1.3	50	0	94	68	131	48.91	3.9(20)	
Bromoform	46.1	2.5	50	0	92	65	143	45.8	0.6(20)	
Styrene	47.7	2.5	50	0	95	59	153	48.28	1.3(37)	
o-Xylene	48.1	1.3	50	0	96	70	130	49.44	2.8(20)	
1,1,2,2-Tetrachloroethane	51.4	2.5	50	0	103	67	130	51.15	0.5(20)	
1,2,3-Trichloropropane	102	10	100	0	102	70	130	101.1	0.4(20)	
Isopropylbenzene	55.1	2.5	50	0	110	55	138	57.19	3.8(20)	
Bromobenzene	51.2	2.5	50	0	102	70	130	52.63	2.8(20)	
n-Propylbenzene	54.2	2.5	50	0	108	67	133	56.54	4.2(30)	
4-Chlorotoluene	52.5	2.5	50	0	105	70	130	54.82	4.3(20)	
2-Chlorotoluene	52.5	2.5	50	0	105	70	130	54.63	4.0(20)	
1,3,5-Trimethylbenzene	57	2.5	50	0	114	67	134	59.11	3.7(21)	
tert-Butylbenzene	53.8	2.5	50	0	108	55	147	55.5	3.1(20)	
1,2,4-Trimethylbenzene	56.1	2.5	50	0	112	65	135	59.29	5.6(25)	
sec-Butylbenzene	51.7	2.5	50	0	103	68	135	53.39	3.1(20)	
1,3-Dichlorobenzene	52.2	2.5	50	0	104	70	130	53.82	3.1(20)	
1,4-Dichlorobenzene	50.3	2.5	50	0	101	70	130	52.21	3.8(20)	
4-Isopropyltoluene	54.5	2.5	50	0	109	68	132	56.57	3.7(20)	
1,2-Dichlorobenzene	50.3	2.5	50	0	101	70	130	51.47	2.4(20)	
n-Butylbenzene	52.7	2.5	50	0	105	62	134	54.85	3.9(21)	
1,2-Dibromo-3-chloropropane (DBCP)	267	15	250	0	107	64	130	270.5	1.3(20)	



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1,2,4-Trichlorobenzene	50	10	50	0	100	62	133	51.53	3.0(29)
Naphthalene	48	10	50	0	96	32	166	49.8	3.8(40)
1,2,3-Trichlorobenzene	50.6	10	50	0	101	55	138	51.37	1.5(36)
Xylenes, Total	95.2	1.3	100	0	95	70	130	98.35	3.3(20)
Surr: 1,2-Dichloroethane-d4	52		50		104	70	130		
Surr: Toluene-d8	47.4		50		95	70	130		
Surr: 4-Bromofluorobenzene	51.7		50		103	70	130		

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

L51 = Analyte recovery was above acceptance limits for the LCS, but was acceptable in the MS/MSD.

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

CA

WorkOrder : CHHL12071202
Report Due By : 5:00 PM On : 23-Jul-12

Client:
 CH2M Hill
 1000 Wilshire Boulevard
 21st Floor
 Los Angeles, CA 90017

Report Attention	Phone Number	E-Mail Address
Daniel Jablonski	(213) 228-8271 x	daniel.jablonski@ch2m.com
Matthew Mayry	(213) 228-8271 x	matthew.mayry@ch2m.com

EDD Required : Yes

Sampled by : D. Reynal/ E. Vail

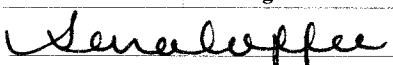
PO :
 Client's COC # : none Job : KMEP DFSP Norwalk

Cooler Temp	Samples Received	Date Printed
5 °C	12-Jul-12	12-Jul-12

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	Collection Date	No. of Bottles			Requested Tests						Sample Remarks		
				Alpha	Sub	TAT	TPHE_W	TPHP_W	VOC_W						
CHH12071202-01A	TB-1	AQ	07/09/12 12:30	2	0	7			TPHE(0.05) +Vinyl acetate						Reno Trip Blanks 7/9/12
CHH12071202-02A	EXP-5	AQ	07/09/12 13:47	6	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12071202-03A	EB-1	AQ	07/09/12 13:57	6	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12071202-04A	WCW-13	AQ	07/09/12 14:42	6	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12071202-05A	WCW-3	AQ	07/09/12 15:23	6	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12071202-06A	EXP-1	AQ	07/09/12 08:09	6	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12071202-07A	EXP-2	AQ	07/09/12 08:47	6	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12071202-08A	EXP-3	AQ	07/09/12 09:22	6	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						

Comments: Security seals intact. Frozen Ice. 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: 	Sara Coffee	Alpha Analytical, Inc.	7/12/12 11:01

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.
 The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.
 Matrix Type: AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) 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

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 (20709-DX)

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 #
			AG= Water	#	Preservation	Type												
TB-1	7/9/12	1230	AG	2	ITCL	Vials (4mm)		X										CHH120712020A
EXP-5		1347		6	ITCL		X	X										-02A
EB-1		1357		6	ITCL		X	X										-03A
WCW-13		1442		6	ITCL		X	X										-04A
WCW-3		1523		6	ITCL		X	X										-05A
EXP-1		0809		6	ITCL		X	X										-06A
EXP-2		0847		6	ITCL		X	X										-07A
EXP-3	✓	0922	✓	6	ITCL	✓	X	X										-08A

SAMPLING COMPLETED 7/9/12 1600 SAMPLING PERFORMED BY D. Reynal / E. Vail RESULTS NEEDED NO LATER THAN Standard

RELEASED BY [Signature] TIME 1620 RECEIVED BY Nicole (SC) DATE 7/9/12 TIME 1600

RELEASED BY Nicole (SC) TIME 1730 RECEIVED BY [Signature] DATE 7/11/12 TIME 1730

RELEASED BY [Signature] TIME 1730 RECEIVED BY Charaloffee DATE 7/12/12 TIME 9:33

SHIPPED VIA _____ TIME SENT _____ COOLER # _____



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135
Date Received : 07/12/12

Job: KMEP DFSP Norwalk

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B

Client ID	Lab ID	Date Sampled	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
GMW-O-15	CHH12071201-02A	07/11/12 08:30	TPH-E (DRO)	13	0.050 mg/L	07/12/12	07/13/12
			Surr: Nonane	139	(49-145) %REC	07/12/12	07/13/12
			TPH-P (GRO)	17	10 mg/L	07/16/12	07/16/12
			Surr: 1,2-Dichloroethane-d4	103	(70-130) %REC	07/16/12	07/16/12
			Surr: Toluene-d8	95	(70-130) %REC	07/16/12	07/16/12
			Surr: 4-Bromofluorobenzene	103	(70-130) %REC	07/16/12	07/16/12
EB-3	CHH12071201-03A	07/11/12 08:42	TPH-E (DRO)	ND	0.050 mg/L	07/12/12	07/13/12
			Surr: Nonane	117	(49-145) %REC	07/12/12	07/13/12
			TPH-P (GRO)	ND	0.050 mg/L	07/16/12	07/16/12
			Surr: 1,2-Dichloroethane-d4	97	(70-130) %REC	07/16/12	07/16/12
			Surr: Toluene-d8	97	(70-130) %REC	07/16/12	07/16/12
			Surr: 4-Bromofluorobenzene	107	(70-130) %REC	07/16/12	07/16/12
GMW-O-18	CHH12071201-04A	07/11/12 09:14	TPH-E (DRO)	ND	0.050 mg/L	07/12/12	07/13/12
			Surr: Nonane	116	(49-145) %REC	07/12/12	07/13/12
			TPH-P (GRO)	0.18	0.050 mg/L	07/16/12	07/16/12
			Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC	07/16/12	07/16/12
			Surr: Toluene-d8	97	(70-130) %REC	07/16/12	07/16/12
			Surr: 4-Bromofluorobenzene	104	(70-130) %REC	07/16/12	07/16/12
GMW-36	CHH12071201-05A	07/11/12 09:56	TPH-E (DRO)	12	0.050 mg/L	07/12/12	07/13/12
			Surr: Nonane	118	(49-145) %REC	07/12/12	07/13/12
			TPH-P (GRO)	5.1	0.50 mg/L	07/16/12	07/16/12
			Surr: 1,2-Dichloroethane-d4	104	(70-130) %REC	07/16/12	07/16/12
			Surr: Toluene-d8	93	(70-130) %REC	07/16/12	07/16/12
			Surr: 4-Bromofluorobenzene	101	(70-130) %REC	07/16/12	07/16/12

Diesel Range Organics (DRO) C13-C22

Gasoline Range Organics (GRO) C4-C13

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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RS

7/20/12

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12071201-01A
Client I.D. Number: TB-3

Sampled: 07/11/12 07:00
Received: 07/12/12
Extracted: 07/16/12
Analyzed: 07/16/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	5.0 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	87	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	103	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	109	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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PS

7/20/12

Report Date

Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12071201-02A
Client I.D. Number: GMW-O-15

Sampled: 07/11/12 08:30
Received: 07/12/12
Extracted: 07/16/12
Analyzed: 07/16/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	100 µg/L	45 Chlorobenzene	ND	100 µg/L
2 Chloromethane	ND	400 µg/L	46 Ethylbenzene	120	50 µg/L
3 Vinyl chloride	ND	100 µg/L	47 m,p-Xylene	270	50 µg/L
4 Chloroethane	ND	100 µg/L	48 Bromoform	ND	100 µg/L
5 Bromomethane	ND	400 µg/L	49 Xylenes, Total	270	50 µg/L
6 Trichlorofluoromethane	ND	100 µg/L	50 Styrene	ND	100 µg/L
7 Acetone	ND	2,000 µg/L	51 o-Xylene	ND	50 µg/L
8 1,1-Dichloroethene	ND	100 µg/L	52 1,1,2,2-Tetrachloroethane	ND	100 µg/L
9 Tertiary Butyl Alcohol (TBA)	1,600	1,000 µg/L	53 1,2,3-Trichloropropane	ND	400 µg/L
10 Dichloromethane	ND	400 µg/L	54 Isopropylbenzene	ND	100 µg/L
11 Freon-113	ND	100 µg/L	55 Bromobenzene	ND	100 µg/L
12 Carbon disulfide	ND	500 µg/L	56 n-Propylbenzene	ND	100 µg/L
13 trans-1,2-Dichloroethene	ND	100 µg/L	57 4-Chlorotoluene	ND	100 µg/L
14 Methyl tert-butyl ether (MTBE)	1,500	50 µg/L	58 2-Chlorotoluene	ND	100 µg/L
15 1,1-Dichloroethane	ND	100 µg/L	59 1,3,5-Trimethylbenzene	ND	100 µg/L
16 Vinyl acetate	ND	10,000 µg/L	60 tert-Butylbenzene	ND	100 µg/L
17 2-Butanone (MEK)	ND	2,000 µg/L	61 1,2,4-Trimethylbenzene	170	100 µg/L
18 Di-isopropyl Ether (DIPE)	ND	100 µg/L	62 sec-Butylbenzene	ND	100 µg/L
19 cis-1,2-Dichloroethene	ND	100 µg/L	63 1,3-Dichlorobenzene	ND	100 µg/L
20 Bromochloromethane	ND	100 µg/L	64 1,4-Dichlorobenzene	ND	100 µg/L
21 Chloroform	ND	100 µg/L	65 4-Isopropyltoluene	ND	100 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	100 µg/L	66 1,2-Dichlorobenzene	ND	100 µg/L
23 2,2-Dichloropropane	ND	100 µg/L	67 n-Butylbenzene	ND	100 µg/L
24 1,2-Dichloroethane	ND	100 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	600 µg/L
25 1,1,1-Trichloroethane	ND	100 µg/L	69 1,2,4-Trichlorobenzene	ND	400 µg/L
26 1,1-Dichloropropene	ND	100 µg/L	70 Naphthalene	ND	400 µg/L
27 Carbon tetrachloride	ND	100 µg/L	71 1,2,3-Trichlorobenzene	ND	400 µg/L
28 Benzene	6,700	50 µg/L	72 Surr: 1,2-Dichloroethane-d4	103	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	100 µg/L	73 Surr: Toluene-d8	95	(70-130) %REC
30 Dibromomethane	ND	100 µg/L	74 Surr: 4-Bromofluorobenzene	103	(70-130) %REC
31 1,2-Dichloropropane	ND	100 µg/L			
32 Trichloroethene	ND	100 µg/L			
33 Bromodichloromethane	ND	100 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	500 µg/L			
35 cis-1,3-Dichloropropene	ND	100 µg/L			
36 trans-1,3-Dichloropropene	ND	100 µg/L			
37 1,1,2-Trichloroethane	ND	100 µg/L			
38 Toluene	63	50 µg/L			
39 1,3-Dichloropropane	ND	100 µg/L			
40 2-Hexanone	ND	1,000 µg/L			
41 Dibromochloromethane	ND	100 µg/L			
42 1,2-Dibromoethane (EDB)	ND	200 µg/L			
43 Tetrachloroethene	ND	100 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	100 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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[Signature]

7/20/12

Report Date

Page 1 of 1



Alpha Analytical, Inc.

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ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12071201-03A
Client I.D. Number: EB-3

Sampled: 07/11/12 08:42
Received: 07/12/12
Extracted: 07/16/12
Analyzed: 07/16/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	97	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	97	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	107	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered in any way.

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[Signature]

7/20/12

Report Date

Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12071201-04A
Client I.D. Number: GMW-O-18

Sampled: 07/11/12 09:14
Received: 07/12/12
Extracted: 07/16/12
Analyzed: 07/16/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	14,000	300 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	97	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	104	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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JAS

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12071201-05A
Client I.D. Number: GMW-36

Sampled: 07/11/12 09:56
Received: 07/12/12
Extracted: 07/16/12
Analyzed: 07/16/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	5.0 µg/L	45 Chlorobenzene	ND	5.0 µg/L
2 Chloromethane	ND	20 µg/L	46 Ethylbenzene	39	2.5 µg/L
3 Vinyl chloride	ND	5.0 µg/L	47 m,p-Xylene	260	2.5 µg/L
4 Chloroethane	ND	5.0 µg/L	48 Bromoform	ND	5.0 µg/L
5 Bromomethane	ND	20 µg/L	49 Xylenes, Total	300	2.5 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	5.0 µg/L
7 Acetone	ND	100 µg/L	51 o-Xylene	36	2.5 µg/L
8 1,1-Dichloroethene	ND	5.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	5.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	140	50 µg/L	53 1,2,3-Trichloropropane	ND	20 µg/L
10 Dichloromethane	ND	20 µg/L	54 Isopropylbenzene	ND	5.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	5.0 µg/L
12 Carbon disulfide	ND	25 µg/L	56 n-Propylbenzene	14	5.0 µg/L
13 trans-1,2-Dichloroethene	ND	5.0 µg/L	57 4-Chlorotoluene	ND	5.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	2.5 µg/L	58 2-Chlorotoluene	ND	5.0 µg/L
15 1,1-Dichloroethane	ND	5.0 µg/L	59 1,3,5-Trimethylbenzene	160	5.0 µg/L
16 Vinyl acetate	ND	500 µg/L	60 tert-Butylbenzene	ND	5.0 µg/L
17 2-Butanone (MEK)	ND	100 µg/L	61 1,2,4-Trimethylbenzene	300	5.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	5.0 µg/L	62 sec-Butylbenzene	ND	5.0 µg/L
19 cis-1,2-Dichloroethene	ND	5.0 µg/L	63 1,3-Dichlorobenzene	ND	5.0 µg/L
20 Bromochloromethane	ND	5.0 µg/L	64 1,4-Dichlorobenzene	ND	5.0 µg/L
21 Chloroform	ND	5.0 µg/L	65 4-Isopropyltoluene	ND	5.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	5.0 µg/L	66 1,2-Dichlorobenzene	ND	5.0 µg/L
23 2,2-Dichloropropane	ND	5.0 µg/L	67 n-Butylbenzene	6.0	5.0 µg/L
24 1,2-Dichloroethane	ND	5.0 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	30 µg/L
25 1,1,1-Trichloroethane	ND	5.0 µg/L	69 1,2,4-Trichlorobenzene	ND	20 µg/L
26 1,1-Dichloropropene	ND	5.0 µg/L	70 Naphthalene	86	20 µg/L
27 Carbon tetrachloride	ND	5.0 µg/L	71 1,2,3-Trichlorobenzene	ND	20 µg/L
28 Benzene	ND	2.5 µg/L	72 Surr: 1,2-Dichloroethane-d4	104	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	5.0 µg/L	73 Surr: Toluene-d8	93	(70-130) %REC
30 Dibromomethane	ND	5.0 µg/L	74 Surr: 4-Bromofluorobenzene	101	(70-130) %REC
31 1,2-Dichloropropane	ND	5.0 µg/L			
32 Trichloroethene	ND	5.0 µg/L			
33 Bromodichloromethane	ND	5.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	25 µg/L			
35 cis-1,3-Dichloropropene	ND	5.0 µg/L			
36 trans-1,3-Dichloropropene	ND	5.0 µg/L			
37 1,1,2-Trichloroethane	ND	5.0 µg/L			
38 Toluene	6.8	2.5 µg/L			
39 1,3-Dichloropropane	ND	5.0 µg/L			
40 2-Hexanone	ND	50 µg/L			
41 Dibromochloromethane	ND	5.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	10 µg/L			
43 Tetrachloroethene	ND	5.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	5.0 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

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PS
7/20/12

Report Date

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

VOC Sample Preservation Report

Work Order: CHH12071201

Job: KMEP DFSP Norwalk

Alpha's Sample ID	Client's Sample ID	Matrix	pH
12071201-01A	TB-3	Aqueous	2
12071201-02A	GMW-O-15	Aqueous	5
12071201-03A	EB-3	Aqueous	2
12071201-04A	GMW-O-18	Aqueous	2
12071201-05A	GMW-36	Aqueous	2

7/20/12

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
17-Jul-12

QC Summary Report

Work Order:
12071201

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8015B/C Ext**

File ID: **2A07121236.D**

Batch ID: **29061**

Analysis Date: **07/13/2012 12:59**

Sample ID: **MBLK-29061**

Units : **mg/L**

Run ID: **FID_2_120712B**

Prep Date: **07/12/2012 12:47**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	ND	0.05								
Surr: Nonane	0.166		0.15		111	49	145			

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8015B/C Ext**

File ID: **2A07121237.D**

Batch ID: **29061**

Analysis Date: **07/13/2012 13:25**

Sample ID: **LCS-29061**

Units : **mg/L**

Run ID: **FID_2_120712B**

Prep Date: **07/12/2012 12:47**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	1.93	0.05	2.5		77	70	130			
Surr: Nonane	0.158		0.15		105	49	145			

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8015B/C Ext**

File ID: **2A07121252.D**

Batch ID: **29061**

Analysis Date: **07/13/2012 19:47**

Sample ID: **12071242-04AMS**

Units : **mg/L**

Run ID: **FID_2_120712B**

Prep Date: **07/12/2012 12:47**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.25	0.05	2.5	0	90	53	150			
Surr: Nonane	0.19		0.15		127	49	145			

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8015B/C Ext**

File ID: **2A07121253.D**

Batch ID: **29061**

Analysis Date: **07/13/2012 20:12**

Sample ID: **12071242-04AMSD**

Units : **mg/L**

Run ID: **FID_2_120712B**

Prep Date: **07/12/2012 12:47**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.39	0.05	2.5	0	95	53	150	2.251	5.8(47)	
Surr: Nonane	0.146		0.15		97	49	145			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
20-Jul-12

QC Summary Report

Work Order:
12071201

Method Blank

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	0.05								
Surr: 1,2-Dichloroethane-d4	0.00973		0.01		97	70	130			
Surr: Toluene-d8	0.00984		0.01		98	70	130			
Surr: 4-Bromofluorobenzene	0.0105		0.01		105	70	130			

Laboratory Control Spike

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.44	0.05	0.4		110	70	130			
Surr: 1,2-Dichloroethane-d4	0.00954		0.01		95	70	130			
Surr: Toluene-d8	0.00972		0.01		97	70	130			
Surr: 4-Bromofluorobenzene	0.0102		0.01		102	70	130			

Sample Matrix Spike

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.14	0.25	2	0	107	51	144			
Surr: 1,2-Dichloroethane-d4	0.0505		0.05		101	70	130			
Surr: Toluene-d8	0.0481		0.05		96	70	130			
Surr: 4-Bromofluorobenzene	0.0507		0.05		101	70	130			

Sample Matrix Spike Duplicate

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.53	0.25	2	0	126	51	144	2.139	16.7(29)	
Surr: 1,2-Dichloroethane-d4	0.0502		0.05		100	70	130			
Surr: Toluene-d8	0.048		0.05		96	70	130			
Surr: 4-Bromofluorobenzene	0.0497		0.05		99	70	130			

Comments:

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Date:
20-Jul-12

QC Summary Report

Work Order:
12071201

n-Butylbenzene	ND	1				
1,2-Dibromo-3-chloropropane (DBCP)	ND	5				
1,2,4-Trichlorobenzene	ND	2				
Naphthalene	ND	10				
1,2,3-Trichlorobenzene	ND	2				
Xylenes, Total	ND	0.5				
Surr: 1,2-Dichloroethane-d4	9.73		10	97	70	130
Surr: Toluene-d8	9.84		10	98	70	130
Surr: 4-Bromofluorobenzene	10.5		10	105	70	130



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Date:
20-Jul-12

QC Summary Report

Work Order:
12071201

Laboratory Control Spike

Type LCS Test Code: EPA Method SW8260B

File ID: 12071602.D

Batch ID: MS15W0716A

Analysis Date: 07/16/2012 10:22

Sample ID: LCS MS15W0716A

Units : µg/L

Run ID: MSD_15_120716A

Prep Date: 07/16/2012 10:22

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	8.53	1	10		85	37	137			
Chloromethane	14.4	2	10		144	43	140			L51
Vinyl chloride	10.7	1	10		107	80	120			
Chloroethane	10.5	1	10		105	43	141			
Bromomethane	10.1	2	10		101	11	160			
Trichlorofluoromethane	10.9	1	10		109	40	148			
Acetone	169	10	200		84	36	171			
1,1-Dichloroethene	9.59	1	10		96	80	120			
Tertiary Butyl Alcohol (TBA)	66.1	10	100		66	44	156			
Dichloromethane	8.71	2	10		87	69	130			
Freon-113	10.8	1	10		108	70	137			
trans-1,2-Dichloroethene	9.86	1	10		99	70	130			
Methyl tert-butyl ether (MTBE)	7.85	0.5	10		79	65	140			
1,1-Dichloroethane	10.3	1	10		103	70	130			
2-Butanone (MEK)	187	10	200		93	23	182			
Di-isopropyl Ether (DIPE)	9.85	1	10		99	70	130			
cis-1,2-Dichloroethene	9.93	1	10		99	70	130			
Bromochloromethane	8.81	1	10		88	70	132			
Chloroform	9.66	1	10		97	80	120			
Ethyl Tertiary Butyl Ether (ETBE)	8.98	1	10		90	65	139			
2,2-Dichloropropane	10.8	1	10		108	68	154			
1,2-Dichloroethane	9.24	1	10		92	70	132			
1,1,1-Trichloroethane	10.1	1	10		101	70	135			
1,1-Dichloropropene	11.1	1	10		111	70	130			
Carbon tetrachloride	9.28	1	10		93	61	148			
Benzene	9.86	0.5	10		99	70	130			
Tertiary Amyl Methyl Ether (TAME)	9.52	1	10		95	68	134			
Dibromomethane	8.98	1	10		90	70	130			
1,2-Dichloropropane	9.71	1	10		97	80	120			
Trichloroethene	9.6	1	10		96	65	144			
Bromodichloromethane	9.31	1	10		93	50	157			
4-Methyl-2-pentanone (MIBK)	21.3	2.5	25		85	20	182			
cis-1,3-Dichloropropene	9.4	1	10		94	70	131			
trans-1,3-Dichloropropene	9.01	1	10		90	70	136			
1,1,2-Trichloroethane	9.1	1	10		91	70	130			
Toluene	9.41	0.5	10		94	80	120			
1,3-Dichloropropane	8.87	1	10		89	70	130			
2-Hexanone	91.3	5	100		91	20	182			
Dibromochloromethane	8.36	1	10		84	42	155			
1,2-Dibromoethane (EDB)	16.8	2	20		84	70	130			
Tetrachloroethene	9.03	1	10		90	70	130			
1,1,1,2-Tetrachloroethane	8.73	1	10		87	70	130			
Chlorobenzene	9.65	1	10		97	70	130			
Ethylbenzene	9.7	0.5	10		97	80	120			
m,p-Xylene	9.31	0.5	10		93	70	130			
Bromoform	7.95	1	10		80	68	143			
Styrene	8.98	1	10		90	64	153			
o-Xylene	9.33	0.5	10		93	70	130			
1,1,2,2-Tetrachloroethane	8.47	1	10		85	70	130			
1,2,3-Trichloropropane	17	2	20		85	70	130			
Isopropylbenzene	11.4	1	10		114	68	138			
Bromobenzene	9.98	1	10		99.8	70	130			
n-Propylbenzene	11.4	1	10		114	70	133			
4-Chlorotoluene	10.7	1	10		107	70	130			
2-Chlorotoluene	10.7	1	10		107	70	130			
1,3,5-Trimethylbenzene	11.8	1	10		118	70	134			
tert-Butylbenzene	11.2	1	10		112	55	147			
1,2,4-Trimethylbenzene	11.4	1	10		114	70	134			
sec-Butylbenzene	11.1	1	10		111	70	135			
1,3-Dichlorobenzene	10.4	1	10		104	70	130			
1,4-Dichlorobenzene	9.85	1	10		99	70	130			
4-Isopropyltoluene	11.6	1	10		116	70	132			
1,2-Dichlorobenzene	9.52	1	10		95	70	130			
n-Butylbenzene	11.2	1	10		112	70	134			
1,2-Dibromo-3-chloropropane (DBCP)	42.7	3	50		85	67	130			



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

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Date:
20-Jul-12

QC Summary Report

Work Order:
12071201

1,2,4-Trichlorobenzene	8.46	2	10	85	67	132
Naphthalene	6.34	2	10	63	38	154
1,2,3-Trichlorobenzene	7.61	2	10	76	56	137
Xylenes, Total	18.6	0.5	20	93	70	130
Surr: 1,2-Dichloroethane-d4	10.5		10	105	70	130
Surr: Toluene-d8	9.78		10	98	70	130
Surr: 4-Bromofluorobenzene	10.5		10	105	70	130



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Date:
20-Jul-12

QC Summary Report

Work Order:
12071201

Sample Matrix Spike

File ID: 12071619.D

Sample ID: 12071208-01AMS

Type MS

Test Code: EPA Method SW8260B

Batch ID: MS15W0716A

Analysis Date: 07/16/2012 16:51

Units : µg/L

Run ID: MSD_15_120716A

Prep Date: 07/16/2012 16:51

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	46.8	2.5	50	0	94	21	138			
Chloromethane	52.1	10	50	0	104	23	144			
Vinyl chloride	56.2	2.5	50	0	112	49	136			
Chloroethane	61.4	2.5	50	0	123	21	159			
Bromomethane	33	10	50	0	66	10	174			
Trichlorofluoromethane	61.9	2.5	50	0	124	32	154			
Acetone	1020	50	1000	0	102	10	171			
1,1-Dichloroethene	52.4	2.5	50	0	105	64	130			
Tertiary Butyl Alcohol (TBA)	457	25	500	0	91	41	157			
Dichloromethane	48.6	10	50	0	97	69	130			
Freon-113	56.3	2.5	50	0	113	55	141			
trans-1,2-Dichloroethene	53.2	2.5	50	0	106	63	130			
Methyl tert-butyl ether (MTBE)	48.3	1.3	50	0	97	47	150			
1,1-Dichloroethane	56.3	2.5	50	0	113	66	130			
2-Butanone (MEK)	1150	50	1000	0	115	23	182			
Di-isopropyl Ether (DIPE)	57.3	2.5	50	0	115	59	139			
cis-1,2-Dichloroethene	54.3	2.5	50	0	109	70	130			
Bromochloromethane	47.8	2.5	50	0	96	70	132			
Chloroform	53.3	2.5	50	0	107	70	130			
Ethyl Tertiary Butyl Ether (ETBE)	53.2	2.5	50	0	106	59	182			
2,2-Dichloropropane	55.9	2.5	50	0	112	38	154			
1,2-Dichloroethane	53.9	2.5	50	0	108	65	134			
1,1,1-Trichloroethane	55.6	2.5	50	0	111	65	136			
1,1-Dichloropropene	59.9	2.5	50	0	120	68	132			
Carbon tetrachloride	49.3	2.5	50	0	99	58	148			
Benzene	53.9	1.3	50	0	108	59	138			
Tertiary Amyl Methyl Ether (TAME)	56.3	2.5	50	0	113	63	135			
Dibromomethane	52.6	2.5	50	0	105	70	130			
1,2-Dichloropropane	54.8	2.5	50	0	110	70	131			
Trichloroethene	51	2.5	50	0	102	65	144			
Bromodichloromethane	51.7	2.5	50	0	103	50	157			
4-Methyl-2-pentanone (MIBK)	142	13	125	0	114	20	182			
cis-1,3-Dichloropropene	50.3	2.5	50	0	101	63	131			
trans-1,3-Dichloropropene	50.8	2.5	50	0	102	65	136			
1,1,2-Trichloroethane	54.3	2.5	50	0	109	70	131			
Toluene	49.2	1.3	50	0	98	68	130			
1,3-Dichloropropane	50.7	2.5	50	0	101	70	130			
2-Hexanone	428	25	500	0	86	20	182			
Dibromochloromethane	46.6	2.5	50	0	93	42	155			
1,2-Dibromoethane (EDB)	97.5	5	100	0	97	70	130			
Tetrachloroethene	45.2	2.5	50	0	90	65	130			
1,1,1,2-Tetrachloroethane	46.3	2.5	50	0	93	70	130			
Chlorobenzene	51.1	2.5	50	0	102	70	130			
Ethylbenzene	51	1.3	50	0	102	68	130			
m,p-Xylene	48.9	1.3	50	0	98	68	131			
Bromoform	45.8	2.5	50	0	92	65	143			
Styrene	48.3	2.5	50	0	97	59	153			
o-Xylene	49.4	1.3	50	0	99	70	130			
1,1,2,2-Tetrachloroethane	51.2	2.5	50	0	102	67	130			
1,2,3-Trichloropropane	101	10	100	0	101	70	130			
Isopropylbenzene	57.2	2.5	50	0	114	55	138			
Bromobenzene	52.6	2.5	50	0	105	70	130			
n-Propylbenzene	56.5	2.5	50	0	113	67	133			
4-Chlorotoluene	54.8	2.5	50	0	110	70	130			
2-Chlorotoluene	54.6	2.5	50	0	109	70	130			
1,3,5-Trimethylbenzene	59.1	2.5	50	0	118	67	134			
tert-Butylbenzene	55.5	2.5	50	0	111	55	147			
1,2,4-Trimethylbenzene	59.3	2.5	50	0	119	65	135			
sec-Butylbenzene	53.4	2.5	50	0	107	68	135			
1,3-Dichlorobenzene	53.8	2.5	50	0	108	70	130			
1,4-Dichlorobenzene	52.2	2.5	50	0	104	70	130			
4-Isopropyltoluene	56.6	2.5	50	0	113	68	132			
1,2-Dichlorobenzene	51.5	2.5	50	0	103	70	130			
n-Butylbenzene	54.9	2.5	50	0	110	62	134			
1,2-Dibromo-3-chloropropane (DBCP)	271	15	250	0	108	64	130			



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Date:
20-Jul-12

QC Summary Report

Work Order:
12071201

1,2,4-Trichlorobenzene	51.5	10	50	0	103	62	133
Naphthalene	49.8	10	50	0	99.6	32	166
1,2,3-Trichlorobenzene	51.4	10	50	0	103	55	138
Xylenes, Total	98.4	1.3	100	0	98	70	130
Surr: 1,2-Dichloroethane-d4	51.6		50		103	70	130
Surr: Toluene-d8	47.3		50		95	70	130
Surr: 4-Bromofluorobenzene	51.6		50		103	70	130



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Date:
20-Jul-12

QC Summary Report

Work Order:
12071201

Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method SW8260B

File ID: 12071620.D

Batch ID: MS15W0716A

Analysis Date: 07/16/2012 17:13

Sample ID: 12071208-01AMSD

Units: µg/L

Run ID: MSD_15_120716A

Prep Date: 07/16/2012 17:13

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	43.2	2.5	50	0	86	21	138	46.8	7.9(33)	
Chloromethane	50.9	10	50	0	102	23	144	52.09	2.4(27)	
Vinyl chloride	50.7	2.5	50	0	101	49	136	56.15	10.1(21)	
Chloroethane	55.9	2.5	50	0	112	21	159	61.44	9.4(40)	
Bromomethane	37.4	10	50	0	75	10	174	32.95	12.7(40)	
Trichlorofluoromethane	55.9	2.5	50	0	112	32	154	61.87	10.2(37)	
Acetone	940	50	1000	0	94	10	171	1019	8.0(23)	
1,1-Dichloroethene	52.8	2.5	50	0	106	64	130	52.38	0.7(21)	
Tertiary Butyl Alcohol (TBA)	452	25	500	0	90	41	157	457.3	1.1(30)	
Dichloromethane	47.4	10	50	0	95	69	130	48.64	2.5(20)	
Freon-113	54.6	2.5	50	0	109	55	141	56.33	3.2(40)	
trans-1,2-Dichloroethene	52	2.5	50	0	104	63	130	53.21	2.3(20)	
Methyl tert-butyl ether (MTBE)	48	1.3	50	0	96	47	150	48.27	0.7(40)	
1,1-Dichloroethane	55.4	2.5	50	0	111	66	130	56.28	1.6(20)	
2-Butanone (MEK)	1140	50	1000	0	114	23	182	1153	1.4(22)	
Di-isopropyl Ether (DIPE)	56.4	2.5	50	0	113	59	139	57.25	1.6(20)	
cis-1,2-Dichloroethene	53.2	2.5	50	0	106	70	130	54.31	2.1(20)	
Bromochloromethane	47.4	2.5	50	0	95	70	132	47.77	0.7(20)	
Chloroform	52.1	2.5	50	0	104	70	130	53.26	2.3(20)	
Ethyl Tertiary Butyl Ether (ETBE)	52.9	2.5	50	0	106	59	182	53.18	0.6(40)	
2,2-Dichloropropane	55.2	2.5	50	0	110	38	154	55.94	1.3(22)	
1,2-Dichloroethane	53.9	2.5	50	0	108	65	134	53.9	0.0(20)	
1,1,1-Trichloroethane	53.6	2.5	50	0	107	65	136	55.61	3.7(20)	
1,1-Dichloropropene	58.1	2.5	50	0	116	68	132	59.92	3.1(20)	
Carbon tetrachloride	48.2	2.5	50	0	96	58	148	49.34	2.4(20)	
Benzene	52.8	1.3	50	0	106	59	138	53.87	2.1(21)	
Tertiary Amyl Methyl Ether (TAME)	55.2	2.5	50	0	110	63	135	56.28	2.0(40)	
Dibromomethane	50.6	2.5	50	0	101	70	130	52.58	3.9(20)	
1,2-Dichloropropane	51.8	2.5	50	0	104	70	131	54.83	5.6(20)	
Trichloroethene	48.6	2.5	50	0	97	65	144	50.98	4.7(20)	
Bromodichloromethane	49.9	2.5	50	0	99.7	50	157	51.67	3.6(20)	
4-Methyl-2-pentanone (MIBK)	138	13	125	0	110	20	182	141.9	3.1(20)	
cis-1,3-Dichloropropene	48.8	2.5	50	0	98	63	131	50.28	3.0(20)	
trans-1,3-Dichloropropene	49.2	2.5	50	0	98	65	136	50.8	3.3(20)	
1,1,2-Trichloroethane	52.2	2.5	50	0	104	70	131	54.29	3.9(20)	
Toluene	47.5	1.3	50	0	95	68	130	49.2	3.5(20)	
1,3-Dichloropropane	50	2.5	50	0	100	70	130	50.71	1.3(20)	
2-Hexanone	429	25	500	0	86	20	182	428.1	0.3(20)	
Dibromochloromethane	46	2.5	50	0	92	42	155	46.62	1.3(20)	
1,2-Dibromoethane (EDB)	96.3	5	100	0	96	70	130	97.49	1.2(20)	
Tetrachloroethene	43.2	2.5	50	0	86	65	130	45.18	4.5(20)	
1,1,1,2-Tetrachloroethane	45.9	2.5	50	0	92	70	130	46.33	1.0(20)	
Chlorobenzene	49.9	2.5	50	0	99.9	70	130	51.12	2.3(20)	
Ethylbenzene	49.4	1.3	50	0	99	68	130	50.97	3.2(20)	
m,p-Xylene	47.1	1.3	50	0	94	68	131	48.91	3.9(20)	
Bromoform	46.1	2.5	50	0	92	65	143	45.8	0.6(20)	
Styrene	47.7	2.5	50	0	95	59	153	48.28	1.3(37)	
o-Xylene	48.1	1.3	50	0	96	70	130	49.44	2.8(20)	
1,1,2,2-Tetrachloroethane	51.4	2.5	50	0	103	67	130	51.15	0.5(20)	
1,2,3-Trichloropropane	102	10	100	0	102	70	130	101.1	0.4(20)	
Isopropylbenzene	55.1	2.5	50	0	110	55	138	57.19	3.8(20)	
Bromobenzene	51.2	2.5	50	0	102	70	130	52.63	2.8(20)	
n-Propylbenzene	54.2	2.5	50	0	108	67	133	56.54	4.2(30)	
4-Chlorotoluene	52.5	2.5	50	0	105	70	130	54.82	4.3(20)	
2-Chlorotoluene	52.5	2.5	50	0	105	70	130	54.63	4.0(20)	
1,3,5-Trimethylbenzene	57	2.5	50	0	114	67	134	59.11	3.7(21)	
tert-Butylbenzene	53.8	2.5	50	0	108	55	147	55.5	3.1(20)	
1,2,4-Trimethylbenzene	56.1	2.5	50	0	112	65	135	59.29	5.6(25)	
sec-Butylbenzene	51.7	2.5	50	0	103	68	135	53.39	3.1(20)	
1,3-Dichlorobenzene	52.2	2.5	50	0	104	70	130	53.82	3.1(20)	
1,4-Dichlorobenzene	50.3	2.5	50	0	101	70	130	52.21	3.8(20)	
4-Isopropyltoluene	54.5	2.5	50	0	109	68	132	56.57	3.7(20)	
1,2-Dichlorobenzene	50.3	2.5	50	0	101	70	130	51.47	2.4(20)	
n-Butylbenzene	52.7	2.5	50	0	105	62	134	54.85	3.9(21)	
1,2-Dibromo-3-chloropropane (DBCP)	267	15	250	0	107	64	130	270.5	1.3(20)	



Alpha Analytical, Inc.

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Date:
20-Jul-12

QC Summary Report

Work Order:
12071201

1,2,4-Trichlorobenzene	50	10	50	0	100	62	133	51.53	3.0(29)
Naphthalene	48	10	50	0	96	32	166	49.8	3.8(40)
1,2,3-Trichlorobenzene	50.6	10	50	0	101	55	138	51.37	1.5(36)
Xylenes, Total	95.2	1.3	100	0	95	70	130	98.35	3.3(20)
Surr: 1,2-Dichloroethane-d4	52		50		104	70	130		
Surr: Toluene-d8	47.4		50		95	70	130		
Surr: 4-Bromofluorobenzene	51.7		50		103	70	130		

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

L51 = Analyte recovery was above acceptance limits for the LCS, but was acceptable in the MS/MSD.

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778

TEL: (775) 355-1044 FAX: (775) 355-0406

CA

WorkOrder : CHHL12071201

Report Due By : 5:00 PM On : 23-Jul-12

Client:
 CH2M Hill
 1000 Wilshire Boulevard
 21st Floor
 Los Angeles, CA 90017

Report Attention	Phone Number	EEmail Address
Daniel Jablonski	(213) 228-8271 x	daniel.jablonski@ch2m.com
Matthew Mayry	(213) 228-8271 x	matthew.mayry@ch2m.com

EDD Required : Yes

Sampled by : D. Reynal


PO :
 Client's COC # : none Job : KMEP DFSP Norwalk

Cooler Temp	Samples Received	Date Printed
5 °C	12-Jul-12	12-Jul-12

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	Date	No. of Bottles			Requested Tests			Sample Remarks
				Alpha	Sub	TAT	TPHE_W	TPH/P_W	VOC_W	
CHH12071201-01A	TB-3	AQ	07/11/12 07:00	2	0	7			TPHE(0.05) +Vinyl acetate	Reno Trip Blanks 6/25/12, 7/1/12
CHH12071201-02A	GMW-O-15	AQ	07/11/12 08:30	6	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	
CHH12071201-03A	EB-3	AQ	07/11/12 08:42	6	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	
CHH12071201-04A	GMW-O-18	AQ	07/11/12 09:14	6	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	
CHH12071201-05A	GMW-36	AQ	07/11/12 09:56	6	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	

Comments: Security seals intact. Frozen Ice. 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: 	Sara Coffee	Alpha Analytical, Inc.	7/12/12 11:31

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) 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 1

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 120709-DK1

CLIENT Kinder Morgan

SITE DFSP Norwalk

15306 Norwalk Blvd, Norwalk

SAMPLE I.D.	DATE	TIME	MATRIX AG= Water	CONTAINERS			TPHg, TPHd (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)							ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
				#	Preservation	Type												
TB-3	7/11/12	0700	AG	2	HCL	40 ml VOCs		X										CHH12071201-01
GMW-C-15		0830	AG	6	HCL		X	X										- 02A
EB-3		0842	AG	6	HCL		X	X										- 03A
GMW-C-18		0914	AG	6	HCL		X	X										- 04A
GMW-36		0956	AG	6	HCL		X	X										- 05A

SAMPLING COMPLETED DATE 7/11/12 TIME 1600 SAMPLING PERFORMED BY D. Reynolds RESULTS NEEDED NO LATER THAN Standard

RELEASED BY [Signature] TIME 1605 RECEIVED BY Nicole (SC) DATE 7/11/12 TIME 1605

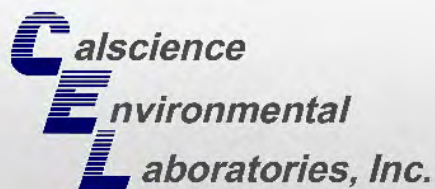
RELEASED BY Nicole (SC) TIME 1730 RECEIVED BY [Signature] DATE 7/11/12 TIME 1730

RELEASED BY [Signature] TIME 1730 RECEIVED BY Anna Coffee DATE 7/12/12 TIME 9:33

SHIPPED VIA _____ TIME SENT _____ COOLER # _____

APPENDIX D

**Laboratory Analytical Reports and Chain-of-Custody Documents
October 2012 Semiannual Event**



CALSCIENCE

WORK ORDER NUMBER: 12-10-1045

The difference is service



AIR · SOIL · WATER · MARINE CHEMISTRY

Analytical Report For

Client: Parsons Government Services, Inc.

Client Project Name: NORWALK GWM

Attention: Mary Lucas
100 West Walnut Street
Pasadena, CA 91124-0002

Approved for release on 10/23/2012 by:
Ranjit Clarke
Project Manager

ResultLink ▶

Email your PM ▶



Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any litigation which may arise.





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 Work Order Number: 12-10-1045

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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/15/12
Work Order No: 12-10-1045
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: NORWALK GWM

Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EXP-1	12-10-1045-1-G	10/15/12 08:55	Aqueous	GC 45	10/16/12	10/17/12 16:43	121016B15

Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	85	68-140			

EXP-2	12-10-1045-2-G	10/15/12 09:51	Aqueous	GC 45	10/16/12	10/17/12 16:58	121016B15
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	82	68-140			

EXP-3	12-10-1045-3-G	10/15/12 10:45	Aqueous	GC 45	10/16/12	10/17/12 17:12	121016B15
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	85	68-140			

GMW-6	12-10-1045-4-D	10/15/12 11:38	Aqueous	GC 45	10/16/12	10/17/12 17:27	121016B15
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	91	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/15/12
Work Order No: 12-10-1045
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: NORWALK GWM

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-12	12-10-1045-5-D	10/15/12 12:27	Aqueous	GC 45	10/16/12	10/17/12 17:42	121016B15

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	280	100	1	HD	ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	92	68-140			

GMW-15	12-10-1045-6-D	10/15/12 13:12	Aqueous	GC 45	10/16/12	10/17/12 17:57	121016B15
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	460	100	1	HD	ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	81	68-140			

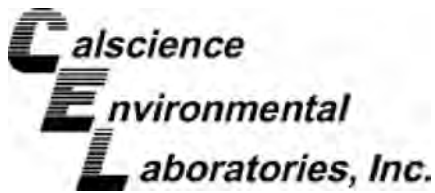
GMW-16	12-10-1045-7-D	10/15/12 13:53	Aqueous	GC 45	10/16/12	10/17/12 18:12	121016B15
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	91	68-140			

GMW-19	12-10-1045-8-D	10/15/12 14:51	Aqueous	GC 45	10/16/12	10/17/12 18:26	121016B15
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	87	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons Government Services, Inc.
 100 West Walnut Street
 Pasadena, CA 91124-0002

Date Received: 10/15/12
 Work Order No: 12-10-1045
 Preparation: EPA 3510C
 Method: EPA 8015B (M)

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-15-334-5	N/A	Aqueous	GC 45	10/16/12	10/17/12 15:59	121016B15

Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
n-Octacosane	88	68-140			

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/15/12
Work Order No: 12-10-1045
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project: NORWALK GWM

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EXP-1	12-10-1045-1-D	10/15/12 08:55	Aqueous	GC 4	10/16/12	10/17/12 13:54	121017B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	77	38-134			

EXP-2	12-10-1045-2-D	10/15/12 09:51	Aqueous	GC 4	10/16/12	10/17/12 15:26	121017B01
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Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	77	38-134			

EXP-3	12-10-1045-3-D	10/15/12 10:45	Aqueous	GC 4	10/16/12	10/17/12 15:57	121017B01
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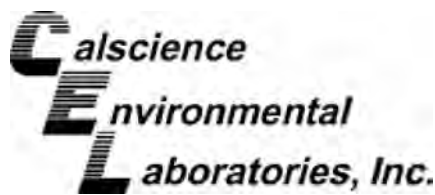
Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	77	38-134			

Method Blank	099-15-704-61	N/A	Aqueous	GC 4	10/16/12	10/17/12 12:21	121017B01
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Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	77	38-134			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/15/12
Work Order No: 12-10-1045
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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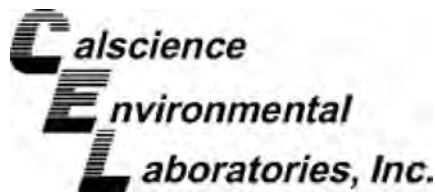
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EXP-1	12-10-1045-1-A	10/15/12 08:55	Aqueous	GC/MS Q	10/16/12	10/16/12 14:38	121016L01

Comment(s): -Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	99	80-120		Dibromofluoromethane	107	80-126	
1,2-Dichloroethane-d4	86	80-134		Toluene-d8	98	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/15/12
Work Order No: 12-10-1045
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EXP-2	12-10-1045-2-A	10/15/12 09:51	Aqueous	GC/MS Q	10/16/12	10/16/12 17:00	121016L01

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

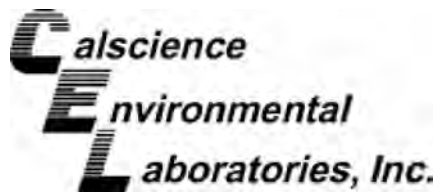
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	99	80-120		Dibromofluoromethane	105	80-126	
1,2-Dichloroethane-d4	93	80-134		Toluene-d8	98	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/15/12
Work Order No: 12-10-1045
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EXP-3	12-10-1045-3-A	10/15/12 10:45	Aqueous	GC/MS Q	10/16/12	10/16/12 17:29	121016L01

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

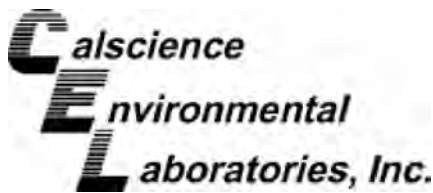
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	0.45	0.50	0.24	1	J	o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	80-120		Dibromofluoromethane	108	80-126	
1,2-Dichloroethane-d4	95	80-134		Toluene-d8	98	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/15/12
Work Order No: 12-10-1045
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-6	12-10-1045-4-A	10/15/12 11:38	Aqueous	GC/MS Q	10/16/12	10/16/12 17:58	121016L01

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

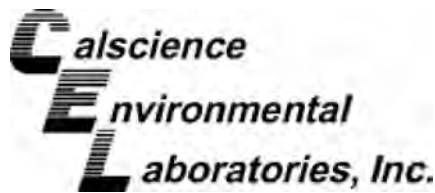
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	0.17	0.50	0.14	1	J
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	101	80-120		Dibromofluoromethane	110	80-126	
1,2-Dichloroethane-d4	102	80-134		Toluene-d8	99	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/15/12
Work Order No: 12-10-1045
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-12	12-10-1045-5-A	10/15/12 12:27	Aqueous	GC/MS Q	10/16/12	10/16/12 18:26	121016L01

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

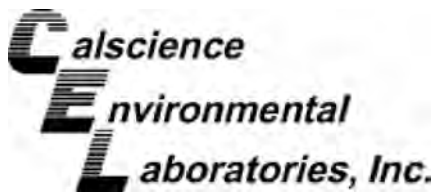
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	101	80-120		Dibromofluoromethane	109	80-126	
1,2-Dichloroethane-d4	101	80-134		Toluene-d8	98	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/15/12
Work Order No: 12-10-1045
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-15	12-10-1045-6-A	10/15/12 13:12	Aqueous	GC/MS Q	10/16/12	10/16/12 18:55	121016L01

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

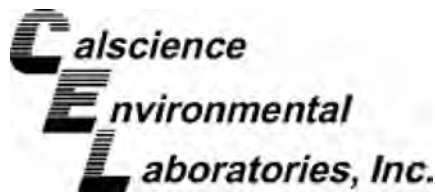
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	12	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	103	80-120		Dibromofluoromethane	110	80-126	
1,2-Dichloroethane-d4	102	80-134		Toluene-d8	98	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/15/12
Work Order No: 12-10-1045
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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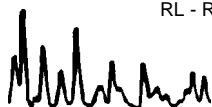
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-16	12-10-1045-7-A	10/15/12 13:53	Aqueous	GC/MS Q	10/16/12	10/16/12 19:23	121016L01

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

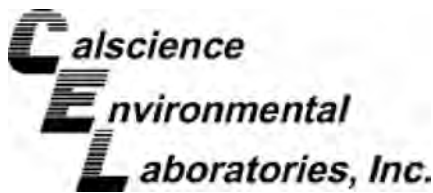
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	101	80-120		Dibromofluoromethane	106	80-126	
1,2-Dichloroethane-d4	98	80-134		Toluene-d8	99	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/15/12
Work Order No: 12-10-1045
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-19	12-10-1045-8-A	10/15/12 14:51	Aqueous	GC/MS Q	10/16/12	10/16/12 19:52	121016L01

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

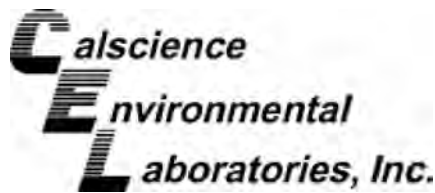
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	1.1	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	80-120		Dibromofluoromethane	109	80-126	
1,2-Dichloroethane-d4	96	80-134		Toluene-d8	99	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/15/12
Work Order No: 12-10-1045
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-01	12-10-1045-9-A	10/15/12 08:30	Aqueous	GC/MS Q	10/16/12	10/16/12 16:32	121016L01

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

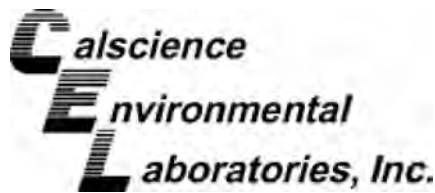
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	80-120		Dibromofluoromethane	107	80-126	
1,2-Dichloroethane-d4	89	80-134		Toluene-d8	99	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/15/12
Work Order No: 12-10-1045
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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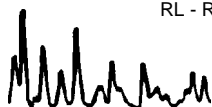
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-9,055	N/A	Aqueous	GC/MS Q	10/16/12	10/16/12 14:09	121016L01

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

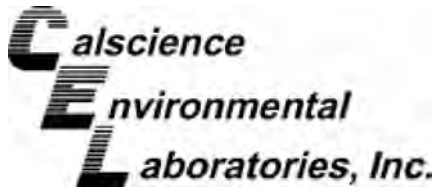
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	80-120		Dibromofluoromethane	106	80-126	
1,2-Dichloroethane-d4	85	80-134		Toluene-d8	99	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Quality Control - Spike/Spike Duplicate



Parsons Government Services, Inc.
 100 West Walnut Street
 Pasadena, CA 91124-0002

Date Received: 10/15/12
 Work Order No: 12-10-1045
 Preparation: EPA 5030C
 Method: EPA 8015B (M)

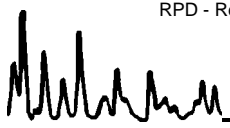
Project NORWALK GWM

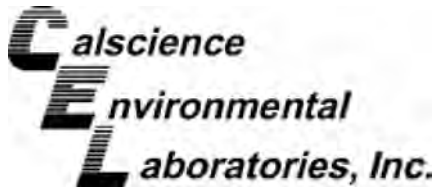
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
EXP-1	Aqueous	GC 4	10/16/12	10/17/12	121017S01

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	ND	2000	1881	94	1847	92	68-122	2	0-18	

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RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/15/12
Work Order No: 12-10-1045
Preparation: EPA 5030C
Method: EPA 8260B

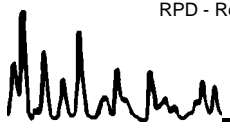
Project NORWALK GWM

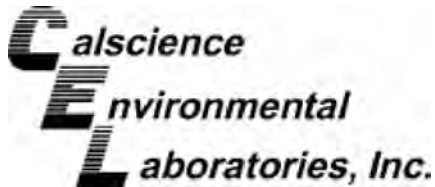
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
EXP-1	Aqueous	GC/MS Q	10/16/12	10/16/12	121016S01

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	50.27	101	51.07	102	78-120	2	0-20	
Carbon Tetrachloride	ND	50.00	45.98	92	46.87	94	67-139	2	0-20	
Chlorobenzene	ND	50.00	55.77	112	57.47	115	80-120	3	0-20	
1,2-Dibromoethane	ND	50.00	54.20	108	58.09	116	80-123	7	0-20	
1,2-Dichlorobenzene	ND	50.00	57.50	115	56.57	113	76-120	2	0-20	
1,2-Dichloroethane	ND	50.00	37.32	75	38.23	76	76-130	2	0-20	3
1,1-Dichloroethene	ND	50.00	46.43	93	46.37	93	70-130	0	0-27	
Ethylbenzene	ND	50.00	57.60	115	58.77	118	73-127	2	0-20	
Toluene	ND	50.00	53.27	107	54.66	109	72-126	3	0-20	
Trichloroethene	ND	50.00	50.91	102	51.95	104	74-122	2	0-20	
Vinyl Chloride	ND	50.00	43.72	87	42.80	86	65-131	2	0-24	
p/m-Xylene	ND	100.0	101.9	102	104.8	105	70-130	3	0-30	
o-Xylene	ND	50.00	52.23	104	52.45	105	70-130	0	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	52.96	106	54.48	109	69-123	3	0-20	
Tert-Butyl Alcohol (TBA)	ND	250.0	309.9	124	293.9	118	65-131	5	0-22	
Diisopropyl Ether (DIPE)	ND	50.00	47.20	94	45.75	92	68-128	3	0-22	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	52.45	105	51.70	103	69-123	1	0-21	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	49.63	99	51.85	104	70-124	4	0-20	
Ethanol	ND	500.0	478.8	96	443.1	89	41-155	8	0-35	

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RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons Government Services, Inc.
 100 West Walnut Street
 Pasadena, CA 91124-0002

Date Received: N/A
 Work Order No: 12-10-1045
 Preparation: EPA 3510C
 Method: EPA 8015B (M)

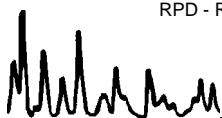
Project: NORWALK GWM

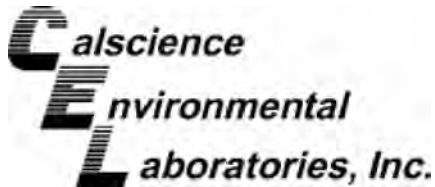
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-334-5	Aqueous	GC 45	10/16/12	10/17/12	121016B15

Parameter	<u>SPIKE ADDED</u>	<u>LCS CONC</u>	<u>LCS %REC</u>	<u>LCSD CONC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as JP5	4000	3153	79	3136	78	75-117	1	0-13	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons Government Services, Inc.
 100 West Walnut Street
 Pasadena, CA 91124-0002

Date Received: N/A
 Work Order No: 12-10-1045
 Preparation: EPA 5030C
 Method: EPA 8015B (M)

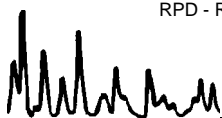
Project: NORWALK GWM

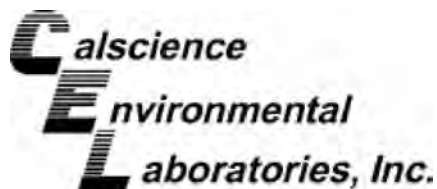
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-704-61	Aqueous	GC 4	10/16/12	10/17/12	121017B01

Parameter	<u>SPIKE ADDED</u>	<u>LCS CONC</u>	<u>LCS %REC</u>	<u>LCSD CONC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Gasoline	2000	2012	101	1958	98	78-120	3	0-10	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: N/A
Work Order No: 12-10-1045
Preparation: EPA 5030C
Method: EPA 8260B

Project: NORWALK GWM

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number					
099-14-001-9,055	Aqueous	GC/MS Q	10/16/12	10/16/12	121016L01					
Parameter	<u>SPIKE ADDED</u>	<u>LCS CONC</u>	<u>LCS %REC</u>	<u>LCSD CONC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>ME CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Benzene	50.00	52.66	105	52.82	106	80-120	73-127	0	0-20	
Carbon Tetrachloride	50.00	48.68	97	47.77	96	66-138	54-150	2	0-20	
Chlorobenzene	50.00	59.73	119	57.36	115	80-120	73-127	4	0-20	
1,2-Dibromoethane	50.00	57.83	116	56.14	112	80-120	73-127	3	0-20	
1,2-Dichlorobenzene	50.00	58.05	116	57.90	116	80-120	73-127	0	0-20	
1,2-Dichloroethane	50.00	36.88	74	36.43	73	80-129	72-137	1	0-20	ME
1,1-Dichloroethene	50.00	42.54	85	41.42	83	71-131	61-141	3	0-20	
Ethylbenzene	50.00	60.20	120	59.56	119	80-123	73-130	1	0-20	
Toluene	50.00	56.31	113	56.26	113	79-121	72-128	0	0-20	
Trichloroethene	50.00	52.34	105	52.01	104	80-120	73-127	1	0-20	
Vinyl Chloride	50.00	38.72	77	39.40	79	70-136	59-147	2	0-20	
p/m-Xylene	100.0	110.4	110	106.9	107	75-125	67-133	3	0-25	
o-Xylene	50.00	54.75	110	53.29	107	75-125	67-133	3	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	51.37	103	50.96	102	72-126	63-135	1	0-22	
Tert-Butyl Alcohol (TBA)	250.0	278.9	112	263.3	105	71-125	62-134	6	0-25	
Diisopropyl Ether (DIPE)	50.00	47.53	95	46.21	92	69-129	59-139	3	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	52.15	104	51.56	103	69-129	59-139	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	51.68	103	51.01	102	67-133	56-144	1	0-20	
Ethanol	500.0	470.6	94	426.4	85	47-155	29-173	10	0-36	

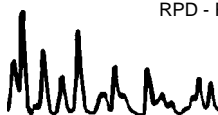
Total number of LCS compounds : 19

Total number of ME compounds : 1

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 12-10-1045

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

MPN - Most Probable Number



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: Calscience PM: Ranjit Clark

DHS #

MUST MEET SPECIFICATIONS

- EPA
- LIA
- OTHER

RWQCB REGION

12-10-1045

SPECIAL INSTRUCTIONS

Invoice and Report to:

Parsons - Mary Lucas (mary.lucas@parsons.com)

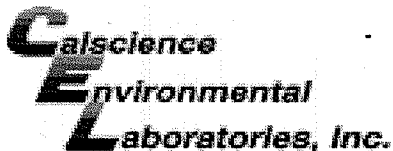
100 W Walnut St., Pasadena, CA 91124 (626) 440-6032

Project # 746442

CHAIN OF CUSTODY					
CLIENT Parsons					
SITE Norwalk GWM					
SAMPLE I.D.	DATE	TIME	MATRIX W = H2O	CONTAINERS TOTAL	
EXP-1	10/15/12	0855	W	7	VOA/AMBER
EXP-2	10/15/12	0951	W	7	VOA/AMBER
EXP-3	10/15/12	1045	W	7	VOA/AMBER
GMW-6	10/15/12	1138	W	4	VOA/AMBER
GMW-12	10/15/12	1227	W	4	VOA/AMBER
GMW-15	10/15/12	1312	W	4	VOA/AMBER
GMW-16	10/15/12	1353	W	4	VOA/AMBER
GMW-19	10/15/12	1451	W	4	VOA/AMBER
TB-01	10/15/12	0830	W	3	VOA

ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
			1
			2
			3
			4
			5
			6
			7
			8
			9

SAMPLING COMPLETED	DATE 10/15/12	TIME 1451	SAMPLING PERFORMED BY EDUARDO BUDANO	RESULTS NEEDED NO LATER THAN	Standard
RELEASED BY <i>[Signature]</i>	DATE 10/15/12	TIME 1605	RECEIVED BY NICOLE (SC)	DATE 10/15/12	TIME 1605
RELEASED BY NICOLE (SC)	DATE 10-15-12	TIME 17.18	RECEIVED BY <i>[Signature]</i> CEL	DATE 10/15/12	TIME 17.18
RELEASED BY <i>[Signature]</i>	DATE 10/15/12	TIME 18.00	RECEIVED BY DANNY GLE OR	DATE 10/15/12	TIME 18.00
SHIPPED VIA	DATE SENT	TIME SENT	COOLER #		



WORK ORDER #: 12-10-1045

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSONS

DATE: 10/15/12

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.8 °C - 0.3 °C (CF) = 2.5 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Initial: MEE

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: MEE

Sample _____ No (Not Intact) Not Present Initial: TS

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours...	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Water: VOA VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 1PBna 500PB

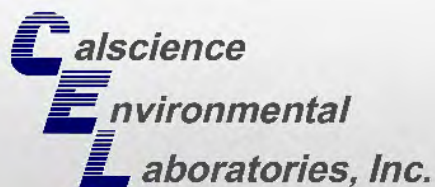
250PB 250PBn 125PB 125PBz_{na} 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Canister Other: _____ Trip Blank Lot#: 121011A Labeled/Checked by: TS

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: [Signature]

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z_{na}: ZnAc₂+NaOH f: Filtered Scanned by: [Signature]

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CALSCIENCE

WORK ORDER NUMBER: 12-10-1184

The difference is service



AIR · SOIL · WATER · MARINE CHEMISTRY

Analytical Report For

Client: Parsons Government Services, Inc.

Client Project Name: NORWALK GWM

Attention: Mary Lucas
100 West Walnut Street
Pasadena, CA 91124-0002

Ranjit K. F. Clarke

Approved for release on 10/24/2012 by:
Ranjit Clarke
Project Manager

ResultLink ▶

Email your PM ▶



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Work Order Number: 12-10-1184

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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/17/12
Work Order No: 12-10-1184
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: NORWALK GWM

Page 1 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-17	12-10-1184-1-D	10/16/12 07:56	Aqueous	GC 45	10/19/12	10/22/12 18:05	12101925A

Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	111	68-140			

MW-16	12-10-1184-2-D	10/16/12 08:34	Aqueous	GC 45	10/19/12	10/22/12 18:19	12101925A
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	107	68-140			

GMW-44	12-10-1184-3-D	10/16/12 09:02	Aqueous	GC 45	10/19/12	10/22/12 19:03	12101925A
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	120	68-140			

GMW-43	12-10-1184-4-D	10/16/12 09:29	Aqueous	GC 45	10/19/12	10/22/12 19:19	12101925A
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	108	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/17/12
Work Order No: 12-10-1184
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: NORWALK GWM

Page 2 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-31	12-10-1184-5-D	10/16/12 10:00	Aqueous	GC 45	10/19/12	10/22/12 19:33	12101925A

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	124	68-140			

GMW-41	12-10-1184-6-D	10/16/12 10:34	Aqueous	GC 45	10/19/12	10/22/12 19:48	12101925A
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	91	68-140			

MW-25	12-10-1184-7-D	10/16/12 11:05	Aqueous	GC 45	10/19/12	10/22/12 20:03	12101925A
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	107	68-140			

MW-26	12-10-1184-8-D	10/16/12 11:52	Aqueous	GC 45	10/19/12	10/22/12 20:17	12101925A
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	1400	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	121	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/17/12
Work Order No: 12-10-1184
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-27	12-10-1184-9-D	10/16/12 12:27	Aqueous	GC 45	10/19/12	10/22/12 20:32	12101925A

Parameter	Result	RL	DF	Qual	Units
TPH as JP5	170	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	117	68-140			

MW-24	12-10-1184-10-D	10/16/12 13:19	Aqueous	GC 45	10/19/12	10/22/12 20:47	12101925A
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	121	68-140			

MW-13	12-10-1184-11-D	10/16/12 13:50	Aqueous	GC 45	10/19/12	10/22/12 21:02	12101925A
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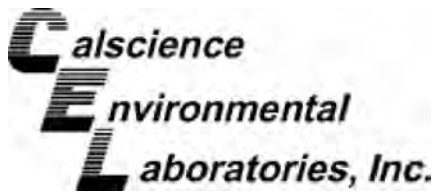
Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	99	68-140			

GMW-57	12-10-1184-12-D	10/16/12 14:28	Aqueous	GC 45	10/19/12	10/22/12 21:17	12101925A
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	110	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	100	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/17/12
Work Order No: 12-10-1184
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: NORWALK GWM

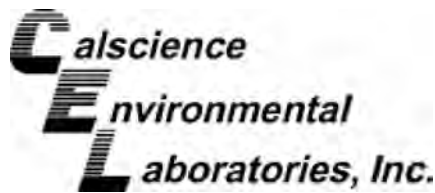
Page 4 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-15-334-7	N/A	Aqueous	GC 45	10/19/12	10/23/12 12:24	12101925A

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	92	68-140			

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/17/12
Work Order No: 12-10-1184
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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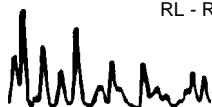
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-17	12-10-1184-1-A	10/16/12 07:56	Aqueous	GC/MS JJ	10/18/12	10/19/12 03:10	121018L02

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

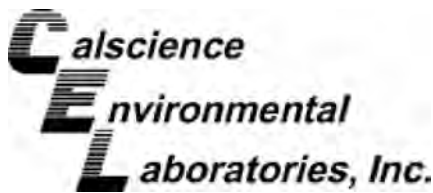
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	0.26	1.0	0.23	1	J	Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	80-120		Dibromofluoromethane	96	80-126	
1,2-Dichloroethane-d4	100	80-134		Toluene-d8	97	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/17/12
Work Order No: 12-10-1184
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-16	12-10-1184-2-A	10/16/12 08:34	Aqueous	GC/MS JJ	10/18/12	10/19/12 03:39	121018L02

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

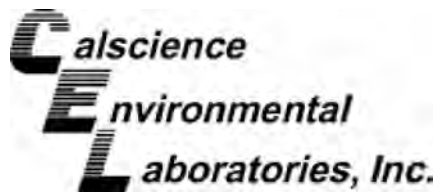
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	93	80-120		Dibromofluoromethane	93	80-126	
1,2-Dichloroethane-d4	101	80-134		Toluene-d8	99	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/17/12
Work Order No: 12-10-1184
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-44	12-10-1184-3-A	10/16/12 09:02	Aqueous	GC/MS JJ	10/18/12	10/19/12 04:09	121018L02

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

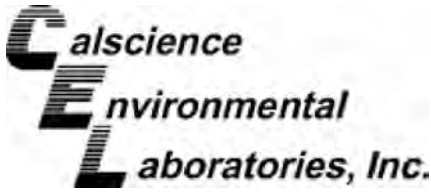
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	80-120		Dibromofluoromethane	97	80-126	
1,2-Dichloroethane-d4	105	80-134		Toluene-d8	99	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/17/12
Work Order No: 12-10-1184
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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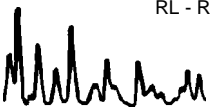
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-43	12-10-1184-4-A	10/16/12 09:29	Aqueous	GC/MS JJ	10/18/12	10/19/12 04:40	121018L02

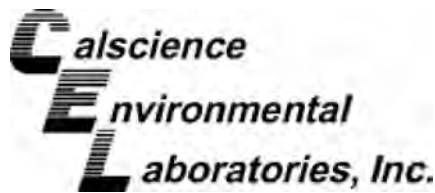
Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	94	80-120		Dibromofluoromethane	93	80-126	
1,2-Dichloroethane-d4	99	80-134		Toluene-d8	97	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/17/12
Work Order No: 12-10-1184
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-31	12-10-1184-5-A	10/16/12 10:00	Aqueous	GC/MS JJ	10/18/12	10/19/12 05:09	121018L02

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

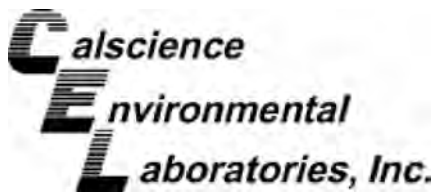
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	80-120		Dibromofluoromethane	96	80-126	
1,2-Dichloroethane-d4	104	80-134		Toluene-d8	96	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/17/12
Work Order No: 12-10-1184
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-41	12-10-1184-6-A	10/16/12 10:34	Aqueous	GC/MS JJ	10/18/12	10/19/12 05:40	121018L02

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

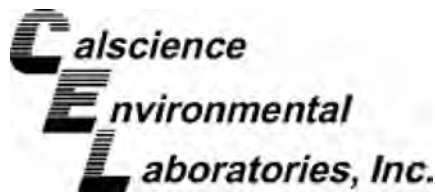
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	91	80-120		Dibromofluoromethane	98	80-126	
1,2-Dichloroethane-d4	106	80-134		Toluene-d8	100	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/17/12
Work Order No: 12-10-1184
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-25	12-10-1184-7-A	10/16/12 11:05	Aqueous	GC/MS JJ	10/18/12	10/19/12 06:10	121018L02

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

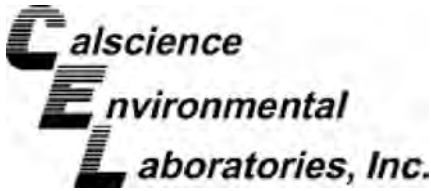
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	3.4	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	0.67	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	93	80-120		Dibromofluoromethane	98	80-126	
1,2-Dichloroethane-d4	107	80-134		Toluene-d8	100	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/17/12
Work Order No: 12-10-1184
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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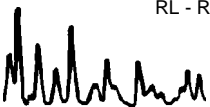
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-26	12-10-1184-8-A	10/16/12 11:52	Aqueous	GC/MS JJ	10/18/12	10/19/12 06:39	121018L02

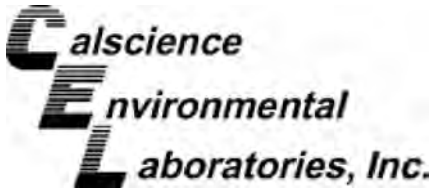
Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	3.9	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	2.2	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	67	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	3.1	1.0	0.23	1		Naphthalene	130	10	2.5	1	
sec-Butylbenzene	13	1.0	0.25	1		n-Propylbenzene	77	1.0	0.17	1	
tert-Butylbenzene	1.6	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	0.50	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	67	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	0.26	0.50	0.24	1	J
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	0.43	0.50	0.23	1	J
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	1.4	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	5.6	10	4.6	1	J
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	103	80-120		Dibromofluoromethane	98	80-126	
1,2-Dichloroethane-d4	99	80-134		Toluene-d8	102	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/17/12
Work Order No: 12-10-1184
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-27	12-10-1184-9-A	10/16/12 12:27	Aqueous	GC/MS JJ	10/18/12	10/19/12 07:08	121018L02

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

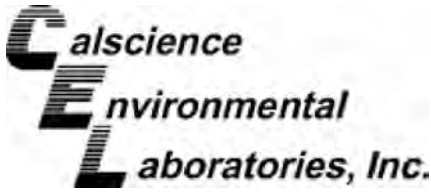
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	3.2	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	0.54	1.0	0.25	1	J	n-Propylbenzene	1.4	1.0	0.17	1	
tert-Butylbenzene	0.58	1.0	0.28	1	J	Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	3.3	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	5.0	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	12	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	98	80-120		Dibromofluoromethane	95	80-126	
1,2-Dichloroethane-d4	101	80-134		Toluene-d8	97	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/17/12
Work Order No: 12-10-1184
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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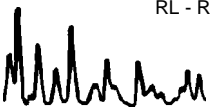
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-24	12-10-1184-10-A	10/16/12 13:19	Aqueous	GC/MS JJ	10/18/12	10/19/12 07:37	121018L02

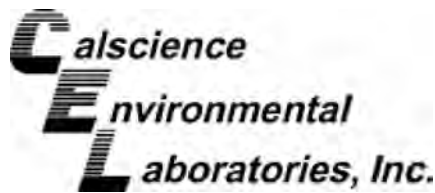
Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	1.7	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	80-120		Dibromofluoromethane	97	80-126	
1,2-Dichloroethane-d4	101	80-134		Toluene-d8	98	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/17/12
Work Order No: 12-10-1184
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-13	12-10-1184-11-A	10/16/12 13:50	Aqueous	GC/MS JJ	10/18/12	10/19/12 08:07	121018L02

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

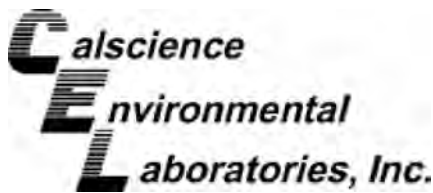
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	92	80-120		Dibromofluoromethane	98	80-126	
1,2-Dichloroethane-d4	105	80-134		Toluene-d8	97	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/17/12
Work Order No: 12-10-1184
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-57	12-10-1184-12-A	10/16/12 14:28	Aqueous	GC/MS JJ	10/18/12	10/19/12 01:12	121018L02

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

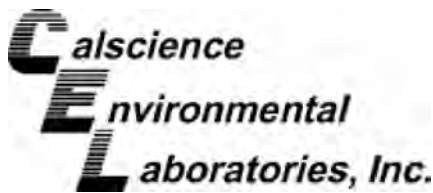
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	0.44	1.0	0.36	1	J
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	94	80-120		Dibromofluoromethane	97	80-126	
1,2-Dichloroethane-d4	99	80-134		Toluene-d8	97	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/17/12
Work Order No: 12-10-1184
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-02	12-10-1184-13-A	10/16/12 07:30	Aqueous	GC/MS JJ	10/18/12	10/19/12 00:42	121018L02

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

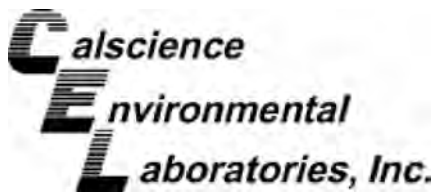
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	98	80-120		Dibromofluoromethane	95	80-126	
1,2-Dichloroethane-d4	96	80-134		Toluene-d8	95	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/17/12
Work Order No: 12-10-1184
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-9,086	N/A	Aqueous	GC/MS JJ	10/18/12	10/19/12 00:13	121018L02

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

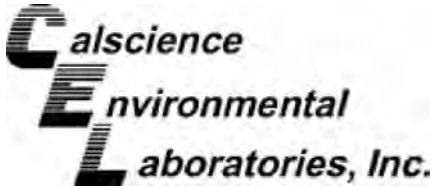
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	0.20	1.0	0.16	1	J
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	95	80-120		Dibromofluoromethane	95	80-126	
1,2-Dichloroethane-d4	94	80-134		Toluene-d8	98	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Quality Control - Spike/Spike Duplicate



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/17/12
Work Order No: 12-10-1184
Preparation: EPA 5030C
Method: EPA 8260B

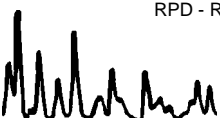
Project NORWALK GWM

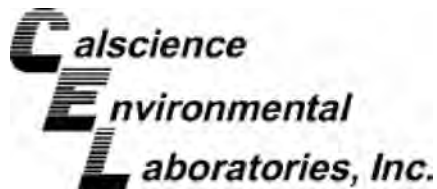
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GMW-57	Aqueous	GC/MS JJ	10/18/12	10/19/12	121018S02

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	46.14	92	49.87	100	78-120	8	0-20	
Carbon Tetrachloride	ND	50.00	43.12	86	46.68	93	67-139	8	0-20	
Chlorobenzene	ND	50.00	49.19	98	55.92	112	80-120	13	0-20	
1,2-Dibromoethane	ND	50.00	55.84	112	60.63	121	80-123	8	0-20	
1,2-Dichlorobenzene	ND	50.00	50.76	102	58.61	117	76-120	14	0-20	
1,2-Dichloroethane	ND	50.00	45.46	91	49.47	99	76-130	8	0-20	
1,1-Dichloroethene	ND	50.00	38.51	77	42.63	85	70-130	10	0-27	
Ethylbenzene	ND	50.00	50.81	102	56.29	113	73-127	10	0-20	
Toluene	ND	50.00	47.29	95	51.33	103	72-126	8	0-20	
Trichloroethene	ND	50.00	45.40	91	49.62	99	74-122	9	0-20	
Vinyl Chloride	ND	50.00	42.40	85	48.02	96	65-131	12	0-24	
p/m-Xylene	ND	100.0	97.76	98	107.7	108	70-130	10	0-30	
o-Xylene	ND	50.00	49.56	99	55.57	111	70-130	11	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	41.45	83	45.20	90	69-123	9	0-20	
Tert-Butyl Alcohol (TBA)	ND	250.0	216.2	86	243.6	97	65-131	12	0-22	
Diisopropyl Ether (DIPE)	ND	50.00	43.91	88	48.74	97	68-128	10	0-22	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	43.96	88	48.89	98	69-123	11	0-21	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	48.06	96	52.83	106	70-124	9	0-20	
Ethanol	ND	500.0	539.1	108	565.9	113	41-155	5	0-35	

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RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons Government Services, Inc.
 100 West Walnut Street
 Pasadena, CA 91124-0002

Date Received: N/A
 Work Order No: 12-10-1184
 Preparation: EPA 3510C
 Method: EPA 8015B (M)

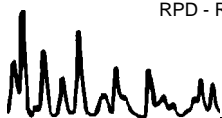
Project: NORWALK GWM

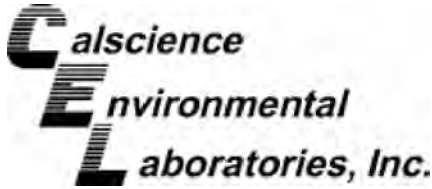
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-334-7	Aqueous	GC 45	10/19/12	10/22/12	12101925A

Parameter	<u>SPIKE ADDED</u>	<u>LCS CONC</u>	<u>LCS %REC</u>	<u>LCSD CONC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as JP5	4000	3025	76	3109	78	75-117	3	0-13	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: N/A
Work Order No: 12-10-1184
Preparation: EPA 5030C
Method: EPA 8260B

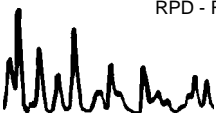
Project: NORWALK GWM

Quality Control Sample ID	Matrix	Instrument		Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-14-001-9,086	Aqueous	GC/MS JJ		10/18/12	10/18/12	121018L02				
Parameter	<u>SPIKE ADDED</u>	<u>LCS CONC</u>	<u>LCS %REC</u>	<u>LCSD CONC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>ME CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Benzene	50.00	48.89	98	49.97	100	80-120	73-127	2	0-20	
Carbon Tetrachloride	50.00	43.68	87	44.47	89	66-138	54-150	2	0-20	
Chlorobenzene	50.00	54.45	109	56.50	113	80-120	73-127	4	0-20	
1,2-Dibromoethane	50.00	58.52	117	59.95	120	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	50.00	56.43	113	58.01	116	80-120	73-127	3	0-20	
1,2-Dichloroethane	50.00	45.80	92	48.06	96	80-129	72-137	5	0-20	
1,1-Dichloroethene	50.00	40.82	82	41.48	83	71-131	61-141	2	0-20	
Ethylbenzene	50.00	54.56	109	56.48	113	80-123	73-130	3	0-20	
Toluene	50.00	49.76	100	51.41	103	79-121	72-128	3	0-20	
Trichloroethene	50.00	46.92	94	48.89	98	80-120	73-127	4	0-20	
Vinyl Chloride	50.00	45.48	91	45.03	90	70-136	59-147	1	0-20	
p/m-Xylene	100.0	103.0	103	108.4	108	75-125	67-133	5	0-25	
o-Xylene	50.00	53.25	107	55.79	112	75-125	67-133	5	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	44.14	88	44.88	90	72-126	63-135	2	0-22	
Tert-Butyl Alcohol (TBA)	250.0	270.2	108	261.3	105	71-125	62-134	3	0-25	
Diisopropyl Ether (DIPE)	50.00	48.28	97	49.67	99	69-129	59-139	3	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	48.20	96	49.52	99	69-129	59-139	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	51.67	103	52.98	106	67-133	56-144	3	0-20	
Ethanol	500.0	579.6	116	588.5	118	47-155	29-173	2	0-36	

Total number of LCS compounds : 19
 Total number of ME compounds : 0
 Total number of ME compounds allowed : 1
 LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 12-10-1184

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

MPN - Most Probable Number



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: Calscience PM: Ranjit Clark DHS #

CHAIN OF CUSTODY

CLIENT: **Parsons**

SITE: **Norwalk GWM**

MUST MEET SPECIFICATIONS

EPA RWQCB REGION

LIA

OTHER

12-10-1184

SPECIAL INSTRUCTIONS

Invoice and Report to:
 Parsons - Mary Lucas (mary.lucas@parsons.com)
 100 W Walnut St., Pasadena, CA 91124 (626) 440-6032
 Project # 746442

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS		VOC's (including BTEX, MTBE, TBA, EPA 8260)	TPH as JP5 (8015)	TPHg (8015)						ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
			W = H2O	TOTAL													
MW-17	10/16/12	0756	W	4	VOA/AMBER	X	X										1
MW-16	10/16/12	0834	W	4	VOA/AMBER	X	X										2
GMW-44	10/16/12	0902	W	4	VOA/AMBER	X	X										3
GMW-43	10/16/12	0929	W	4	VOA/AMBER	X	X										4
GMW-31	10/16/12	1000	W	4	VOA/AMBER	X	X										5
GMW-41	10/16/12	1034	W	4	VOA/AMBER	X	X										6
MW-25	10/16/12	1105	W	4	VOA/AMBER	X	X										7
MW-26	10/16/12	1152	W	4	VOA/AMBER	X	X										8
MW-27	10/16/12	1227	W	4	VOA/AMBER	X	X										9
MW-24	10/16/12	1319	W	4	VOA/AMBER	X	X										10

SAMPLING COMPLETED: DATE 10/16/12 TIME 1428
 SAMPLING PERFORMED BY: EDUARDO BUSTARDO
 RESULTS NEEDED NO LATER THAN: Standard

RELEASED BY: [Signature] DATE 10/16/12 TIME 1550 RECEIVED BY: Nicole (SC) DATE 10/16/12 TIME 1550

RELEASED BY: Nicole (SC) DATE 10/17/12 TIME 1030 RECEIVED BY: [Signature] DATE 10/17/12 TIME 1030

RELEASED BY: [Signature] DATE 10/17/12 TIME 1100 RECEIVED BY: [Signature] DATE 10/17/12 TIME 1100

SHIPPED VIA: DATE SENT: TIME SENT: COOLER #:

1784

20F2

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: Calscience PM: Ranjit Clark

DHS #

MUST MEET SPECIFICATIONS

- EPA
- LIA
- OTHER

RWQCB REGION

SPECIAL INSTRUCTIONS

Invoice and Report to:

Parsons - Mary Lucas (mary.lucas@parsons.com)

100 W Walnut St., Pasadena, CA 91124 (626) 440-6032
Project # 746442

CHAIN OF CUSTODY

CLIENT **Parsons**

SITE **Norwalk GWM**

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS	
			W = H2O	TOTAL	

MW-13	10/16/12	1350	W	4	VOA/AMBER
GMW-57	10/16/12	1428	W	4	VOA/AMBER
TB-02	10/16/12	0730	W	3	VOA

VOC's (including BTEX, MTBE, TBA, EPA 8260)	TPH as JP5 (8015)	TPHg (8015)							
X	X								
X	X								
X									

ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
			11
			12
			13

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY
	10/16/12	1428	EDUARDO BUDARO

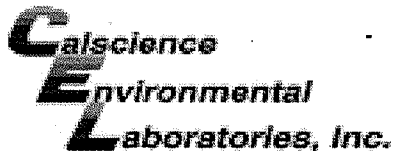
RESULTS NEEDED NO LATER THAN
Standard

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	10/16/12	1550	Nicole (sc)	10/16/12	1550

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	10/17/12	1030		10/17/12	1030

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	10/17/12	1100		10/17/12	1100

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #



WORK ORDER #: 12-10-1184

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSON

DATE: 10/17/12

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 1.8 °C - 0.3 °C (CF) = 1.5 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Initial: WD

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: WD

Sample _____ No (Not Intact) Not Present Initial: M

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours...	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Water: VOA VOA^h VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 1PBna 500PB

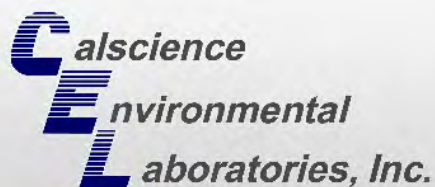
250PB 250PBn 125PB 125PBz_{na} 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Canister **Other:** _____ **Trip Blank Lot#:** 21011A **Labeled/Checked by:** MC

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** MC

Preservative: h: HCL n: HNO₃ na₂:Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z_{na}: ZnAc₂+NaOH f: Filtered **Scanned by:** MC

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CALSCIENCE

WORK ORDER NUMBER: 12-10-1241

The difference is service



AIR · SOIL · WATER · MARINE CHEMISTRY

Analytical Report For

Client: Parsons Government Services, Inc.

Client Project Name: NORWALK GWM

Attention: Mary Lucas
100 West Walnut Street
Pasadena, CA 91124-0002

Ranjit K. F. Clarke

Approved for release on 10/24/2012 by:
Ranjit Clarke
Project Manager

ResultLink ▶

Email your PM ▶



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Work Order Number: 12-10-1241

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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/17/12
Work Order No: 12-10-1241
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: NORWALK GWM

Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-65	12-10-1241-1-D	10/17/12 08:40	Aqueous	GC 45	10/19/12	10/22/12 22:31	121019B14

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	105	68-140			

GMW-64	12-10-1241-2-D	10/17/12 09:29	Aqueous	GC 45	10/19/12	10/22/12 22:46	121019B14
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	106	68-140			

GMW-63	12-10-1241-3-D	10/17/12 10:09	Aqueous	GC 45	10/19/12	10/22/12 23:00	121019B14
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	97	68-140			

GMW-66	12-10-1241-4-D	10/17/12 11:11	Aqueous	GC 45	10/19/12	10/22/12 23:15	121019B14
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	97	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/17/12
Work Order No: 12-10-1241
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-58	12-10-1241-5-D	10/17/12 12:01	Aqueous	GC 45	10/19/12	10/22/12 23:30	121019B14

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	790	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	118	68-140			

GMW-45	12-10-1241-6-D	10/17/12 12:59	Aqueous	GC 45	10/19/12	10/22/12 23:45	121019B14
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	1300	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	115	68-140			

GMW-47	12-10-1241-7-D	10/17/12 13:46	Aqueous	GC 45	10/19/12	10/23/12 00:00	121019B14
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	1400	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	107	68-140			

GMW-60	12-10-1241-8-D	10/17/12 14:26	Aqueous	GC 45	10/19/12	10/23/12 00:14	121019B14
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	1100	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	96	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/17/12
Work Order No: 12-10-1241
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-60 DUP	12-10-1241-10-D	10/17/12 00:00	Aqueous	GC 45	10/19/12	10/23/12 00:29	121019B14

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	1200	100	1		ug/L

<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>
n-Octacosane	101	68-140	

Method Blank	099-15-334-8	N/A	Aqueous	GC 45	10/19/12	10/22/12 21:46	121019B14
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L

<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>
n-Octacosane	105	68-140	

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/17/12
Work Order No: 12-10-1241
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-60	12-10-1241-8-E	10/17/12 14:26	Aqueous	GC 42	10/19/12	10/20/12 03:10	121019B01

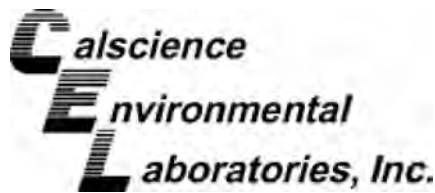
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as Gasoline	630	100	1	HD	ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	90	38-134			

Method Blank	099-15-704-69	N/A	Aqueous	GC 42	10/19/12	10/19/12 12:47	121019B01
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	70	38-134			

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/17/12
Work Order No: 12-10-1241
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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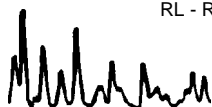
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-65	12-10-1241-1-A	10/17/12 08:40	Aqueous	GC/MS LL	10/18/12	10/18/12 18:43	121018L01

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

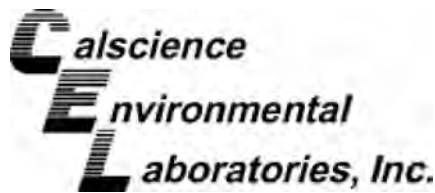
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	88	80-120		Dibromofluoromethane	100	80-126	
1,2-Dichloroethane-d4	101	80-134		Toluene-d8	100	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/17/12
Work Order No: 12-10-1241
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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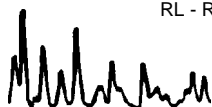
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-64	12-10-1241-2-A	10/17/12 09:29	Aqueous	GC/MS LL	10/18/12	10/18/12 22:02	121018L01

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

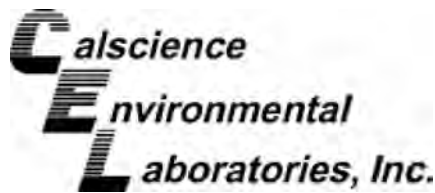
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	86	80-120		Dibromofluoromethane	101	80-126	
1,2-Dichloroethane-d4	89	80-134		Toluene-d8	96	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/17/12
Work Order No: 12-10-1241
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-63	12-10-1241-3-A	10/17/12 10:09	Aqueous	GC/MS LL	10/18/12	10/18/12 22:30	121018L01

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

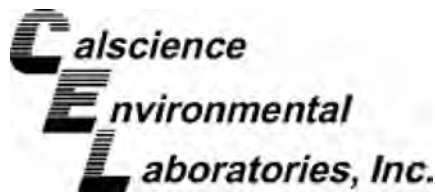
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	84	80-120		Dibromofluoromethane	100	80-126	
1,2-Dichloroethane-d4	88	80-134		Toluene-d8	93	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/17/12
Work Order No: 12-10-1241
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-66	12-10-1241-4-A	10/17/12 11:11	Aqueous	GC/MS LL	10/18/12	10/18/12 22:59	121018L01

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

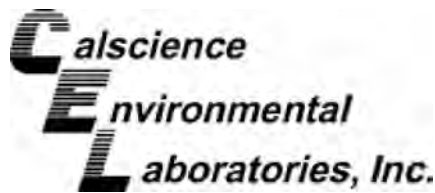
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	86	80-120		Dibromofluoromethane	100	80-126	
1,2-Dichloroethane-d4	88	80-134		Toluene-d8	97	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/17/12
Work Order No: 12-10-1241
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-58	12-10-1241-5-A	10/17/12 12:01	Aqueous	GC/MS Q	10/19/12	10/19/12 23:39	121019L01

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

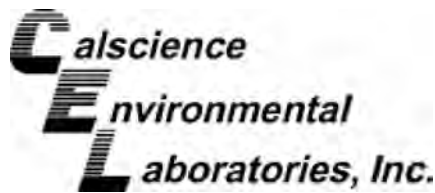
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	18	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	5.3	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	2.6	10	2.5	1	J
sec-Butylbenzene	0.61	1.0	0.25	1	J	n-Propylbenzene	2.0	1.0	0.17	1	
tert-Butylbenzene	0.48	1.0	0.28	1	J	Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	0.40	1.0	0.28	1	J	p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	105	80-120		Dibromofluoromethane	114	80-126	
1,2-Dichloroethane-d4	112	80-134		Toluene-d8	106	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/17/12
Work Order No: 12-10-1241
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-45	12-10-1241-6-A	10/17/12 12:59	Aqueous	GC/MS Q	10/19/12	10/20/12 00:07	121019L01

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

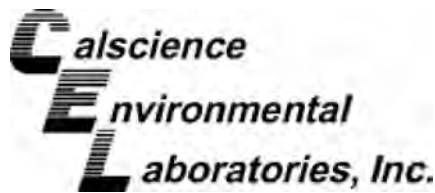
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	44	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	1.6	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	97	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	2.9	1.0	0.23	1		Naphthalene	170	10	2.5	1	
sec-Butylbenzene	12	1.0	0.25	1		n-Propylbenzene	97	1.0	0.17	1	
tert-Butylbenzene	1.6	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	0.43	1.0	0.28	1	J	p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	20	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	111	80-120		Dibromofluoromethane	121	80-126	
1,2-Dichloroethane-d4	110	80-134		Toluene-d8	103	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/17/12
Work Order No: 12-10-1241
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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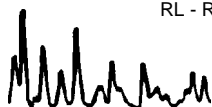
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-47	12-10-1241-7-A	10/17/12 13:46	Aqueous	GC/MS LL	10/18/12	10/19/12 03:14	121018L02

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

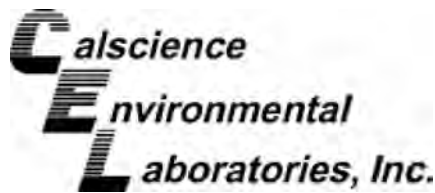
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	0.46	0.50	0.14	1	J	t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	0.17	0.50	0.14	1	J
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	2.1	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	0.36	1.0	0.25	1	J	n-Propylbenzene	0.33	1.0	0.17	1	J
tert-Butylbenzene	0.46	1.0	0.28	1	J	Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	0.55	1.0	0.28	1	J	p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	4.5	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	310	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	95	80-120		Dibromofluoromethane	95	80-126	
1,2-Dichloroethane-d4	83	80-134		Toluene-d8	97	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/17/12
Work Order No: 12-10-1241
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-60	12-10-1241-8-A	10/17/12 14:26	Aqueous	GC/MS Q	10/19/12	10/20/12 00:36	121019L01

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

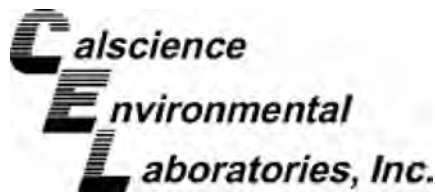
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	12	20	10	1	J	c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	1.5	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	0.40	0.50	0.14	1	J
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	16	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	1.2	1.0	0.23	1		Naphthalene	5.3	10	2.5	1	J
sec-Butylbenzene	4.6	1.0	0.25	1		n-Propylbenzene	6.3	1.0	0.17	1	
tert-Butylbenzene	1.2	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	280	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	108	80-120		Dibromofluoromethane	108	80-126	
1,2-Dichloroethane-d4	106	80-134		Toluene-d8	101	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/17/12
Work Order No: 12-10-1241
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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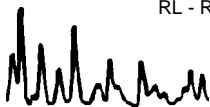
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-03	12-10-1241-9-A	10/17/12 08:15	Aqueous	GC/MS LL	10/18/12	10/19/12 02:46	121018L02

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

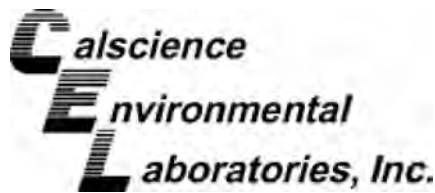
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	85	80-120		Dibromofluoromethane	98	80-126	
1,2-Dichloroethane-d4	90	80-134		Toluene-d8	93	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/17/12
Work Order No: 12-10-1241
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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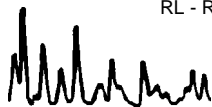
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-60 DUP	12-10-1241-10-A	10/17/12 00:00	Aqueous	GC/MS Q	10/19/12	10/20/12 01:04	121019L01

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

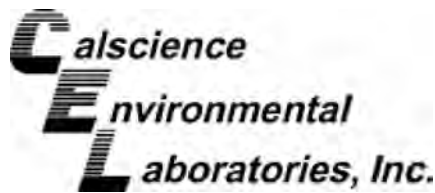
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	1.4	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	0.30	0.50	0.14	1	J
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	15	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	1.0	1.0	0.23	1		Naphthalene	3.3	10	2.5	1	J
sec-Butylbenzene	4.4	1.0	0.25	1		n-Propylbenzene	6.0	1.0	0.17	1	
tert-Butylbenzene	1.1	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	330	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	108	80-120		Dibromofluoromethane	114	80-126	
1,2-Dichloroethane-d4	105	80-134		Toluene-d8	101	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/17/12
Work Order No: 12-10-1241
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-9,084	N/A	Aqueous	GC/MS LL	10/18/12	10/18/12 18:15	121018L01

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

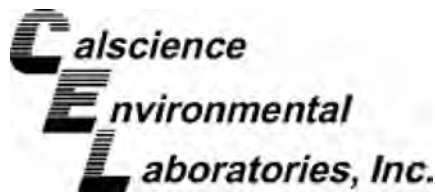
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	92	80-120		Dibromofluoromethane	106	80-126	
1,2-Dichloroethane-d4	99	80-134		Toluene-d8	99	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/17/12
Work Order No: 12-10-1241
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-9,099	N/A	Aqueous	GC/MS Q	10/19/12	10/19/12 15:37	121019L01

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

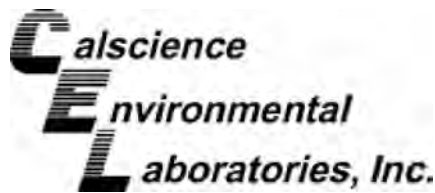
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	1.1	5.0	0.64	1	J
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	100	80-120		Dibromofluoromethane	115	80-126	
1,2-Dichloroethane-d4	110	80-134		Toluene-d8	100	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/17/12
Work Order No: 12-10-1241
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-9,100	N/A	Aqueous	GC/MS LL	10/18/12	10/19/12 02:17	121018L02

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

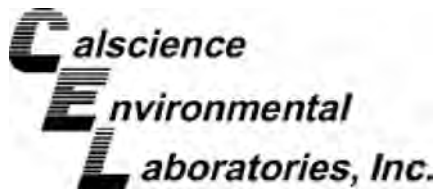
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	83	80-120		Dibromofluoromethane	97	80-126	
1,2-Dichloroethane-d4	87	80-134		Toluene-d8	95	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Quality Control - Spike/Spike Duplicate



Parsons Government Services, Inc.
 100 West Walnut Street
 Pasadena, CA 91124-0002

Date Received: 10/17/12
 Work Order No: 12-10-1241
 Preparation: EPA 5030C
 Method: EPA 8015B (M)

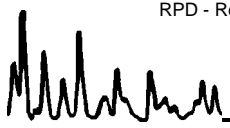
Project NORWALK GWM

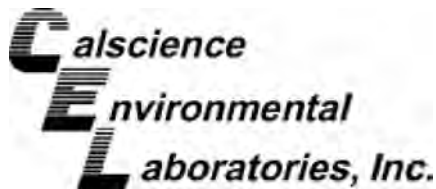
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-10-1237-2	Aqueous	GC 42	10/19/12	10/19/12	121019S01

Parameter	<u>SAMPLE CONC</u>	<u>SPIKE ADDED</u>	<u>MS CONC</u>	<u>MS %REC</u>	<u>MSD CONC</u>	<u>MSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Gasoline	146.8	2000	2041	95	1789	82	68-122	13	0-18	

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RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



Parsons Government Services, Inc.
 100 West Walnut Street
 Pasadena, CA 91124-0002

Date Received: 10/17/12
 Work Order No: 12-10-1241
 Preparation: EPA 5030C
 Method: EPA 8260B

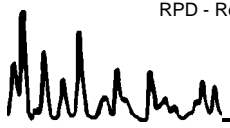
Project NORWALK GWM

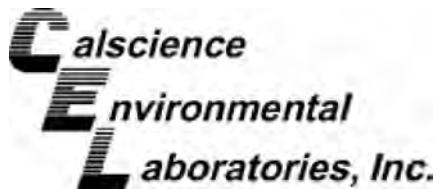
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GMW-65	Aqueous	GC/MS LL	10/18/12	10/18/12	121018S01

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	50.00	100	50.43	101	78-120	1	0-20	
Carbon Tetrachloride	ND	50.00	45.67	91	47.93	96	67-139	5	0-20	
Chlorobenzene	ND	50.00	54.05	108	52.85	106	80-120	2	0-20	
1,2-Dibromoethane	ND	50.00	53.61	107	53.69	107	80-123	0	0-20	
1,2-Dichlorobenzene	ND	50.00	52.01	104	54.68	109	76-120	5	0-20	
1,2-Dichloroethane	ND	50.00	48.64	97	49.91	100	76-130	3	0-20	
1,1-Dichloroethene	ND	50.00	39.07	78	42.87	86	70-130	9	0-27	
Ethylbenzene	ND	50.00	56.39	113	56.01	112	73-127	1	0-20	
Toluene	ND	50.00	50.67	101	51.01	102	72-126	1	0-20	
Trichloroethene	ND	50.00	49.91	100	52.97	106	74-122	6	0-20	
Vinyl Chloride	ND	50.00	47.91	96	48.35	97	65-131	1	0-24	
p/m-Xylene	ND	100.0	115.7	116	113.9	114	70-130	2	0-30	
o-Xylene	ND	50.00	59.01	118	59.05	118	70-130	0	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	40.85	82	46.09	92	69-123	12	0-20	
Tert-Butyl Alcohol (TBA)	ND	250.0	245.8	98	259.8	104	65-131	6	0-22	
Diisopropyl Ether (DIPE)	ND	50.00	50.07	100	50.00	100	68-128	0	0-22	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	50.38	101	53.70	107	69-123	6	0-21	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	50.59	101	52.62	105	70-124	4	0-20	
Ethanol	ND	500.0	410.3	82	461.8	92	41-155	12	0-35	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



Parsons Government Services, Inc.
 100 West Walnut Street
 Pasadena, CA 91124-0002

Date Received: 10/17/12
 Work Order No: 12-10-1241
 Preparation: EPA 5030C
 Method: EPA 8260B

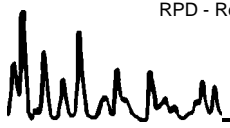
Project NORWALK GWM

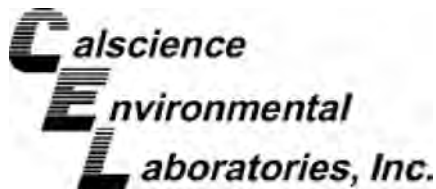
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GMW-47	Aqueous	GC/MS LL	10/18/12	10/19/12	121018S02

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	50.44	101	47.60	95	78-120	6	0-20	
Carbon Tetrachloride	ND	50.00	43.33	87	41.70	83	67-139	4	0-20	
Chlorobenzene	ND	50.00	52.83	106	49.91	100	80-120	6	0-20	
1,2-Dibromoethane	ND	50.00	53.47	107	50.03	100	80-123	7	0-20	
1,2-Dichlorobenzene	ND	50.00	51.77	104	50.68	101	76-120	2	0-20	
1,2-Dichloroethane	ND	50.00	44.96	90	42.89	86	76-130	5	0-20	
1,1-Dichloroethene	ND	50.00	35.98	72	33.56	67	70-130	7	0-27	3
Ethylbenzene	ND	50.00	52.93	106	51.65	103	73-127	2	0-20	
Toluene	ND	50.00	51.62	103	49.68	99	72-126	4	0-20	
Trichloroethene	ND	50.00	51.08	102	48.47	97	74-122	5	0-20	
Vinyl Chloride	ND	50.00	42.86	86	39.79	80	65-131	7	0-24	
p/m-Xylene	ND	100.0	109.2	109	105.2	105	70-130	4	0-30	
o-Xylene	ND	50.00	55.54	111	54.35	109	70-130	2	0-30	
Methyl-t-Butyl Ether (MTBE)	4.516	50.00	44.14	79	43.58	78	69-123	1	0-20	
Tert-Butyl Alcohol (TBA)	311.0	250.0	554.9	98	552.6	97	65-131	0	0-22	
Diisopropyl Ether (DIPE)	ND	50.00	43.74	87	41.08	82	68-128	6	0-22	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	47.02	94	45.45	91	69-123	3	0-21	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	51.51	103	49.91	100	70-124	3	0-20	
Ethanol	ND	500.0	448.2	90	431.4	86	41-155	4	0-35	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



Parsons Government Services, Inc.
 100 West Walnut Street
 Pasadena, CA 91124-0002

Date Received: 10/17/12
 Work Order No: 12-10-1241
 Preparation: EPA 5030C
 Method: EPA 8260B

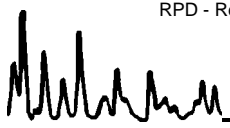
Project NORWALK GWM

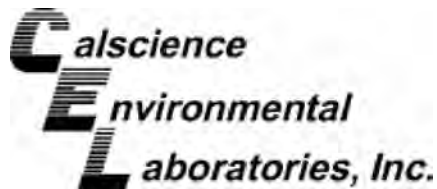
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-10-1354-1	Aqueous	GC/MS Q	10/19/12	10/19/12	121019S01

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	47.54	95	47.99	96	78-120	1	0-20	
Carbon Tetrachloride	ND	50.00	54.66	109	54.68	109	67-139	0	0-20	
Chlorobenzene	ND	50.00	54.62	109	56.10	112	80-120	3	0-20	
1,2-Dibromoethane	ND	50.00	56.25	113	54.79	110	80-123	3	0-20	
1,2-Dichlorobenzene	ND	50.00	52.14	104	54.22	108	76-120	4	0-20	
1,2-Dichloroethane	ND	50.00	47.88	96	47.53	95	76-130	1	0-20	
1,1-Dichloroethene	ND	50.00	47.15	94	49.45	99	70-130	5	0-27	
Ethylbenzene	ND	50.00	57.55	115	59.12	118	73-127	3	0-20	
Toluene	ND	50.00	51.32	103	49.68	99	72-126	3	0-20	
Trichloroethene	ND	50.00	51.54	103	50.93	102	74-122	1	0-20	
Vinyl Chloride	ND	50.00	37.50	75	42.09	84	65-131	12	0-24	
p/m-Xylene	ND	100.0	100.9	101	102.5	102	70-130	2	0-30	
o-Xylene	ND	50.00	51.67	103	52.32	105	70-130	1	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	54.86	110	55.61	111	69-123	1	0-20	
Tert-Butyl Alcohol (TBA)	ND	250.0	280.7	112	280.3	112	65-131	0	0-22	
Diisopropyl Ether (DIPE)	ND	50.00	45.22	90	44.47	89	68-128	2	0-22	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	50.97	102	51.23	102	69-123	1	0-21	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	51.78	104	50.96	102	70-124	2	0-20	
Ethanol	ND	500.0	349.8	70	382.3	76	41-155	9	0-35	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons Government Services, Inc.
 100 West Walnut Street
 Pasadena, CA 91124-0002

Date Received: N/A
 Work Order No: 12-10-1241
 Preparation: EPA 3510C
 Method: EPA 8015B (M)

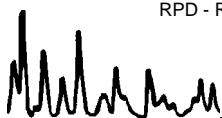
Project: NORWALK GWM

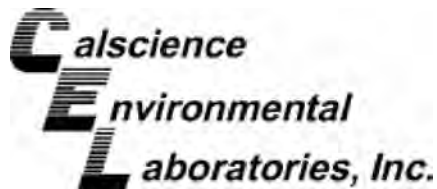
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-334-8	Aqueous	GC 45	10/19/12	10/22/12	121019B14

Parameter	<u>SPIKE ADDED</u>	<u>LCS CONC</u>	<u>LCS %REC</u>	<u>LCSD CONC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as JP5	4000	3005	75	3058	76	75-117	2	0-13	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons Government Services, Inc.
 100 West Walnut Street
 Pasadena, CA 91124-0002

Date Received: N/A
 Work Order No: 12-10-1241
 Preparation: EPA 5030C
 Method: EPA 8015B (M)

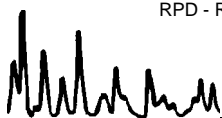
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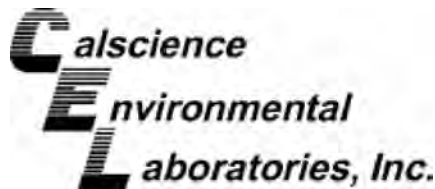
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-704-69	Aqueous	GC 42	10/19/12	10/19/12	121019B01

Parameter	<u>SPIKE ADDED</u>	<u>LCS CONC</u>	<u>LCS %REC</u>	<u>LCSD CONC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Gasoline	2000	2033	102	1957	98	78-120	4	0-10	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: N/A
Work Order No: 12-10-1241
Preparation: EPA 5030C
Method: EPA 8260B

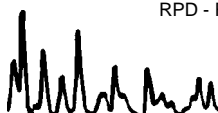
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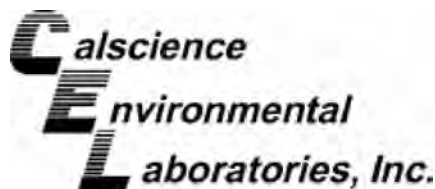
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number					
099-14-001-9,084	Aqueous	GC/MS LL	10/18/12	10/18/12	121018L01					
Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	50.28	101	50.78	102	80-120	73-127	1	0-20	
Carbon Tetrachloride	50.00	46.67	93	46.15	92	66-138	54-150	1	0-20	
Chlorobenzene	50.00	52.94	106	50.62	101	80-120	73-127	4	0-20	
1,2-Dibromoethane	50.00	52.09	104	53.01	106	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	50.00	54.83	110	54.05	108	80-120	73-127	1	0-20	
1,2-Dichloroethane	50.00	47.76	96	48.22	96	80-129	72-137	1	0-20	
1,1-Dichloroethene	50.00	40.21	80	39.16	78	71-131	61-141	3	0-20	
Ethylbenzene	50.00	54.29	109	54.07	108	80-123	73-130	0	0-20	
Toluene	50.00	50.65	101	51.03	102	79-121	72-128	1	0-20	
Trichloroethene	50.00	51.23	102	51.09	102	80-120	73-127	0	0-20	
Vinyl Chloride	50.00	50.16	100	47.52	95	70-136	59-147	5	0-20	
p/m-Xylene	100.0	113.4	113	110.8	111	75-125	67-133	2	0-25	
o-Xylene	50.00	58.10	116	56.84	114	75-125	67-133	2	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	40.33	81	42.82	86	72-126	63-135	6	0-22	
Tert-Butyl Alcohol (TBA)	250.0	234.4	94	243.5	97	71-125	62-134	4	0-25	
Diisopropyl Ether (DIPE)	50.00	49.32	99	47.99	96	69-129	59-139	3	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	52.68	105	51.13	102	69-129	59-139	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	52.10	104	52.26	105	67-133	56-144	0	0-20	
Ethanol	500.0	447.4	89	487.9	98	47-155	29-173	9	0-36	

Total number of LCS compounds : 19
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: N/A
Work Order No: 12-10-1241
Preparation: EPA 5030C
Method: EPA 8260B

Project: NORWALK GWM

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number					
099-14-001-9,100	Aqueous	GC/MS LL	10/18/12	10/19/12	121018L02					
Parameter	<u>SPIKE</u> <u>ADDED</u>	<u>LCS</u> <u>CONC</u>	<u>LCS</u> <u>%REC</u>	<u>LCSD</u> <u>CONC</u>	<u>LCSD</u> <u>%REC</u>	<u>%REC</u> <u>CL</u>	<u>ME</u> <u>CL</u>	<u>RPD</u>	<u>RPD</u> <u>CL</u>	<u>Qualifiers</u>
Benzene	50.00	47.73	95	48.58	97	80-120	73-127	2	0-20	
Carbon Tetrachloride	50.00	44.71	89	42.09	84	66-138	54-150	6	0-20	
Chlorobenzene	50.00	53.04	106	52.22	104	80-120	73-127	2	0-20	
1,2-Dibromoethane	50.00	54.30	109	51.48	103	80-120	73-127	5	0-20	
1,2-Dichlorobenzene	50.00	52.80	106	51.08	102	80-120	73-127	3	0-20	
1,2-Dichloroethane	50.00	43.55	87	44.19	88	80-129	72-137	1	0-20	
1,1-Dichloroethene	50.00	36.13	72	33.50	67	71-131	61-141	8	0-20	ME
Ethylbenzene	50.00	53.44	107	52.92	106	80-123	73-130	1	0-20	
Toluene	50.00	50.33	101	49.49	99	79-121	72-128	2	0-20	
Trichloroethene	50.00	51.33	103	49.20	98	80-120	73-127	4	0-20	
Vinyl Chloride	50.00	43.55	87	40.13	80	70-136	59-147	8	0-20	
p/m-Xylene	100.0	111.5	111	108.2	108	75-125	67-133	3	0-25	
o-Xylene	50.00	56.92	114	55.15	110	75-125	67-133	3	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	42.56	85	40.28	81	72-126	63-135	6	0-22	
Tert-Butyl Alcohol (TBA)	250.0	233.5	93	219.1	88	71-125	62-134	6	0-25	
Diisopropyl Ether (DIPE)	50.00	44.52	89	42.06	84	69-129	59-139	6	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	48.10	96	45.54	91	69-129	59-139	5	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	48.69	97	49.08	98	67-133	56-144	1	0-20	
Ethanol	500.0	410.7	82	409.2	82	47-155	29-173	0	0-36	

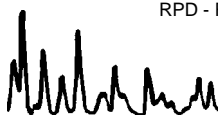
Total number of LCS compounds : 19

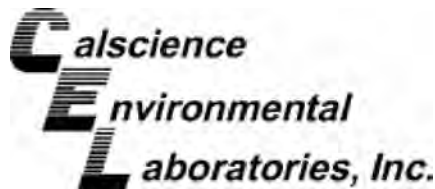
Total number of ME compounds : 1

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons Government Services, Inc.
 100 West Walnut Street
 Pasadena, CA 91124-0002

Date Received: N/A
 Work Order No: 12-10-1241
 Preparation: EPA 5030C
 Method: EPA 8260B

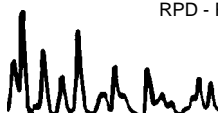
Project: NORWALK GWM

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number					
099-14-001-9,099	Aqueous	GC/MS Q	10/19/12	10/19/12	121019L01					
Parameter	<u>SPIKE ADDED</u>	<u>LCS CONC</u>	<u>LCS %REC</u>	<u>LCSD CONC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>ME CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Benzene	50.00	51.33	103	48.66	97	80-120	73-127	5	0-20	
Carbon Tetrachloride	50.00	57.16	114	55.21	110	66-138	54-150	3	0-20	
Chlorobenzene	50.00	59.59	119	55.92	112	80-120	73-127	6	0-20	
1,2-Dibromoethane	50.00	58.27	117	57.73	115	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	50.00	56.99	114	57.11	114	80-120	73-127	0	0-20	
1,2-Dichloroethane	50.00	50.95	102	48.74	97	80-129	72-137	4	0-20	
1,1-Dichloroethene	50.00	50.71	101	48.13	96	71-131	61-141	5	0-20	
Ethylbenzene	50.00	62.12	124	58.56	117	80-123	73-130	6	0-20	ME
Toluene	50.00	54.28	109	51.49	103	79-121	72-128	5	0-20	
Trichloroethene	50.00	54.21	108	53.17	106	80-120	73-127	2	0-20	
Vinyl Chloride	50.00	42.69	85	41.28	83	70-136	59-147	3	0-20	
p/m-Xylene	100.0	108.0	108	102.3	102	75-125	67-133	5	0-25	
o-Xylene	50.00	53.91	108	52.49	105	75-125	67-133	3	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	56.31	113	55.57	111	72-126	63-135	1	0-22	
Tert-Butyl Alcohol (TBA)	250.0	270.6	108	263.6	105	71-125	62-134	3	0-25	
Diisopropyl Ether (DIPE)	50.00	45.45	91	44.56	89	69-129	59-139	2	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	51.97	104	51.87	104	69-129	59-139	0	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	54.94	110	52.97	106	67-133	56-144	4	0-20	
Ethanol	500.0	355.5	71	422.5	84	47-155	29-173	17	0-36	

Total number of LCS compounds : 19
 Total number of ME compounds : 1
 Total number of ME compounds allowed : 1
 LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 12-10-1241

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

MPN - Most Probable Number



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: Calscience PM: Ranjit Clark

DHS #

MUST MEET SPECIFICATIONS

- EPA
- LIA
- OTHER

RWQCB REGION

12-10-1241

SPECIAL INSTRUCTIONS

Invoice and Report to:

Parsons - Mary Lucas (mary.lucas@parsons.com)

100 W Walnut St., Pasadena, CA 91124 (626) 440-6032

Project # 746442

CHAIN OF CUSTODY

CLIENT: **Parsons**

SITE: **Norwalk GWM**

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS		VOC's (including BTEX, MTBE, TBA, EPA 8260)	TPH as JP5 (8015)	TPHg (8015)					ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
			W = H2O	TOTAL												
GMW-65	10/17/12	0840	W	4	VOA/AMBER	X	X									1
GMW-64	10/17/12	0929	W	4	VOA/AMBER	X	X									2
GMW-63	10/17/12	1009	W	4	VOA/AMBER	X	X									3
GMW-66	10/17/12	1111	W	4	VOA/AMBER	X	X									4
GMW-58	10/17/12	1201	W	4	VOA/AMBER	X	X									5
GMW-45	10/17/12	1259	W	4	VOA/AMBER	X	X									6
GMW-47	10/17/12	1346	W	4	VOA/AMBER	X	X									7
GMW-60	10/17/12	1426	W	7	VOA/AMBER	X	X	X								8
TB-03	10/17/12	0815	W	3	VOA	X										9
GMW-60008	10/17/12		W	4	VOA/AMBER	X	X									10

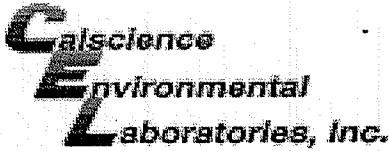
SAMPLING COMPLETED: DATE 10/17/12 TIME 1326 SAMPLING PERFORMED BY EDUARDO BUDANO RESULTS NEEDED NO LATER THAN Standard

RELEASED BY: [Signature] DATE 10/17/12 TIME 1550 RECEIVED BY: Nicole (sc) DATE 10/17/12 TIME 1550

RELEASED BY: Nicole (sc) DATE 10/17/12 TIME 1710 RECEIVED BY: [Signature] CBZ DATE 10/17/12 TIME 1710

RELEASED BY: [Signature] DATE 10/17/12 TIME 1900 RECEIVED BY: [Signature] DATE 10/17/12 TIME 1900

SHIPPED VIA: DATE SENT: TIME SENT: COOLER #:



WORK ORDER #: 12-10-1241

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Parsons

DATE: 10/17/12

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0°C - 6.0°C, not frozen)

Temperature 1.9°C - 0.3°C (CF) = 1.6°C [X] Blank [] Sample

- [] Sample(s) outside temperature criteria (PM/APM contacted by: _____).
[] Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.
[] Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: [] Air [] Filter

Initial: [Signature]

CUSTODY SEALS INTACT:

- [] Cooler [] _____ [] No (Not Intact) [X] Not Present [] N/A
[] Sample [] _____ [] No (Not Intact) [X] Not Present

Initial: [Signature]
Initial: [Signature]

SAMPLE CONDITION:

Table with 4 columns: Item, Yes, No, N/A. Rows include Chain-Of-Custody (COC) document(s) received with samples, COC document(s) received complete, Collection date/time, matrix, and/or # of containers logged in based on sample labels, No analysis requested, Not relinquished, No date/time relinquished, Sampler's name indicated on COC, Sample container label(s) consistent with COC, Sample container(s) intact and good condition, Proper containers and sufficient volume for analyses requested, Analyses received within holding time, pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours, Proper preservation noted on COC or sample container, Unpreserved vials received for Volatiles analysis, Volatile analysis container(s) free of headspace, Tedlar bag(s) free of condensation.

CONTAINER TYPE:

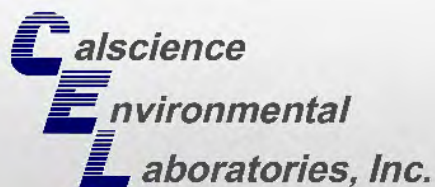
- Solid: [] 4ozCGJ [] 8ozCGJ [] 16ozCGJ [] Sleeve (____) [] EnCores® [] TerraCores® [] _____
Water: [] VOA [X] VOA³h [] VOAna₂ [] 125AGB [] 125AGBh [] 125AGBp [] 1AGB [] 1AGBna₂ [] 1AGBs
[] 500AGB [X] 500AGJ [] 500AGJs [] 250AGB [] 250CGB [] 250CGBs [] 1PB [] 1PBna [] 500PB
[] 250PB [] 250PBn [] 125PB [] 125PBz₂na [] 100PJ [] 100PJna₂ [] _____ [] _____ [] _____

Air: [] Tedlar® [] Canister Other: [] _____ Trip Blank Lot#: 121011A Labeled/Checked by: [Signature]

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: [Signature]

Preservative: h: HCL n: HNO₃ na₂:Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z₂na: ZnAc₂+NaOH f: Filtered Scanned by: [Signature]





CALSCIENCE

WORK ORDER NUMBER: 12-10-1462

The difference is service



AIR · SOIL · WATER · MARINE CHEMISTRY

Analytical Report For

Client: Parsons Government Services, Inc.

Client Project Name: NORWALK GWM

Attention: Mary Lucas
100 West Walnut Street
Pasadena, CA 91124-0002

Ranjit K. F. Clarke

Approved for release on 10/29/2012 by:
Ranjit Clarke
Project Manager

ResultLink ▶

Email your PM ▶



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Work Order Number: 12-10-1462

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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/19/12
Work Order No: 12-10-1462
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: NORWALK GWM

Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW-6	12-10-1462-1-D	10/19/12 08:07	Aqueous	GC 45	10/24/12	10/25/12 20:15	121024B02

Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	115	68-140			

PZ-3	12-10-1462-2-D	10/19/12 08:50	Aqueous	GC 45	10/24/12	10/25/12 20:30	121024B02
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	5000	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	104	68-140			

PZ-3 DUP	12-10-1462-3-D	10/19/12 00:00	Aqueous	GC 45	10/24/12	10/25/12 20:46	121024B02
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	5900	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	102	68-140			

MW-23(MID)	12-10-1462-4-D	10/19/12 09:39	Aqueous	GC 45	10/24/12	10/25/12 21:00	121024B02
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	3600	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	94	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/19/12
Work Order No: 12-10-1462
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: NORWALK GWM

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-61	12-10-1462-5-G	10/19/12 10:21	Aqueous	GC 45	10/24/12	10/25/12 21:16	121024B02

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	800	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	100	68-140			

GMW-61DUP	12-10-1462-6-D	10/19/12 00:00	Aqueous	GC 45	10/24/12	10/25/12 21:31	121024B02
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	880	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	106	68-140			

GMW-59	12-10-1462-7-G	10/19/12 11:15	Aqueous	GC 45	10/24/12	10/25/12 21:47	121024B02
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	4800	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	100	68-140			

GMW-59DUP	12-10-1462-8-D	10/19/12 00:00	Aqueous	GC 45	10/24/12	10/25/12 22:01	121024B02
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	5500	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	106	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/19/12
Work Order No: 12-10-1462
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-32	12-10-1462-10-D	10/19/12 12:24	Aqueous	GC 45	10/24/12	10/25/12 22:17	121024B02

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	1300	100	1		ug/L

<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>
n-Octacosane	96	68-140	

Method Blank	099-15-334-10	N/A	Aqueous	GC 45	10/24/12	10/25/12 19:29	121024B02
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L

<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>
n-Octacosane	106	68-140	

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/19/12
Work Order No: 12-10-1462
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project: NORWALK GWM

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-61	12-10-1462-5-E	10/19/12 10:21	Aqueous	GC 25	10/26/12	10/26/12 14:26	121026B01

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as Gasoline	1500	100	1	HD	ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	187	38-134		2,7	

GMW-59	12-10-1462-7-E	10/19/12 11:15	Aqueous	GC 25	10/26/12	10/26/12 16:40	121026B01
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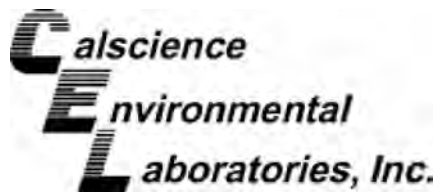
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as Gasoline	3400	200	2	HD	ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	114	38-134			

Method Blank	099-15-704-76	N/A	Aqueous	GC 25	10/26/12	10/26/12 12:46	121026B01
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	72	38-134			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/19/12
Work Order No: 12-10-1462
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW-6	12-10-1462-1-A	10/19/12 08:07	Aqueous	GC/MS FFF	10/22/12	10/23/12 00:22	121022L02

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

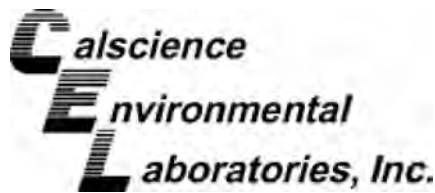
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	0.67	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	95	80-120		Dibromofluoromethane	97	80-126	
1,2-Dichloroethane-d4	93	80-134		Toluene-d8	102	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Return to Contents



Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/19/12
Work Order No: 12-10-1462
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

Page 2 of 12

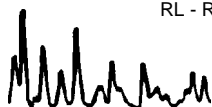
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PZ-3	12-10-1462-2-A	10/19/12 08:50	Aqueous	GC/MS FFF	10/22/12	10/23/12 00:50	121022L02

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

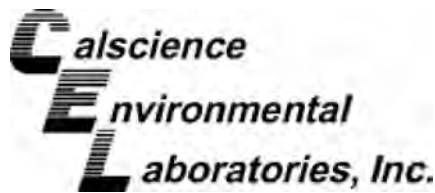
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	280	2.5	0.71	5		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	150	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	33	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	6.1	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	6.6	1.0	0.23	1		Naphthalene	47	10	2.5	1	
sec-Butylbenzene	8.0	1.0	0.25	1		n-Propylbenzene	31	1.0	0.17	1	
tert-Butylbenzene	1.5	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	110	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	40	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	360	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	1.7	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	80-120		Dibromofluoromethane	98	80-126	
1,2-Dichloroethane-d4	96	80-134		Toluene-d8	107	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/19/12
Work Order No: 12-10-1462
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PZ-3 DUP	12-10-1462-3-A	10/19/12 00:00	Aqueous	GC/MS FFF	10/22/12	10/23/12 01:18	121022L02

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

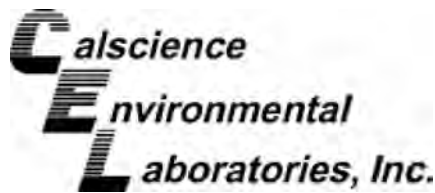
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	270	2.5	0.71	5		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	140	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	29	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	4.7	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	4.8	1.0	0.23	1		Naphthalene	46	10	2.5	1	
sec-Butylbenzene	6.3	1.0	0.25	1		n-Propylbenzene	26	1.0	0.17	1	
tert-Butylbenzene	1.2	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	90	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	33	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	340	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	1.7	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	98	80-120		Dibromofluoromethane	95	80-126	
1,2-Dichloroethane-d4	94	80-134		Toluene-d8	106	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/19/12
Work Order No: 12-10-1462
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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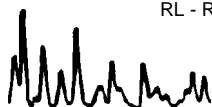
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-23(MID)	12-10-1462-4-B	10/19/12 09:39	Aqueous	GC/MS FFF	10/23/12	10/24/12 03:39	121023L02

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

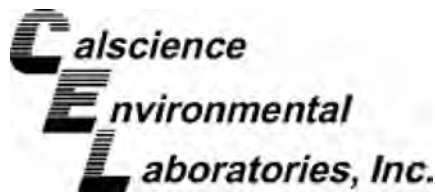
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	0.25	0.50	0.14	1	J
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	1.8	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	0.56	1.0	0.23	1	J	Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	1.3	1.0	0.25	1		n-Propylbenzene	0.72	1.0	0.17	1	J
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	0.43	1.0	0.36	1	J
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	0.43	0.50	0.24	1	J
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	4.3	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	80-120		Dibromofluoromethane	87	80-126	
1,2-Dichloroethane-d4	83	80-134		Toluene-d8	101	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/19/12
Work Order No: 12-10-1462
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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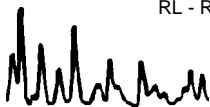
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-61	12-10-1462-5-A	10/19/12 10:21	Aqueous	GC/MS FFF	10/22/12	10/23/12 03:40	121022L02

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

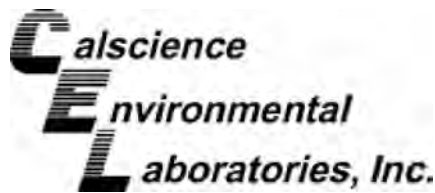
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	19	20	10	1	J	c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	290	2.5	0.71	5		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	2.5	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	47	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	2.0	1.0	0.23	1		Naphthalene	47	10	2.5	1	
sec-Butylbenzene	6.9	1.0	0.25	1		n-Propylbenzene	26	1.0	0.17	1	
tert-Butylbenzene	1.1	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	0.87	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	0.63	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	99	80-120		Dibromofluoromethane	96	80-126	
1,2-Dichloroethane-d4	95	80-134		Toluene-d8	102	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/19/12
Work Order No: 12-10-1462
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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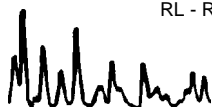
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-61DUP	12-10-1462-6-A	10/19/12 00:00	Aqueous	GC/MS FFF	10/22/12	10/23/12 04:08	121022L02

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

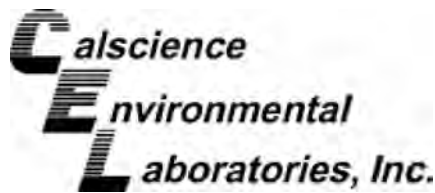
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	18	20	10	1	J	c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	250	2.5	0.71	5		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	2.4	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	45	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	2.0	1.0	0.23	1		Naphthalene	46	10	2.5	1	
sec-Butylbenzene	6.8	1.0	0.25	1		n-Propylbenzene	26	1.0	0.17	1	
tert-Butylbenzene	1.1	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	0.87	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	0.52	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	99	80-120		Dibromofluoromethane	95	80-126	
1,2-Dichloroethane-d4	95	80-134		Toluene-d8	101	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/19/12
Work Order No: 12-10-1462
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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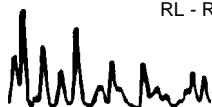
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-59	12-10-1462-7-A	10/19/12 11:15	Aqueous	GC/MS FFF	10/22/12	10/23/12 04:36	121022L02

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

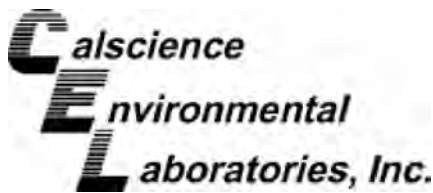
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	200	100	10		c-1,3-Dichloropropene	ND	5.0	2.5	10	
Benzene	1000	5.0	1.4	10		t-1,3-Dichloropropene	ND	5.0	2.5	10	
Bromobenzene	ND	10	3.0	10		Ethylbenzene	1.8	5.0	1.4	10	J
Bromochloromethane	ND	10	4.8	10		2-Hexanone	ND	100	21	10	
Bromodichloromethane	ND	10	2.1	10		Isopropylbenzene	25	10	5.8	10	
Bromoform	ND	10	5.0	10		p-Isopropyltoluene	ND	10	1.6	10	
Bromomethane	ND	50	39	10		Methylene Chloride	ND	50	6.4	10	
2-Butanone	ND	100	22	10		4-Methyl-2-Pentanone	ND	100	44	10	
n-Butylbenzene	ND	10	2.3	10		Naphthalene	28	100	25	10	J
sec-Butylbenzene	3.4	10	2.5	10	J	n-Propylbenzene	21	10	1.7	10	
tert-Butylbenzene	ND	10	2.8	10		Styrene	ND	10	1.7	10	
Carbon Disulfide	ND	100	4.1	10		1,1,1,2-Tetrachloroethane	ND	10	4.0	10	
Carbon Tetrachloride	ND	5.0	2.3	10		1,1,2,2-Tetrachloroethane	ND	10	4.1	10	
Chlorobenzene	ND	10	1.7	10		Tetrachloroethene	ND	10	3.9	10	
Chloroethane	ND	50	23	10		Toluene	ND	5.0	2.4	10	
Chloroform	ND	10	4.6	10		1,2,3-Trichlorobenzene	ND	10	5.1	10	
Chloromethane	ND	50	18	10		1,2,4-Trichlorobenzene	ND	10	5.0	10	
2-Chlorotoluene	ND	10	2.4	10		1,1,1-Trichloroethane	ND	10	3.0	10	
4-Chlorotoluene	ND	10	1.3	10		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	100	7.8	10	
Dibromochloromethane	ND	10	2.5	10		1,1,2-Trichloroethane	ND	10	3.8	10	
1,2-Dibromo-3-Chloropropane	ND	50	12	10		Trichloroethene	ND	10	3.7	10	
1,2-Dibromoethane	ND	10	3.6	10		Trichlorofluoromethane	ND	100	17	10	
Dibromomethane	ND	10	4.6	10		1,2,3-Trichloropropane	ND	50	6.4	10	
1,2-Dichlorobenzene	ND	10	4.6	10		1,2,4-Trimethylbenzene	ND	10	3.6	10	
1,3-Dichlorobenzene	ND	10	4.0	10		1,3,5-Trimethylbenzene	ND	10	2.8	10	
1,4-Dichlorobenzene	ND	10	4.3	10		Vinyl Acetate	ND	100	28	10	
Dichlorodifluoromethane	ND	10	4.6	10		Vinyl Chloride	ND	5.0	3.0	10	
1,1-Dichloroethane	ND	10	2.8	10		p/m-Xylene	ND	5.0	2.4	10	
1,2-Dichloroethane	ND	5.0	2.4	10		o-Xylene	ND	5.0	2.3	10	
1,1-Dichloroethene	ND	10	4.3	10		Methyl-t-Butyl Ether (MTBE)	7.8	5.0	3.1	10	
c-1,2-Dichloroethene	ND	10	4.8	10		Tert-Butyl Alcohol (TBA)	ND	100	46	10	
t-1,2-Dichloroethene	ND	10	3.7	10		Diisopropyl Ether (DIPE)	ND	20	3.3	10	
1,2-Dichloropropane	ND	10	4.2	10		Ethyl-t-Butyl Ether (ETBE)	ND	20	4.4	10	
1,3-Dichloropropane	ND	10	3.0	10		Tert-Amyl-Methyl Ether (TAME)	ND	20	2.2	10	
2,2-Dichloropropane	ND	10	3.6	10		Ethanol	ND	1000	500	10	
1,1-Dichloropropene	ND	10	4.6	10							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	80-120		Dibromofluoromethane	95	80-126	
1,2-Dichloroethane-d4	96	80-134		Toluene-d8	102	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/19/12
Work Order No: 12-10-1462
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-59DUP	12-10-1462-8-A	10/19/12 00:00	Aqueous	GC/MS FFF	10/22/12	10/23/12 05:04	121022L02

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

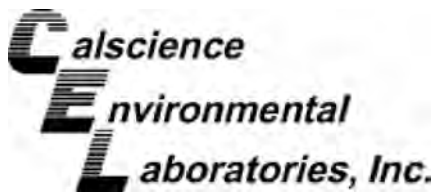
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	200	100	10		c-1,3-Dichloropropene	ND	5.0	2.5	10	
Benzene	1000	5.0	1.4	10		t-1,3-Dichloropropene	ND	5.0	2.5	10	
Bromobenzene	ND	10	3.0	10		Ethylbenzene	1.8	5.0	1.4	10	J
Bromochloromethane	ND	10	4.8	10		2-Hexanone	ND	100	21	10	
Bromodichloromethane	ND	10	2.1	10		Isopropylbenzene	25	10	5.8	10	
Bromoform	ND	10	5.0	10		p-Isopropyltoluene	ND	10	1.6	10	
Bromomethane	ND	50	39	10		Methylene Chloride	ND	50	6.4	10	
2-Butanone	ND	100	22	10		4-Methyl-2-Pentanone	ND	100	44	10	
n-Butylbenzene	ND	10	2.3	10		Naphthalene	ND	100	25	10	
sec-Butylbenzene	3.1	10	2.5	10	J	n-Propylbenzene	21	10	1.7	10	
tert-Butylbenzene	ND	10	2.8	10		Styrene	ND	10	1.7	10	
Carbon Disulfide	ND	100	4.1	10		1,1,1,2-Tetrachloroethane	ND	10	4.0	10	
Carbon Tetrachloride	ND	5.0	2.3	10		1,1,2,2-Tetrachloroethane	ND	10	4.1	10	
Chlorobenzene	ND	10	1.7	10		Tetrachloroethene	ND	10	3.9	10	
Chloroethane	ND	50	23	10		Toluene	ND	5.0	2.4	10	
Chloroform	ND	10	4.6	10		1,2,3-Trichlorobenzene	ND	10	5.1	10	
Chloromethane	ND	50	18	10		1,2,4-Trichlorobenzene	ND	10	5.0	10	
2-Chlorotoluene	ND	10	2.4	10		1,1,1-Trichloroethane	ND	10	3.0	10	
4-Chlorotoluene	ND	10	1.3	10		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	100	7.8	10	
Dibromochloromethane	ND	10	2.5	10		1,1,2-Trichloroethane	ND	10	3.8	10	
1,2-Dibromo-3-Chloropropane	ND	50	12	10		Trichloroethene	ND	10	3.7	10	
1,2-Dibromoethane	ND	10	3.6	10		Trichlorofluoromethane	ND	100	17	10	
Dibromomethane	ND	10	4.6	10		1,2,3-Trichloropropane	ND	50	6.4	10	
1,2-Dichlorobenzene	ND	10	4.6	10		1,2,4-Trimethylbenzene	ND	10	3.6	10	
1,3-Dichlorobenzene	ND	10	4.0	10		1,3,5-Trimethylbenzene	ND	10	2.8	10	
1,4-Dichlorobenzene	ND	10	4.3	10		Vinyl Acetate	ND	100	28	10	
Dichlorodifluoromethane	ND	10	4.6	10		Vinyl Chloride	ND	5.0	3.0	10	
1,1-Dichloroethane	ND	10	2.8	10		p/m-Xylene	ND	5.0	2.4	10	
1,2-Dichloroethane	ND	5.0	2.4	10		o-Xylene	ND	5.0	2.3	10	
1,1-Dichloroethene	ND	10	4.3	10		Methyl-t-Butyl Ether (MTBE)	7.5	5.0	3.1	10	
c-1,2-Dichloroethene	ND	10	4.8	10		Tert-Butyl Alcohol (TBA)	ND	100	46	10	
t-1,2-Dichloroethene	ND	10	3.7	10		Diisopropyl Ether (DIPE)	ND	20	3.3	10	
1,2-Dichloropropane	ND	10	4.2	10		Ethyl-t-Butyl Ether (ETBE)	ND	20	4.4	10	
1,3-Dichloropropane	ND	10	3.0	10		Tert-Amyl-Methyl Ether (TAME)	ND	20	2.2	10	
2,2-Dichloropropane	ND	10	3.6	10		Ethanol	ND	1000	500	10	
1,1-Dichloropropene	ND	10	4.6	10							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	80-120		Dibromofluoromethane	92	80-126	
1,2-Dichloroethane-d4	91	80-134		Toluene-d8	102	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/19/12
Work Order No: 12-10-1462
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-05	12-10-1462-9-A	10/19/12 07:40	Aqueous	GC/MS FFF	10/22/12	10/23/12 05:33	121022L02

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

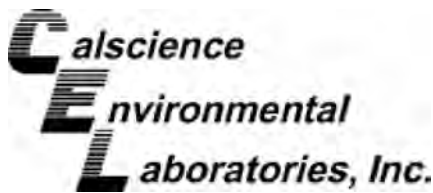
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	80-120		Dibromofluoromethane	93	80-126	
1,2-Dichloroethane-d4	93	80-134		Toluene-d8	102	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/19/12
Work Order No: 12-10-1462
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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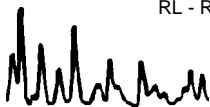
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-32	12-10-1462-10-A	10/19/12 12:24	Aqueous	GC/MS FFF	10/22/12	10/23/12 06:01	121022L02

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

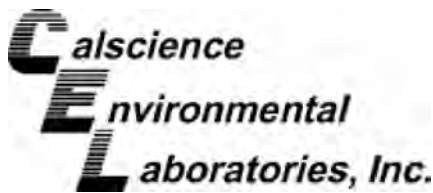
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	0.20	0.50	0.14	1	J	t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	0.14	0.50	0.14	1	J
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	2.7	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	0.92	1.0	0.25	1	J	n-Propylbenzene	0.88	1.0	0.17	1	J
tert-Butylbenzene	0.60	1.0	0.28	1	J	Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	0.32	0.50	0.24	1	J
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	80-120		Dibromofluoromethane	93	80-126	
1,2-Dichloroethane-d4	90	80-134		Toluene-d8	101	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/19/12
Work Order No: 12-10-1462
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-9,116	N/A	Aqueous	GC/MS FFF	10/22/12	10/22/12 23:54	121022L02

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

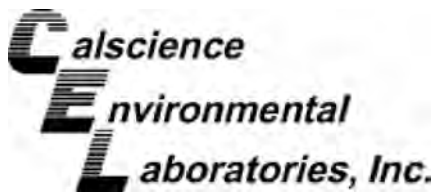
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	80-120		Dibromofluoromethane	98	80-126	
1,2-Dichloroethane-d4	95	80-134		Toluene-d8	103	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/19/12
Work Order No: 12-10-1462
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-9,130	N/A	Aqueous	GC/MS FFF	10/23/12	10/23/12 23:53	121023L02

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

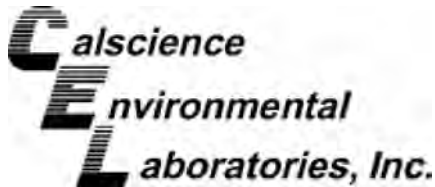
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	95	80-120		Dibromofluoromethane	86	80-126	
1,2-Dichloroethane-d4	86	80-134		Toluene-d8	101	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Quality Control - Spike/Spike Duplicate



Parsons Government Services, Inc.
 100 West Walnut Street
 Pasadena, CA 91124-0002

Date Received: 10/19/12
 Work Order No: 12-10-1462
 Preparation: EPA 5030C
 Method: EPA 8015B (M)

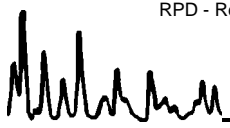
Project NORWALK GWM

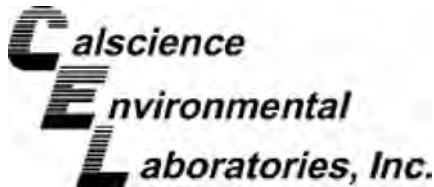
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GMW-61	Aqueous	GC 25	10/26/12	10/26/12	121026S01

Parameter	<u>SAMPLE CONC</u>	<u>SPIKE ADDED</u>	<u>MS CONC</u>	<u>MS %REC</u>	<u>MSD CONC</u>	<u>MSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Gasoline	1480	2000	3622	107	3334	93	68-122	8	0-18	

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RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/19/12
Work Order No: 12-10-1462
Preparation: EPA 5030C
Method: EPA 8260B

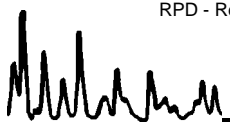
Project NORWALK GWM

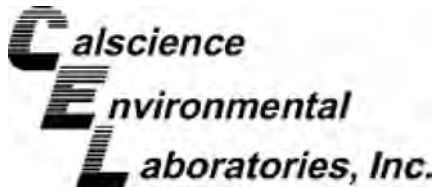
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GW-6	Aqueous	GC/MS FFF	10/22/12	10/23/12	121022S02

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	53.59	107	54.59	109	78-120	2	0-20	
Carbon Tetrachloride	ND	50.00	46.77	94	48.27	97	67-139	3	0-20	
Chlorobenzene	ND	50.00	51.35	103	52.22	104	80-120	2	0-20	
1,2-Dibromoethane	ND	50.00	52.21	104	53.09	106	80-123	2	0-20	
1,2-Dichlorobenzene	ND	50.00	49.56	99	50.80	102	76-120	2	0-20	
1,2-Dichloroethane	ND	50.00	46.44	93	47.24	94	76-130	2	0-20	
1,1-Dichloroethene	ND	50.00	49.14	98	49.24	98	70-130	0	0-27	
Ethylbenzene	ND	50.00	53.00	106	53.37	107	73-127	1	0-20	
Toluene	ND	50.00	55.29	111	56.22	112	72-126	2	0-20	
Trichloroethene	ND	50.00	50.83	102	51.77	104	74-122	2	0-20	
Vinyl Chloride	ND	50.00	57.77	116	57.80	116	65-131	0	0-24	
p/m-Xylene	ND	100.0	100.7	101	101.9	102	70-130	1	0-30	
o-Xylene	ND	50.00	50.31	101	50.64	101	70-130	1	0-30	
Methyl-t-Butyl Ether (MTBE)	0.6728	50.00	50.42	99	50.72	100	69-123	1	0-20	
Tert-Butyl Alcohol (TBA)	ND	250.0	357.8	143	318.8	128	65-131	12	0-22	3
Diisopropyl Ether (DIPE)	ND	50.00	52.31	105	52.82	106	68-128	1	0-22	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	53.69	107	53.57	107	69-123	0	0-21	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	52.56	105	53.05	106	70-124	1	0-20	
Ethanol	ND	500.0	589.5	118	594.8	119	41-155	1	0-35	

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RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 10/19/12
Work Order No: 12-10-1462
Preparation: EPA 5030C
Method: EPA 8260B

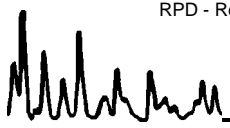
Project NORWALK GWM

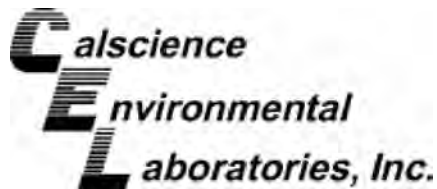
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-23(MID)	Aqueous	GC/MS FFF	10/23/12	10/24/12	121023S02

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	53.93	108	54.09	108	78-120	0	0-20	
Carbon Tetrachloride	ND	50.00	42.58	85	43.66	87	67-139	2	0-20	
Chlorobenzene	ND	50.00	52.08	104	53.11	106	80-120	2	0-20	
1,2-Dibromoethane	ND	50.00	51.84	104	53.39	107	80-123	3	0-20	
1,2-Dichlorobenzene	ND	50.00	50.97	102	51.20	102	76-120	0	0-20	
1,2-Dichloroethane	ND	50.00	44.42	89	43.94	88	76-130	1	0-20	
1,1-Dichloroethene	ND	50.00	45.54	91	46.63	93	70-130	2	0-27	
Ethylbenzene	ND	50.00	53.14	106	53.68	107	73-127	1	0-20	
Toluene	ND	50.00	55.81	112	55.76	112	72-126	0	0-20	
Trichloroethene	ND	50.00	51.59	103	51.59	103	74-122	0	0-20	
Vinyl Chloride	ND	50.00	52.68	105	54.39	109	65-131	3	0-24	
p/m-Xylene	ND	100.0	102.0	102	103.3	103	70-130	1	0-30	
o-Xylene	ND	50.00	50.67	101	51.57	103	70-130	2	0-30	
Methyl-t-Butyl Ether (MTBE)	4.264	50.00	47.78	87	49.21	90	69-123	3	0-20	
Tert-Butyl Alcohol (TBA)	ND	250.0	380.9	152	361.2	144	65-131	5	0-22	3
Diisopropyl Ether (DIPE)	ND	50.00	45.08	90	46.57	93	68-128	3	0-22	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	47.60	95	48.91	98	69-123	3	0-21	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	51.42	103	51.39	103	70-124	0	0-20	
Ethanol	ND	500.0	610.8	122	604.0	121	41-155	1	0-35	

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RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons Government Services, Inc.
 100 West Walnut Street
 Pasadena, CA 91124-0002

Date Received: N/A
 Work Order No: 12-10-1462
 Preparation: EPA 3510C
 Method: EPA 8015B (M)

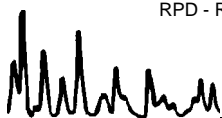
Project: NORWALK GWM

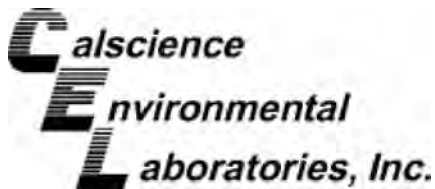
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-334-10	Aqueous	GC 45	10/24/12	10/25/12	121024B02

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as JP5	4000	3875	97	3846	96	75-117	1	0-13	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons Government Services, Inc.
 100 West Walnut Street
 Pasadena, CA 91124-0002

Date Received: N/A
 Work Order No: 12-10-1462
 Preparation: EPA 5030C
 Method: EPA 8015B (M)

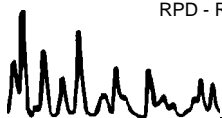
Project: NORWALK GWM

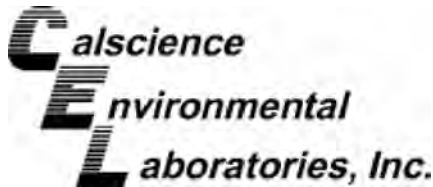
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-704-76	Aqueous	GC 25	10/26/12	10/26/12	121026B01

Parameter	<u>SPIKE ADDED</u>	<u>LCS CONC</u>	<u>LCS %REC</u>	<u>LCSD CONC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Gasoline	2000	2055	103	2112	106	78-120	3	0-10	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: N/A
Work Order No: 12-10-1462
Preparation: EPA 5030C
Method: EPA 8260B

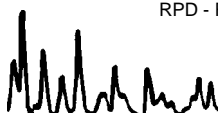
Project: NORWALK GWM

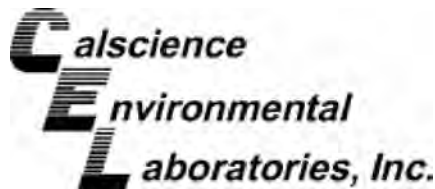
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number					
099-14-001-9,116	Aqueous	GC/MS FFF	10/22/12	10/22/12	121022L02					
Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	54.09	108	54.93	110	80-120	73-127	2	0-20	
Carbon Tetrachloride	50.00	47.82	96	48.03	96	66-138	54-150	0	0-20	
Chlorobenzene	50.00	51.48	103	51.65	103	80-120	73-127	0	0-20	
1,2-Dibromoethane	50.00	52.16	104	52.00	104	80-120	73-127	0	0-20	
1,2-Dichlorobenzene	50.00	51.42	103	49.73	99	80-120	73-127	3	0-20	
1,2-Dichloroethane	50.00	47.18	94	47.69	95	80-129	72-137	1	0-20	
1,1-Dichloroethene	50.00	50.08	100	50.41	101	71-131	61-141	1	0-20	
Ethylbenzene	50.00	52.27	105	52.62	105	80-123	73-130	1	0-20	
Toluene	50.00	56.51	113	56.54	113	79-121	72-128	0	0-20	
Trichloroethene	50.00	52.20	104	52.43	105	80-120	73-127	0	0-20	
Vinyl Chloride	50.00	59.83	120	59.43	119	70-136	59-147	1	0-20	
p/m-Xylene	100.0	101.4	101	100.9	101	75-125	67-133	1	0-25	
o-Xylene	50.00	50.29	101	50.19	100	75-125	67-133	0	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	50.02	100	48.96	98	72-126	63-135	2	0-22	
Tert-Butyl Alcohol (TBA)	250.0	264.2	106	265.9	106	71-125	62-134	1	0-25	
Diisopropyl Ether (DIPE)	50.00	52.75	106	52.83	106	69-129	59-139	0	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	53.59	107	52.98	106	69-129	59-139	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	52.61	105	52.54	105	67-133	56-144	0	0-20	
Ethanol	500.0	617.5	123	601.0	120	47-155	29-173	3	0-36	

Total number of LCS compounds : 19
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons Government Services, Inc.
 100 West Walnut Street
 Pasadena, CA 91124-0002

Date Received: N/A
 Work Order No: 12-10-1462
 Preparation: EPA 5030C
 Method: EPA 8260B

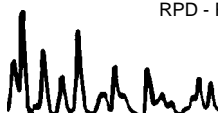
Project: NORWALK GWM

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number					
099-14-001-9,130	Aqueous	GC/MS FFF	10/23/12	10/23/12	121023L02					
Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	50.48	101	50.12	100	80-120	73-127	1	0-20	
Carbon Tetrachloride	50.00	42.15	84	41.13	82	66-138	54-150	2	0-20	
Chlorobenzene	50.00	48.59	97	50.12	100	80-120	73-127	3	0-20	
1,2-Dibromoethane	50.00	50.02	100	51.25	103	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	50.00	48.13	96	49.37	99	80-120	73-127	3	0-20	
1,2-Dichloroethane	50.00	43.19	86	42.69	85	80-129	72-137	1	0-20	
1,1-Dichloroethene	50.00	43.19	86	44.32	89	71-131	61-141	3	0-20	
Ethylbenzene	50.00	49.15	98	50.32	101	80-123	73-130	2	0-20	
Toluene	50.00	51.74	103	52.75	106	79-121	72-128	2	0-20	
Trichloroethene	50.00	47.66	95	48.78	98	80-120	73-127	2	0-20	
Vinyl Chloride	50.00	51.54	103	52.71	105	70-136	59-147	2	0-20	
p/m-Xylene	100.0	94.54	95	97.65	98	75-125	67-133	3	0-25	
o-Xylene	50.00	47.38	95	48.44	97	75-125	67-133	2	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	43.70	87	44.26	89	72-126	63-135	1	0-22	
Tert-Butyl Alcohol (TBA)	250.0	248.2	99	249.0	100	71-125	62-134	0	0-25	
Diisopropyl Ether (DIPE)	50.00	45.19	90	45.74	91	69-129	59-139	1	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	46.40	93	46.85	94	69-129	59-139	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	49.33	99	49.85	100	67-133	56-144	1	0-20	
Ethanol	500.0	551.4	110	564.4	113	47-155	29-173	2	0-36	

Total number of LCS compounds : 19
 Total number of ME compounds : 0
 Total number of ME compounds allowed : 1
 LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 12-10-1462

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

MPN - Most Probable Number



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: Calscience PM: Ranjit Clark

DHS #

MUST MEET SPECIFICATIONS

- EPA
- LIA
- OTHER

RWQCB REGION

12-10-1462

SPECIAL INSTRUCTIONS

Invoice and Report to:

Parsons - Mary Lucas (mary.lucas@parsons.com)

100 W Walnut St., Pasadena, CA 91124 (626) 440-6032

Project # 746442

CHAIN OF CUSTODY

CLIENT: Parsons

SITE: Norwalk GWM

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS			VOC's (including BTEX, MTBE, TBA, EPA 8260)	TPH as JP5 (8015)	TPHg (8015)					ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
			W = H2O	TOTAL													
GMW-6	10/19/12	0807	W	4	NOA/AMBER	X	X										1
PZ-3	10/19/12	0850	W	4	NOA/AMBER	X	X										2
PZ-3 DUP	10/19/12		W	4	NOA/AMBER	X	X										3
GMW-23(MID)	10/19/12	0939	W	4	NOA/AMBER	X	X										4
GMW-61	10/19/12	1021	W	7	NOA/AMBER	X	X	X									5
GMW-61 DUP	10/19/12		W	4	NOA/AMBER	X	X										6
GMW-59	10/19/12	1115	W	7	NOA/AMBER	X	X	X									7
GMW-59 DUP	10/19/12		W	4	NOA/AMBER	X	X										8
TB-05	10/19/12	0740	W	3	NOA	X											9
GMW-32	10/19/12	1224	W	4	NOA/AMBER	X	X										10

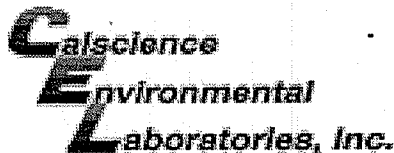
SAMPLING COMPLETED: DATE 10/19/12 TIME 1115
 SAMPLING PERFORMED BY: EDUARDO BUDANO
 RESULTS NEEDED NO LATER THAN: Standard

RELEASED BY: [Signature] DATE 10/19/12 TIME 1705 RECEIVED BY: NICOLE (SC) DATE 10/19/12 TIME 1705

RELEASED BY: NICOLE (SC) DATE 10/19/12 TIME 1708 RECEIVED BY: [Signature] DATE 10/19/12 TIME 1708

RELEASED BY: [Signature] DATE 10/19/12 TIME 1830 RECEIVED BY: [Signature] DATE 10/19/12 TIME 1830

SHIPPED VIA: DATE SENT: TIME SENT: COOLER #:



WORK ORDER #: 12-10-1402

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: BTS (Parson)

DATE: 10/19/12

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 0.8 °C - 0.3 °C (CF) = 0.5 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter

Initial: AP

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: AP

Sample _____ No (Not Intact) Not Present Initial: TS

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours...	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Water: VOA VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 1PBna 500PB

250PB 250PBn 125PB 125PBz_{nna} 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Canister Other: _____ Trip Blank Lot#: 12011A Labeled/Checked by: TS

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: [Signature]

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z_{nna}: ZnAc₂+NaOH f: Filtered Scanned by: [Signature]

Return to Contents



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135
Date Received : 11/01/12

Job: KMEP DFSP Norwalk

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID :	GMW-O-18				
Lab ID :	TPH-E (DRO)	ND	0.050 mg/L	11/01/12	11/01/12
Date Sampled	Surr: Nonane	101	(49-145) %REC	11/01/12	11/01/12
	TPH-P (GRO)	0.11	0.10 mg/L	11/02/12	11/02/12
	Surr: 1,2-Dichloroethane-d4	104	(70-130) %REC	11/02/12	11/02/12
	Surr: Toluene-d8	102	(70-130) %REC	11/02/12	11/02/12
	Surr: 4-Bromofluorobenzene	95	(70-130) %REC	11/02/12	11/02/12

Diesel Range Organics (DRO) C13-C22
Gasoline Range Organics (GRO) C4-C13
ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered in any way.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

RS

11/9/12

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12110102-01A
Client I.D. Number: GMW-O-18

Sampled: 10/30/12 11:00
Received: 11/01/12
Extracted: 11/02/12
Analyzed: 11/02/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	4.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	1.0 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	4.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	20 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	11,000	500 µg/L	53 1,2,3-Trichloropropane	ND	4.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	5.0 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	100 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	20 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	1.0 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	6.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	4.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	4.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	104	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	102	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	95	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	1.0 µg/L			
36 trans-1,3-Dichloropropene	ND	1.0 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	10 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

*This analyte was analyzed separately on 11/2/12 in order to achieve lower reporting limits for the other analytes.

Some Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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11/9/12

Report Date

Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

VOC Sample Preservation Report

Work Order: CHH12110102

Job: KMEP DFSP Norwalk

Alpha's Sample ID	Client's Sample ID	Matrix	pH
12110102-01A	GMW-O-18	Aqueous	2



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Date:
09-Nov-12

QC Summary Report

Work Order:
12110102

Method Blank

Type: MBLK Test Code: EPA Method SW8015B/C Ext

File ID: 1A11011205.D

Batch ID: 29805

Analysis Date: 11/01/2012 14:53

Sample ID: MBLK-29805

Units : mg/L

Run ID: FID_1_121101A

Prep Date: 11/01/2012 12:36

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	ND	0.05								
Surr: Nonane	0.152		0.15		101	49	145			

Laboratory Control Spike

Type: LCS Test Code: EPA Method SW8015B/C Ext

File ID: 1A11011206.D

Batch ID: 29805

Analysis Date: 11/01/2012 15:18

Sample ID: LCS-29805

Units : mg/L

Run ID: FID_1_121101A

Prep Date: 11/01/2012 12:36

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.56	0.05	2.5		102	70	130			
Surr: Nonane	0.142		0.15		95	49	145			

Sample Matrix Spike

Type: MS Test Code: EPA Method SW8015B/C Ext

File ID: 1A11011230.D

Batch ID: 29805

Analysis Date: 11/02/2012 01:22

Sample ID: 12110123-08AMS

Units : mg/L

Run ID: FID_1_121101A

Prep Date: 11/01/2012 12:36

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.53	0.05	2.5	0	101	53	150			
Surr: Nonane	0.143		0.15		95	49	145			

Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8015B/C Ext

File ID: 1A11011231.D

Batch ID: 29805

Analysis Date: 11/02/2012 01:47

Sample ID: 12110123-08AMSD

Units : mg/L

Run ID: FID_1_121101A

Prep Date: 11/01/2012 12:36

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.96	0.05	2.5	0	118	53	150	2.527	15.7(47)	
Surr: Nonane	0.14		0.15		93	49	145			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
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QC Summary Report

Work Order:
12110102

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8015B/C**

File ID: **12110206.D**

Batch ID: **MS15W1102B**

Analysis Date: **11/02/2012 12:07**

Sample ID: **MBLK MS15W1102B**

Units: **mg/L**

Run ID: **MSD_15_121102A**

Prep Date: **11/02/2012 12:07**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	0.05								
Surr: 1,2-Dichloroethane-d4	0.00994		0.01		99	70	130			
Surr: Toluene-d8	0.0102		0.01		102	70	130			
Surr: 4-Bromofluorobenzene	0.00966		0.01		97	70	130			

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8015B/C**

File ID: **12110203.D**

Batch ID: **MS15W1102B**

Analysis Date: **11/02/2012 10:51**

Sample ID: **GLCS MS15W1102B**

Units: **mg/L**

Run ID: **MSD_15_121102A**

Prep Date: **11/02/2012 10:51**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.411	0.05	0.4		103	70	130			
Surr: 1,2-Dichloroethane-d4	0.00957		0.01		96	70	130			
Surr: Toluene-d8	0.01		0.01		100	70	130			
Surr: 4-Bromofluorobenzene	0.00995		0.01		100	70	130			

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8015B/C**

File ID: **12110212.D**

Batch ID: **MS15W1102B**

Analysis Date: **11/02/2012 14:18**

Sample ID: **12110102-01AGS**

Units: **mg/L**

Run ID: **MSD_15_121102A**

Prep Date: **11/02/2012 14:18**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.06	0.25	2	0.1104	98	51	144			
Surr: 1,2-Dichloroethane-d4	0.0518		0.05		104	70	130			
Surr: Toluene-d8	0.0491		0.05		98	70	130			
Surr: 4-Bromofluorobenzene	0.0494		0.05		99	70	130			

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8015B/C**

File ID: **12110213.D**

Batch ID: **MS15W1102B**

Analysis Date: **11/02/2012 14:39**

Sample ID: **12110102-01AGSD**

Units: **mg/L**

Run ID: **MSD_15_121102A**

Prep Date: **11/02/2012 14:39**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.15	0.25	2	0.1104	102	51	144	2.061	4.4(29)	
Surr: 1,2-Dichloroethane-d4	0.0511		0.05		102	70	130			
Surr: Toluene-d8	0.0497		0.05		99	70	130			
Surr: 4-Bromofluorobenzene	0.0492		0.05		98	70	130			

Comments:

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09-Nov-12

QC Summary Report

Work Order:

12110102

n-Butylbenzene	ND	1				
1,2-Dibromo-3-chloropropane (DBCP)	ND	5				
1,2,4-Trichlorobenzene	ND	2				
Naphthalene	ND	10				
1,2,3-Trichlorobenzene	ND	2				
Xylenes, Total	ND	0.5				
Surr: 1,2-Dichloroethane-d4	9.94		10	99	70	130
Surr: Toluene-d8	10.2		10	102	70	130
Surr: 4-Bromofluorobenzene	9.66		10	97	70	130



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Date:
09-Nov-12

QC Summary Report

Work Order:
12110102

Laboratory Control Spike

Type: LCS

Test Code: EPA Method SW8260B

File ID: 12110202.D

Batch ID: MS15W1102A

Analysis Date: 11/02/2012 10:29

Sample ID: LCS MS15W1102A

Units: µg/L

Run ID: MSD_15_121102A

Prep Date: 11/02/2012 10:29

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	8.42	1	10		84	37	137			
Chloromethane	11.9	2	10		119	43	140			
Vinyl chloride	11.5	1	10		115	80	120			
Chloroethane	11	1	10		110	43	141			
Bromomethane	9.1	2	10		91	11	160			
Trichlorofluoromethane	9.64	1	10		96	40	148			
Acetone	177	10	200		88	36	171			
1,1-Dichloroethene	10.2	1	10		102	80	120			
Tertiary Butyl Alcohol (TBA)	87.3	10	100		87	44	156			
Dichloromethane	9.08	2	10		91	69	130			
Freon-113	10.6	1	10		106	70	137			
trans-1,2-Dichloroethene	10.3	1	10		103	70	130			
Methyl tert-butyl ether (MTBE)	9.22	0.5	10		92	65	140			
1,1-Dichloroethane	10.2	1	10		102	70	130			
2-Butanone (MEK)	185	10	200		93	23	182			
Di-isopropyl Ether (DIPE)	10.5	1	10		105	70	130			
cis-1,2-Dichloroethene	10.2	1	10		102	70	130			
Bromochloromethane	9.35	1	10		94	70	132			
Chloroform	10	1	10		100	80	120			
Ethyl Tertiary Butyl Ether (ETBE)	9.78	1	10		98	65	139			
2,2-Dichloropropane	8.52	1	10		85	68	154			
1,2-Dichloroethane	9.63	1	10		96	70	132			
1,1,1-Trichloroethane	10.1	1	10		101	70	135			
1,1-Dichloropropene	11	1	10		110	70	130			
Carbon tetrachloride	10.3	1	10		103	61	148			
Benzene	10.3	0.5	10		103	70	130			
Tertiary Amyl Methyl Ether (TAME)	9.42	1	10		94	68	134			
Dibromomethane	9.9	1	10		99	70	130			
1,2-Dichloropropane	10.5	1	10		105	80	120			
Trichloroethene	9.69	1	10		97	65	144			
Bromodichloromethane	9.66	1	10		97	50	157			
4-Methyl-2-pentanone (MIBK)	23.4	2.5	25		94	20	182			
cis-1,3-Dichloropropene	7.84	1	10		78	70	131			
trans-1,3-Dichloropropene	6.69	1	10		67	70	136			
1,1,2-Trichloroethane	9.82	1	10		98	70	130			
Toluene	10.2	0.5	10		102	80	120			
1,3-Dichloropropane	9.79	1	10		98	70	130			
2-Hexanone	83.9	5	100		84	20	182			
Dibromochloromethane	8.64	1	10		86	42	155			
1,2-Dibromoethane (EDB)	18.7	2	20		93	70	130			
Tetrachloroethene	9.69	1	10		97	70	130			
1,1,1,2-Tetrachloroethane	9.86	1	10		99	70	130			
Chlorobenzene	10.2	1	10		102	70	130			
Ethylbenzene	10.6	0.5	10		106	80	120			
m,p-Xylene	10.6	0.5	10		106	70	130			
Bromoform	8.66	1	10		87	68	143			
Styrene	10.4	1	10		104	64	153			
o-Xylene	9.76	0.5	10		98	70	130			
1,1,2,2-Tetrachloroethane	10.4	1	10		104	70	130			
1,2,3-Trichloropropane	19.5	2	20		98	70	130			
Isopropylbenzene	10.1	1	10		101	68	138			
Bromobenzene	9.58	1	10		96	70	130			
n-Propylbenzene	10.4	1	10		104	70	133			
4-Chlorotoluene	10.2	1	10		102	70	130			
2-Chlorotoluene	10.2	1	10		102	70	130			
1,3,5-Trimethylbenzene	10.3	1	10		103	70	134			
tert-Butylbenzene	10.4	1	10		104	55	147			
1,2,4-Trimethylbenzene	10.7	1	10		107	70	134			
sec-Butylbenzene	10.3	1	10		103	70	135			
1,3-Dichlorobenzene	10.1	1	10		101	70	130			
1,4-Dichlorobenzene	9.86	1	10		99	70	130			
4-Isopropyltoluene	10.7	1	10		107	70	132			
1,2-Dichlorobenzene	9.6	1	10		96	70	130			
n-Butylbenzene	11.2	1	10		112	70	134			
1,2-Dibromo-3-chloropropane (DBCP)	48.8	3	50		98	67	130			

L50



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09-Nov-12

QC Summary Report

Work Order:

12110102

1,2,4-Trichlorobenzene	8.25	2	10	83	67	132
Naphthalene	7.3	2	10	73	38	154
1,2,3-Trichlorobenzene	7.66	2	10	77	56	137
Xylenes, Total	20.3	0.5	20	102	70	130
Surr: 1,2-Dichloroethane-d4	10.7		10	107	70	130
Surr: Toluene-d8	9.97		10	99.7	70	130
Surr: 4-Bromofluorobenzene	9.91		10	99	70	130



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Date:
09-Nov-12

QC Summary Report

Work Order:
12110102

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8260B**

File ID: **12110210.D**

Batch ID: **MS15W1102A**

Analysis Date: **11/02/2012 13:34**

Sample ID: **12103143-02AMS**

Units: **µg/L**

Run ID: **MSD_15_121102A**

Prep Date: **11/02/2012 13:34**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	44.1	2.5	50	0	88	21	138			
Chloromethane	49.2	10	50	0	98	23	144			
Vinyl chloride	56.6	2.5	50	0	113	49	136			
Chloroethane	53.1	2.5	50	0	106	21	159			
Bromomethane	34.5	10	50	0	69	10	174			
Trichlorofluoromethane	45.9	2.5	50	0	92	32	154			
Acetone	900	50	1000	0	90	10	171			
1,1-Dichloroethene	48.9	2.5	50	0	98	64	130			
Tertiary Butyl Alcohol (TBA)	508	25	500	0	102	41	157			
Dichloromethane	46.5	10	50	0	93	69	130			
Freon-113	47.8	2.5	50	0	96	55	141			
trans-1,2-Dichloroethene	48.9	2.5	50	0	98	63	130			
Methyl tert-butyl ether (MTBE)	51.5	1.3	50	0	103	47	150			
1,1-Dichloroethane	50.1	2.5	50	0	100	66	130			
2-Butanone (MEK)	972	50	1000	0	97	23	182			
Di-isopropyl Ether (DIPE)	53	2.5	50	0	106	59	139			
cis-1,2-Dichloroethene	49.5	2.5	50	0	99	70	130			
Bromochloromethane	44.5	2.5	50	0	89	70	132			
Chloroform	49.4	2.5	50	0	99	70	130			
Ethyl Tertiary Butyl Ether (ETBE)	51.3	2.5	50	0	103	59	182			
2,2-Dichloropropane	41.1	2.5	50	0	82	38	154			
1,2-Dichloroethane	50.8	2.5	50	0	102	65	134			
1,1,1-Trichloroethane	49.9	2.5	50	0	99.7	65	136			
1,1-Dichloropropene	51.4	2.5	50	0	103	68	132			
Carbon tetrachloride	47.5	2.5	50	0	95	58	148			
Benzene	49.2	1.3	50	0	98	59	138			
Tertiary Amyl Methyl Ether (TAME)	50.9	2.5	50	0	102	63	135			
Dibromomethane	51.1	2.5	50	0	102	70	130			
1,2-Dichloropropane	51.3	2.5	50	0	103	70	131			
Trichloroethene	45.1	2.5	50	0	90	65	144			
Bromodichloromethane	48.4	2.5	50	0	97	50	157			
4-Methyl-2-pentanone (MIBK)	126	13	125	0	101	20	182			
cis-1,3-Dichloropropene	38.3	2.5	50	0	77	63	131			
trans-1,3-Dichloropropene	34.3	2.5	50	0	69	65	136			
1,1,2-Trichloroethane	51.7	2.5	50	0	103	70	131			
Toluene	47.6	1.3	50	0	95	68	130			
1,3-Dichloropropane	50.8	2.5	50	0	102	70	130			
2-Hexanone	329	25	500	0	66	20	182			
Dibromochloromethane	43.9	2.5	50	0	88	42	155			
1,2-Dibromoethane (EDB)	96	5	100	0	96	70	130			
Tetrachloroethene	42.1	2.5	50	0	84	65	130			
1,1,1,2-Tetrachloroethane	47.9	2.5	50	0	96	70	130			
Chlorobenzene	48.2	2.5	50	0	96	70	130			
Ethylbenzene	48.2	1.3	50	0	96	68	130			
m,p-Xylene	47.8	1.3	50	0	96	68	131			
Bromoform	44.6	2.5	50	0	89	65	143			
Styrene	49.2	2.5	50	0	98	59	153			
o-Xylene	45.4	1.3	50	0	91	70	130			
1,1,2,2-Tetrachloroethane	55.9	2.5	50	0	112	67	130			
1,2,3-Trichloropropane	106	10	100	0	106	70	130			
Isopropylbenzene	46.2	2.5	50	0	92	55	138			
Bromobenzene	45.8	2.5	50	0	92	70	130			
n-Propylbenzene	45.9	2.5	50	0	92	67	133			
4-Chlorotoluene	46.2	2.5	50	0	92	70	130			
2-Chlorotoluene	46.5	2.5	50	0	93	70	130			
1,3,5-Trimethylbenzene	46.5	2.5	50	0	93	67	134			
tert-Butylbenzene	47.2	2.5	50	0	94	55	147			
1,2,4-Trimethylbenzene	48.2	2.5	50	0	96	65	135			
sec-Butylbenzene	44.4	2.5	50	0	89	68	135			
1,3-Dichlorobenzene	46.3	2.5	50	0	93	70	130			
1,4-Dichlorobenzene	45.8	2.5	50	0	92	70	130			
4-Isopropyltoluene	45.9	2.5	50	0	92	68	132			
1,2-Dichlorobenzene	47.1	2.5	50	0	94	70	130			
n-Butylbenzene	45.4	2.5	50	0	91	62	134			
1,2-Dibromo-3-chloropropane (DBCP)	268	15	250	0	107	64	130			



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Work Order:

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1,2,4-Trichlorobenzene	38.4	10	50	0	77	62	133
Naphthalene	40	10	50	0	80	32	166
1,2,3-Trichlorobenzene	38.5	10	50	0	77	55	138
Xylenes, Total	93.1	1.3	100	0	93	70	130
Surr: 1,2-Dichloroethane-d4	56.4		50		113	70	130
Surr: Toluene-d8	49.6		50		99	70	130
Surr: 4-Bromofluorobenzene	49.3		50		99	70	130



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QC Summary Report

Date:
09-Nov-12

Work Order:
12110102

Sample Matrix Spike Duplicate
File ID: 12110211.D

Type: MSD Test Code: EPA Method SW8260B

Batch ID: MS15W1102A

Analysis Date: 11/02/2012 13:56

Sample ID: 12103143-02AMSD

Units : µg/L

Run ID: MSD_15_121102A

Prep Date: 11/02/2012 13:56

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	42.2	2.5	50	0	84	21	138	44.05	4.2(33)	
Chloromethane	51.9	10	50	0	104	23	144	49.18	5.4(27)	
Vinyl chloride	54.5	2.5	50	0	109	49	136	56.64	3.8(21)	
Chloroethane	51.2	2.5	50	0	102	21	159	53.05	3.6(40)	
Bromomethane	40.5	10	50	0	81	10	174	34.5	16.0(40)	
Trichlorofluoromethane	43.3	2.5	50	0	87	32	154	45.86	5.7(37)	
Acetone	905	50	1000	0	91	10	171	900.2	0.6(23)	
1,1-Dichloroethene	47.7	2.5	50	0	95	64	130	48.92	2.4(21)	
Tertiary Butyl Alcohol (TBA)	529	25	500	0	106	41	157	507.7	4.1(30)	
Dichloromethane	45.2	10	50	0	90	69	130	46.49	2.8(20)	
Freon-113	46.8	2.5	50	0	94	55	141	47.76	2.1(40)	
trans-1,2-Dichloroethene	47.5	2.5	50	0	95	63	130	48.92	2.9(20)	
Methyl tert-butyl ether (MTBE)	48.8	1.3	50	0	98	47	150	51.49	5.3(40)	
1,1-Dichloroethane	48.1	2.5	50	0	96	66	130	50.14	4.2(20)	
2-Butanone (MEK)	975	50	1000	0	98	23	182	972.2	0.3(22)	
Di-isopropyl Ether (DIPE)	52.3	2.5	50	0	105	59	139	52.97	1.3(20)	
cis-1,2-Dichloroethene	47.5	2.5	50	0	95	70	130	49.54	4.2(20)	
Bromochloromethane	44.5	2.5	50	0	89	70	132	44.46	0.0(20)	
Chloroform	47.5	2.5	50	0	95	70	130	49.43	3.9(20)	
Ethyl Tertiary Butyl Ether (ETBE)	50.5	2.5	50	0	101	59	182	51.27	1.6(40)	
2,2-Dichloropropane	39.9	2.5	50	0	80	38	154	41.12	3.1(22)	
1,2-Dichloroethane	49.2	2.5	50	0	98	65	134	50.84	3.2(20)	
1,1,1-Trichloroethane	47.9	2.5	50	0	96	65	136	49.85	4.0(20)	
1,1-Dichloropropene	50.2	2.5	50	0	100	68	132	51.41	2.4(20)	
Carbon tetrachloride	45.8	2.5	50	0	92	58	148	47.5	3.7(20)	
Benzene	47.7	1.3	50	0	95	59	138	49.17	3.0(21)	
Tertiary Amyl Methyl Ether (TAME)	49.2	2.5	50	0	98	63	135	50.86	3.3(40)	
Dibromomethane	50.1	2.5	50	0	100	70	130	51.13	2.0(20)	
1,2-Dichloropropane	50.5	2.5	50	0	101	70	131	51.28	1.5(20)	
Trichloroethene	44	2.5	50	0	88	65	144	45.05	2.5(20)	
Bromodichloromethane	47	2.5	50	0	94	50	157	48.44	3.1(20)	
4-Methyl-2-pentanone (MIBK)	127	13	125	0	102	20	182	125.9	0.9(20)	
cis-1,3-Dichloropropene	37.7	2.5	50	0	75	63	131	38.25	1.4(20)	
trans-1,3-Dichloropropene	34.5	2.5	50	0	69	65	136	34.28	0.8(20)	
1,1,2-Trichloroethane	49.6	2.5	50	0	99	70	131	51.66	4.2(20)	
Toluene	45.9	1.3	50	0	92	68	130	47.56	3.5(20)	
1,3-Dichloropropane	49.5	2.5	50	0	99	70	130	50.75	2.5(20)	
2-Hexanone	336	25	500	0	67	20	182	328.6	2.4(20)	
Dibromochloromethane	43.1	2.5	50	0	86	42	155	43.87	1.7(20)	
1,2-Dibromoethane (EDB)	93.8	5	100	0	94	70	130	96.02	2.3(20)	
Tetrachloroethene	41.2	2.5	50	0	82	65	130	42.11	2.2(20)	
1,1,1,2-Tetrachloroethane	46.7	2.5	50	0	93	70	130	47.93	2.6(20)	
Chlorobenzene	46.9	2.5	50	0	94	70	130	48.22	2.8(20)	
Ethylbenzene	47.2	1.3	50	0	94	68	130	48.17	2.0(20)	
m,p-Xylene	46.8	1.3	50	0	94	68	131	47.77	2.2(20)	
Bromoform	43.9	2.5	50	0	88	65	143	44.55	1.4(20)	
Styrene	48.3	2.5	50	0	97	59	153	49.21	1.9(37)	
o-Xylene	44.1	1.3	50	0	88	70	130	45.35	2.8(20)	
1,1,2,2-Tetrachloroethane	55.4	2.5	50	0	111	67	130	55.86	0.8(20)	
1,2,3-Trichloropropane	104	10	100	0	104	70	130	105.6	1.9(20)	
Isopropylbenzene	45.8	2.5	50	0	92	55	138	46.24	1.0(20)	
Bromobenzene	45.5	2.5	50	0	91	70	130	45.82	0.7(20)	
n-Propylbenzene	45.7	2.5	50	0	91	67	133	45.93	0.5(30)	
4-Chlorotoluene	45.9	2.5	50	0	92	70	130	46.24	0.7(20)	
2-Chlorotoluene	46.4	2.5	50	0	93	70	130	46.53	0.3(20)	
1,3,5-Trimethylbenzene	46	2.5	50	0	92	67	134	46.47	1.0(21)	
tert-Butylbenzene	46.8	2.5	50	0	94	55	147	47.21	0.9(20)	
1,2,4-Trimethylbenzene	47.7	2.5	50	0	95	65	135	48.2	1.0(25)	
sec-Butylbenzene	44.6	2.5	50	0	89	68	135	44.39	0.6(20)	
1,3-Dichlorobenzene	46.8	2.5	50	0	94	70	130	46.25	1.2(20)	
1,4-Dichlorobenzene	45.7	2.5	50	0	91	70	130	45.79	0.2(20)	
4-Isopropyltoluene	46.1	2.5	50	0	92	68	132	45.88	0.6(20)	
1,2-Dichlorobenzene	46.9	2.5	50	0	94	70	130	47.08	0.5(20)	
n-Butylbenzene	46.4	2.5	50	0	93	62	134	45.4	2.2(21)	
1,2-Dibromo-3-chloropropane (DBCP)	274	15	250	0	110	64	130	267.5	2.6(20)	



Alpha Analytical, Inc.

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Date:	QC Summary Report								Work Order:
09-Nov-12									12110102
1,2,4-Trichlorobenzene	40.4	10	50	0	81	62	133	38.39	5.2(29)
Naphthalene	45.7	10	50	0	91	32	166	39.99	13.4(40)
1,2,3-Trichlorobenzene	41.4	10	50	0	83	55	138	38.49	7.4(36)
Xylenes, Total	90.9	1.3	100	0	91	70	130	93.12	2.5(20)
Surr: 1,2-Dichloroethane-d4	57.3		50		115	70	130		
Surr: Toluene-d8	49.3		50		99	70	130		
Surr: 4-Bromofluorobenzene	49.9		50		99.8	70	130		

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

L50 = Analyte recovery was below acceptance limits for the LCS, but was acceptable in the MS/MSD.

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

CA

WorkOrder : CHHL12110102
Report Due By : 5:00 PM On : 12-Nov-12

Client:
 CH2M Hill
 1000 Wilshire Boulevard
 21st Floor
 Los Angeles, CA 90017

Report Attention	Phone Number	EMail Address
Daniel Jablonski	(213) 228-8271 x	daniel.jablonski@ch2m.com
Matthew Mayry	(213) 228-8271 x	matthew.mayry@ch2m.com

EDD Required : Yes

Sampled by : James Dye

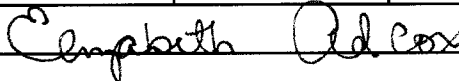
PO :
 Client's COC # : none Job : KMEP DFSP Norwalk

<u>Cooler Temp</u>	<u>Samples Received</u>	<u>Date Printed</u>
0 °C	01-Nov-12	01-Nov-12

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha Sub TAT	Requested Tests					Sample Remarks			
				TPH/E_W	TPH/P_W	VOC_W						
CHH12110102-01A	GMW-O-18	AQ 10/30/12 11:00	6 0 7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						

Comments: Security seals intact. Frozen ice. Analysts: 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:		Elizabeth Adcox	Alpha Analytical, Inc.	11-1-12 1034

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.
 The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.
 Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

CONDUCT ANALYSIS TO DETECT

LAB

Alpha Analytical COC ___ of ___

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
G-MW-0-18	10/30/12	1100	AQ	6	HCL	DM-	X	X										CHH12-110102-

SAMPLING COMPLETED DATE **10/30/12** TIME **1100** SAMPLING PERFORMED BY **JAMES DYR** RESULTS NEEDED NO LATER THAN **Standard**

RELEASED BY *[Signature]* TIME **1115** RECEIVED BY *[Signature]* DATE **10/31/12** TIME **1130**
 RELEASED BY *[Signature]* TIME **1130** RECEIVED BY **Elizabeth Adcox** DATE **11-1-12** TIME **1034**

SHIPPED VIA _____ TIME SENT _____ COOLER # _____



Alpha Analytical, Inc.

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ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135
Date Received : 10/20/12

Job: KMEP DFSP Norwalk

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID :	GMW-O-21				
Lab ID :	CHH12102202-01A	TPH-E (DRO)	0.88	0.050 mg/L	10/22/12
Date Sampled	10/19/12 15:50	Surr: Nonane	101	(49-145) %REC	10/22/12
		TPH-P (GRO)	1.2	0.20 mg/L	10/23/12
		Surr: 1,2-Dichloroethane-d4	91	(70-130) %REC	10/23/12
		Surr: Toluene-d8	102	(70-130) %REC	10/23/12
		Surr: 4-Bromofluorobenzene	102	(70-130) %REC	10/23/12
Client ID :	MW-O-1				
Lab ID :	CHH12102202-02A	TPH-E (DRO)	8.8	0.050 mg/L	10/22/12
Date Sampled	10/19/12 14:30	Surr: Nonane	0	(49-145) %REC	10/22/12
		TPH-P (GRO)	4.5	0.40 mg/L	10/23/12
		Surr: 1,2-Dichloroethane-d4	93	(70-130) %REC	10/23/12
		Surr: Toluene-d8	103	(70-130) %REC	10/23/12
		Surr: 4-Bromofluorobenzene	106	(70-130) %REC	10/23/12
Client ID :	GMW-O-20				
Lab ID :	CHH12102202-03A	TPH-E (DRO)	340	5.0 mg/L	10/22/12
Date Sampled	10/19/12 14:05	Surr: Nonane	0	(49-145) %REC	10/22/12
		TPH-P (GRO)	36	5.0 mg/L	10/23/12
		Surr: 1,2-Dichloroethane-d4	89	(70-130) %REC	10/23/12
		Surr: Toluene-d8	100	(70-130) %REC	10/23/12
		Surr: 4-Bromofluorobenzene	102	(70-130) %REC	10/23/12
Client ID :	GMW-O-12				
Lab ID :	CHH12102202-04A	TPH-E (DRO)	120	0.50 mg/L	10/22/12
Date Sampled	10/19/12 13:15	Surr: Nonane	119	(49-145) %REC	10/22/12
		TPH-P (GRO)	12	5.0 mg/L	10/23/12
		Surr: 1,2-Dichloroethane-d4	90	(70-130) %REC	10/23/12
		Surr: Toluene-d8	101	(70-130) %REC	10/23/12
		Surr: 4-Bromofluorobenzene	101	(70-130) %REC	10/23/12
Client ID :	GMW-O-23				
Lab ID :	CHH12102202-05A	TPH-E (DRO)	31	2.5 mg/L	10/22/12
Date Sampled	10/19/12 12:06	Surr: Nonane	0	(49-145) %REC	10/22/12
		TPH-P (GRO)	29	10 mg/L	10/23/12
		Surr: 1,2-Dichloroethane-d4	95	(70-130) %REC	10/23/12
		Surr: Toluene-d8	103	(70-130) %REC	10/23/12
		Surr: 4-Bromofluorobenzene	99	(70-130) %REC	10/23/12
Client ID :	GMW-O-10				
Lab ID :	CHH12102202-06A	TPH-E (DRO)	ND	0.050 mg/L	10/22/12
Date Sampled	10/19/12 11:00	Surr: Nonane	96	(49-145) %REC	10/22/12
		TPH-P (GRO)	ND	0.050 mg/L	10/23/12
		Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	10/23/12
		Surr: Toluene-d8	100	(70-130) %REC	10/23/12
		Surr: 4-Bromofluorobenzene	102	(70-130) %REC	10/23/12



Alpha Analytical, Inc.

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Client ID :	GMW-4						
Lab ID :	CHH12102202-07A	TPH-E (DRO)	8.1	K	0.050 mg/L	10/22/12	10/22/12
Date Sampled	10/19/12 10:04	Surr: Nonane	0	S51	(49-145) %REC	10/22/12	10/22/12
		TPH-P (GRO)	1.3		0.50 mg/L	10/24/12	10/24/12
		Surr: 1,2-Dichloroethane-d4	88		(70-130) %REC	10/24/12	10/24/12
		Surr: Toluene-d8	100		(70-130) %REC	10/24/12	10/24/12
		Surr: 4-Bromofluorobenzene	100		(70-130) %REC	10/24/12	10/24/12
Client ID :	MW-15						
Lab ID :	CHH12102202-08A	TPH-E (DRO)	34	K	0.050 mg/L	10/22/12	10/22/12
Date Sampled	10/19/12 08:30	Surr: Nonane	0	S51	(49-145) %REC	10/22/12	10/22/12
		TPH-P (GRO)	0.94		0.20 mg/L	10/23/12	10/23/12
		Surr: 1,2-Dichloroethane-d4	92		(70-130) %REC	10/23/12	10/23/12
		Surr: Toluene-d8	100		(70-130) %REC	10/23/12	10/23/12
		Surr: 4-Bromofluorobenzene	111		(70-130) %REC	10/23/12	10/23/12
Client ID :	GMW-10						
Lab ID :	CHH12102202-09A	TPH-E (DRO)	7.5	K	0.050 mg/L	10/22/12	10/22/12
Date Sampled	10/19/12 13:50	Surr: Nonane	0	S51	(49-145) %REC	10/22/12	10/22/12
		TPH-P (GRO)	10		1.0 mg/L	10/23/12	10/23/12
		Surr: 1,2-Dichloroethane-d4	94		(70-130) %REC	10/23/12	10/23/12
		Surr: Toluene-d8	103		(70-130) %REC	10/23/12	10/23/12
		Surr: 4-Bromofluorobenzene	103		(70-130) %REC	10/23/12	10/23/12
Client ID :	MW-SF-4						
Lab ID :	CHH12102202-10A	TPH-E (DRO)	9.9		0.050 mg/L	10/22/12	10/22/12
Date Sampled	10/19/12 14:35	Surr: Nonane	115		(49-145) %REC	10/22/12	10/22/12
		TPH-P (GRO)	8.9		2.0 mg/L	10/23/12	10/23/12
		Surr: 1,2-Dichloroethane-d4	95		(70-130) %REC	10/23/12	10/23/12
		Surr: Toluene-d8	105		(70-130) %REC	10/23/12	10/23/12
		Surr: 4-Bromofluorobenzene	105		(70-130) %REC	10/23/12	10/23/12
Client ID :	EB-2						
Lab ID :	CHH12102202-11A	TPH-E (DRO)	ND		0.050 mg/L	10/22/12	10/22/12
Date Sampled	10/19/12 14:50	Surr: Nonane	95		(49-145) %REC	10/22/12	10/22/12
		TPH-P (GRO)	ND		0.050 mg/L	10/23/12	10/23/12
		Surr: 1,2-Dichloroethane-d4	101		(70-130) %REC	10/23/12	10/23/12
		Surr: Toluene-d8	97		(70-130) %REC	10/23/12	10/23/12
		Surr: 4-Bromofluorobenzene	101		(70-130) %REC	10/23/12	10/23/12
Client ID :	EB-1						
Lab ID :	CHH12102202-12A	TPH-E (DRO)	ND		0.050 mg/L	10/22/12	10/22/12
Date Sampled	10/19/12 11:15	Surr: Nonane	95		(49-145) %REC	10/22/12	10/22/12
		TPH-P (GRO)	ND		0.050 mg/L	10/23/12	10/23/12
		Surr: 1,2-Dichloroethane-d4	102		(70-130) %REC	10/23/12	10/23/12
		Surr: Toluene-d8	98		(70-130) %REC	10/23/12	10/23/12
		Surr: 4-Bromofluorobenzene	96		(70-130) %REC	10/23/12	10/23/12
Client ID :	DUP-5						
Lab ID :	CHH12102202-14A	TPH-E (DRO)	ND		0.050 mg/L	10/22/12	10/22/12
Date Sampled	10/19/12 00:00	Surr: Nonane	95		(49-145) %REC	10/22/12	10/22/12
		TPH-P (GRO)	ND		0.050 mg/L	10/23/12	10/23/12
		Surr: 1,2-Dichloroethane-d4	98		(70-130) %REC	10/23/12	10/23/12
		Surr: Toluene-d8	99		(70-130) %REC	10/23/12	10/23/12
		Surr: 4-Bromofluorobenzene	100		(70-130) %REC	10/23/12	10/23/12



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Diesel Range Organics (DRO) C13-C22

Gasoline Range Organics (GRO) C4-C13

K = DRO concentration may include contributions from lighter-end 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.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered in any way.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

PS

10/30/12

Report Date



Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12102202-01A
Client I.D. Number: GMW-O-21

Sampled: 10/19/12 15:50
Received: 10/20/12
Extracted: 10/23/12
Analyzed: 10/23/12

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	2.0 µg/L	45 Chlorobenzene	ND	2.0 µg/L
2 Chloromethane	ND	8.0 µg/L	46 Ethylbenzene	4.8	1.0 µg/L
3 Vinyl chloride	ND	2.0 µg/L	47 m,p-Xylene	19	1.0 µg/L
4 Chloroethane	ND	2.0 µg/L	48 Bromoform	ND	2.0 µg/L
5 Bromomethane	ND	8.0 µg/L	49 Xylenes, Total	66	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	2.0 µg/L
7 Acetone	ND	40 µg/L	51 o-Xylene	47	1.0 µg/L
8 1,1-Dichloroethene	ND	2.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	96	20 µg/L	53 1,2,3-Trichloropropane	ND	8.0 µg/L
10 Dichloromethane	ND	8.0 µg/L	54 Isopropylbenzene	ND	2.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	2.0 µg/L
12 Carbon disulfide	ND	10 µg/L	56 n-Propylbenzene	ND	2.0 µg/L
13 trans-1,2-Dichloroethene	ND	2.0 µg/L	57 4-Chlorotoluene	ND	2.0 µg/L
14 Methyl tert-butyl ether (MTBE)	3.2	1.0 µg/L	58 2-Chlorotoluene	ND	2.0 µg/L
15 1,1-Dichloroethane	ND	2.0 µg/L	59 1,3,5-Trimethylbenzene	7.8	2.0 µg/L
16 Vinyl acetate	ND	200 µg/L	60 tert-Butylbenzene	ND	2.0 µg/L
17 2-Butanone (MEK)	ND	40 µg/L	61 1,2,4-Trimethylbenzene	11	2.0 µg/L
18 Di-isopropyl Ether (DIPE)	8.7	2.0 µg/L	62 sec-Butylbenzene	ND	2.0 µg/L
19 cis-1,2-Dichloroethene	ND	2.0 µg/L	63 1,3-Dichlorobenzene	ND	2.0 µg/L
20 Bromochloromethane	ND	2.0 µg/L	64 1,4-Dichlorobenzene	ND	2.0 µg/L
21 Chloroform	ND	2.0 µg/L	65 4-Isopropyltoluene	ND	2.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	2.0 µg/L	66 1,2-Dichlorobenzene	ND	2.0 µg/L
23 2,2-Dichloropropane	ND	2.0 µg/L	67 n-Butylbenzene	ND	2.0 µg/L
24 1,2-Dichloroethane	ND	2.0 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	12 µg/L
25 1,1,1-Trichloroethane	ND	2.0 µg/L	69 1,2,4-Trichlorobenzene	ND	8.0 µg/L
26 1,1-Dichloropropene	ND	2.0 µg/L	70 Naphthalene	21	10 µg/L
27 Carbon tetrachloride	ND	2.0 µg/L	71 1,2,3-Trichlorobenzene	ND	8.0 µg/L
28 Benzene	370	1.0 µg/L	72 Surr: 1,2-Dichloroethane-d4	91	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	2.0 µg/L	73 Surr: Toluene-d8	102	(70-130) %REC
30 Dibromomethane	ND	2.0 µg/L	74 Surr: 4-Bromofluorobenzene	102	(70-130) %REC
31 1,2-Dichloropropane	ND	2.0 µg/L			
32 Trichloroethene	ND	2.0 µg/L			
33 Bromodichloromethane	ND	2.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	2.0 µg/L			
36 trans-1,3-Dichloropropene	ND	2.0 µg/L			
37 1,1,2-Trichloroethane	ND	2.0 µg/L			
38 Toluene	71	1.0 µg/L			
39 1,3-Dichloropropane	ND	2.0 µg/L			
40 2-Hexanone	39	20 µg/L			
41 Dibromochloromethane	ND	2.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	4.0 µg/L			
43 Tetrachloroethene	ND	2.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	2.0 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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PS
10/30/12

Report Date

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Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12102202-02A
Client I.D. Number: MW-O-1

Sampled: 10/19/12 14:30
Received: 10/20/12
Extracted: 10/23/12
Analyzed: 10/23/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	4.0 µg/L	45 Chlorobenzene	ND	4.0 µg/L
2 Chloromethane	ND	16 µg/L	46 Ethylbenzene	94	2.0 µg/L
3 Vinyl chloride	ND	4.0 µg/L	47 m,p-Xylene	300	2.0 µg/L
4 Chloroethane	ND	4.0 µg/L	48 Bromoform	ND	4.0 µg/L
5 Bromomethane	ND	16 µg/L	49 Xylenes, Total	540	2.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	4.0 µg/L
7 Acetone	ND	80 µg/L	51 o-Xylene	240	2.0 µg/L
8 1,1-Dichloroethene	ND	4.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	4.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	59	40 µg/L	53 1,2,3-Trichloropropane	ND	16 µg/L
10 Dichloromethane	ND	16 µg/L	54 Isopropylbenzene	4.8	4.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	4.0 µg/L
12 Carbon disulfide	ND	20 µg/L	56 n-Propylbenzene	5.9	4.0 µg/L
13 trans-1,2-Dichloroethene	ND	4.0 µg/L	57 4-Chlorotoluene	ND	4.0 µg/L
14 Methyl tert-butyl ether (MTBE)	17	2.0 µg/L	58 2-Chlorotoluene	ND	4.0 µg/L
15 1,1-Dichloroethane	ND	4.0 µg/L	59 1,3,5-Trimethylbenzene	27	4.0 µg/L
16 Vinyl acetate	ND	400 µg/L	60 tert-Butylbenzene	ND	4.0 µg/L
17 2-Butanone (MEK)	ND	80 µg/L	61 1,2,4-Trimethylbenzene	140	4.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	4.0 µg/L	62 sec-Butylbenzene	ND	4.0 µg/L
19 cis-1,2-Dichloroethene	ND	4.0 µg/L	63 1,3-Dichlorobenzene	ND	4.0 µg/L
20 Bromochloromethane	ND	4.0 µg/L	64 1,4-Dichlorobenzene	ND	4.0 µg/L
21 Chloroform	ND	4.0 µg/L	65 4-Isopropyltoluene	6.5	4.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	4.0 µg/L	66 1,2-Dichlorobenzene	ND	4.0 µg/L
23 2,2-Dichloropropane	ND	4.0 µg/L	67 n-Butylbenzene	ND	4.0 µg/L
24 1,2-Dichloroethane	ND	4.0 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	24 µg/L
25 1,1,1-Trichloroethane	ND	4.0 µg/L	69 1,2,4-Trichlorobenzene	ND	16 µg/L
26 1,1-Dichloropropene	ND	4.0 µg/L	70 Naphthalene	26	16 µg/L
27 Carbon tetrachloride	ND	4.0 µg/L	71 1,2,3-Trichlorobenzene	ND	16 µg/L
28 Benzene	570	2.0 µg/L	72 Surr: 1,2-Dichloroethane-d4	93	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	4.0 µg/L	73 Surr: Toluene-d8	103	(70-130) %REC
30 Dibromomethane	ND	4.0 µg/L	74 Surr: 4-Bromofluorobenzene	106	(70-130) %REC
31 1,2-Dichloropropane	ND	4.0 µg/L			
32 Trichloroethene	ND	4.0 µg/L			
33 Bromodichloromethane	ND	4.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	20 µg/L			
35 cis-1,3-Dichloropropene	ND	4.0 µg/L			
36 trans-1,3-Dichloropropene	ND	4.0 µg/L			
37 1,1,2-Trichloroethane	ND	4.0 µg/L			
38 Toluene	160	2.0 µg/L			
39 1,3-Dichloropropane	ND	4.0 µg/L			
40 2-Hexanone	ND	40 µg/L			
41 Dibromochloromethane	ND	4.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	8.0 µg/L			
43 Tetrachloroethene	ND	4.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	4.0 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12102202-03A
Client I.D. Number: GMW-O-20

Sampled: 10/19/12 14:05
Received: 10/20/12
Extracted: 10/23/12
Analyzed: 10/23/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	50 µg/L	45 Chlorobenzene	ND	50 µg/L
2 Chloromethane	ND	200 µg/L	46 Ethylbenzene	360	25 µg/L
3 Vinyl chloride	ND	50 µg/L	47 m,p-Xylene	2,000	25 µg/L
4 Chloroethane	ND	50 µg/L	48 Bromoform	ND	50 µg/L
5 Bromomethane	ND	200 µg/L	49 Xylenes, Total	2,700	25 µg/L
6 Trichlorofluoromethane	ND	50 µg/L	50 Styrene	ND	50 µg/L
7 Acetone	ND	1,000 µg/L	51 o-Xylene	760	25 µg/L
8 1,1-Dichloroethene	ND	50 µg/L	52 1,1,2,2-Tetrachloroethane	ND	50 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	500 µg/L	53 1,2,3-Trichloropropane	ND	200 µg/L
10 Dichloromethane	ND	200 µg/L	54 Isopropylbenzene	ND	50 µg/L
11 Freon-113	ND	50 µg/L	55 Bromobenzene	ND	50 µg/L
12 Carbon disulfide	ND	250 µg/L	56 n-Propylbenzene	83	50 µg/L
13 trans-1,2-Dichloroethene	ND	50 µg/L	57 4-Chlorotoluene	ND	50 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	25 µg/L	58 2-Chlorotoluene	ND	50 µg/L
15 1,1-Dichloroethane	ND	50 µg/L	59 1,3,5-Trimethylbenzene	380	50 µg/L
16 Vinyl acetate	ND	5,000 µg/L	60 tert-Butylbenzene	ND	50 µg/L
17 2-Butanone (MEK)	ND	1,000 µg/L	61 1,2,4-Trimethylbenzene	1,200	50 µg/L
18 Di-isopropyl Ether (DIPE)	ND	50 µg/L	62 sec-Butylbenzene	ND	50 µg/L
19 cis-1,2-Dichloroethene	ND	50 µg/L	63 1,3-Dichlorobenzene	ND	50 µg/L
20 Bromochloromethane	ND	50 µg/L	64 1,4-Dichlorobenzene	ND	50 µg/L
21 Chloroform	ND	50 µg/L	65 4-Isopropyltoluene	65	50 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	50 µg/L	66 1,2-Dichlorobenzene	ND	50 µg/L
23 2,2-Dichloropropane	ND	50 µg/L	67 n-Butylbenzene	54	50 µg/L
24 1,2-Dichloroethane	ND	50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	300 µg/L
25 1,1,1-Trichloroethane	ND	50 µg/L	69 1,2,4-Trichlorobenzene	ND	200 µg/L
26 1,1-Dichloropropene	ND	50 µg/L	70 Naphthalene	760	200 µg/L
27 Carbon tetrachloride	ND	50 µg/L	71 1,2,3-Trichlorobenzene	ND	200 µg/L
28 Benzene	6,100	25 µg/L	72 Surr: 1,2-Dichloroethane-d4	89	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	50 µg/L	73 Surr: Toluene-d8	100	(70-130) %REC
30 Dibromomethane	ND	50 µg/L	74 Surr: 4-Bromofluorobenzene	102	(70-130) %REC
31 1,2-Dichloropropane	ND	50 µg/L			
32 Trichloroethene	ND	50 µg/L			
33 Bromodichloromethane	ND	50 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	250 µg/L			
35 cis-1,3-Dichloropropene	ND	50 µg/L			
36 trans-1,3-Dichloropropene	ND	50 µg/L			
37 1,1,2-Trichloroethane	ND	50 µg/L			
38 Toluene	1,000	25 µg/L			
39 1,3-Dichloropropane	ND	50 µg/L			
40 2-Hexanone	ND	500 µg/L			
41 Dibromochloromethane	ND	50 µg/L			
42 1,2-Dibromoethane (EDB)	ND	100 µg/L			
43 Tetrachloroethene	ND	50 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	50 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12102202-04A
Client I.D. Number: GMW-O-12

Sampled: 10/19/12 13:15
Received: 10/20/12
Extracted: 10/23/12
Analyzed: 10/23/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	50 µg/L	45 Chlorobenzene	ND	50 µg/L
2 Chloromethane	ND	200 µg/L	46 Ethylbenzene	ND	25 µg/L
3 Vinyl chloride	ND	50 µg/L	47 m,p-Xylene	ND	25 µg/L
4 Chloroethane	ND	50 µg/L	48 Bromoform	ND	50 µg/L
5 Bromomethane	ND	200 µg/L	49 Xylenes, Total	ND	25 µg/L
6 Trichlorofluoromethane	ND	50 µg/L	50 Styrene	ND	50 µg/L
7 Acetone	ND	1,000 µg/L	51 o-Xylene	ND	25 µg/L
8 1,1-Dichloroethene	ND	50 µg/L	52 1,1,2,2-Tetrachloroethane	ND	50 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	500 µg/L	53 1,2,3-Trichloropropane	ND	200 µg/L
10 Dichloromethane	ND	200 µg/L	54 Isopropylbenzene	ND	50 µg/L
11 Freon-113	ND	50 µg/L	55 Bromobenzene	ND	50 µg/L
12 Carbon disulfide	ND	250 µg/L	56 n-Propylbenzene	ND	50 µg/L
13 trans-1,2-Dichloroethene	ND	50 µg/L	57 4-Chlorotoluene	ND	50 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	25 µg/L	58 2-Chlorotoluene	ND	50 µg/L
15 1,1-Dichloroethane	ND	50 µg/L	59 1,3,5-Trimethylbenzene	ND	50 µg/L
16 Vinyl acetate	ND	5,000 µg/L	60 tert-Butylbenzene	ND	50 µg/L
17 2-Butanone (MEK)	ND	1,000 µg/L	61 1,2,4-Trimethylbenzene	ND	50 µg/L
18 Di-isopropyl Ether (DIPE)	ND	50 µg/L	62 sec-Butylbenzene	ND	50 µg/L
19 cis-1,2-Dichloroethene	ND	50 µg/L	63 1,3-Dichlorobenzene	ND	50 µg/L
20 Bromochloromethane	ND	50 µg/L	64 1,4-Dichlorobenzene	ND	50 µg/L
21 Chloroform	ND	50 µg/L	65 4-Isopropyltoluene	ND	50 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	50 µg/L	66 1,2-Dichlorobenzene	ND	50 µg/L
23 2,2-Dichloropropane	ND	50 µg/L	67 n-Butylbenzene	ND	50 µg/L
24 1,2-Dichloroethane	ND	50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	300 µg/L
25 1,1,1-Trichloroethane	ND	50 µg/L	69 1,2,4-Trichlorobenzene	ND	200 µg/L
26 1,1-Dichloropropene	ND	50 µg/L	70 Naphthalene	ND	200 µg/L
27 Carbon tetrachloride	ND	50 µg/L	71 1,2,3-Trichlorobenzene	ND	200 µg/L
28 Benzene	4,700	25 µg/L	72 Surr: 1,2-Dichloroethane-d4	90	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	50 µg/L	73 Surr: Toluene-d8	101	(70-130) %REC
30 Dibromomethane	ND	50 µg/L	74 Surr: 4-Bromofluorobenzene	101	(70-130) %REC
31 1,2-Dichloropropane	ND	50 µg/L			
32 Trichloroethene	ND	50 µg/L			
33 Bromodichloromethane	ND	50 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	250 µg/L			
35 cis-1,3-Dichloropropene	ND	50 µg/L			
36 trans-1,3-Dichloropropene	ND	50 µg/L			
37 1,1,2-Trichloroethane	ND	50 µg/L			
38 Toluene	ND	25 µg/L			
39 1,3-Dichloropropane	ND	50 µg/L			
40 2-Hexanone	ND	500 µg/L			
41 Dibromochloromethane	ND	50 µg/L			
42 1,2-Dibromoethane (EDB)	ND	100 µg/L			
43 Tetrachloroethene	ND	50 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	50 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMED DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12102202-05A
Client I.D. Number: GMW-O-23

Sampled: 10/19/12 12:06
Received: 10/20/12
Extracted: 10/23/12
Analyzed: 10/23/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	100 µg/L	45 Chlorobenzene	ND	100 µg/L
2 Chloromethane	ND	400 µg/L	46 Ethylbenzene	130	50 µg/L
3 Vinyl chloride	ND	100 µg/L	47 m,p-Xylene	1,100	50 µg/L
4 Chloroethane	ND	100 µg/L	48 Bromoform	ND	100 µg/L
5 Bromomethane	ND	400 µg/L	49 Xylenes, Total	1,900	50 µg/L
6 Trichlorofluoromethane	ND	100 µg/L	50 Styrene	ND	100 µg/L
7 Acetone	ND	2,000 µg/L	51 o-Xylene	810	50 µg/L
8 1,1-Dichloroethene	ND	100 µg/L	52 1,1,2,2-Tetrachloroethane	ND	100 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	1,000 µg/L	53 1,2,3-Trichloropropane	ND	400 µg/L
10 Dichloromethane	ND	400 µg/L	54 Isopropylbenzene	ND	100 µg/L
11 Freon-113	ND	100 µg/L	55 Bromobenzene	ND	100 µg/L
12 Carbon disulfide	ND	500 µg/L	56 n-Propylbenzene	ND	100 µg/L
13 trans-1,2-Dichloroethene	ND	100 µg/L	57 4-Chlorotoluene	ND	100 µg/L
14 Methyl tert-butyl ether (MTBE)	400	50 µg/L	58 2-Chlorotoluene	ND	100 µg/L
15 1,1-Dichloroethane	ND	100 µg/L	59 1,3,5-Trimethylbenzene	150	100 µg/L
16 Vinyl acetate	ND	10,000 µg/L	60 tert-Butylbenzene	ND	100 µg/L
17 2-Butanone (MEK)	ND	2,000 µg/L	61 1,2,4-Trimethylbenzene	260	100 µg/L
18 Di-isopropyl Ether (DIPE)	ND	100 µg/L	62 sec-Butylbenzene	ND	100 µg/L
19 cis-1,2-Dichloroethene	ND	100 µg/L	63 1,3-Dichlorobenzene	ND	100 µg/L
20 Bromochloromethane	ND	100 µg/L	64 1,4-Dichlorobenzene	ND	100 µg/L
21 Chloroform	ND	100 µg/L	65 4-Isopropyltoluene	ND	100 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	100 µg/L	66 1,2-Dichlorobenzene	ND	100 µg/L
23 2,2-Dichloropropane	ND	100 µg/L	67 n-Butylbenzene	ND	100 µg/L
24 1,2-Dichloroethane	ND	100 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	600 µg/L
25 1,1,1-Trichloroethane	ND	100 µg/L	69 1,2,4-Trichlorobenzene	ND	400 µg/L
26 1,1-Dichloropropene	ND	100 µg/L	70 Naphthalene	ND	400 µg/L
27 Carbon tetrachloride	ND	100 µg/L	71 1,2,3-Trichlorobenzene	ND	400 µg/L
28 Benzene	7,000	50 µg/L	72 Surr: 1,2-Dichloroethane-d4	95	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	100 µg/L	73 Surr: Toluene-d8	103	(70-130) %REC
30 Dibromomethane	ND	100 µg/L	74 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
31 1,2-Dichloropropane	ND	100 µg/L			
32 Trichloroethene	ND	100 µg/L			
33 Bromodichloromethane	ND	100 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	500 µg/L			
35 cis-1,3-Dichloropropene	ND	100 µg/L			
36 trans-1,3-Dichloropropene	ND	100 µg/L			
37 1,1,2-Trichloroethane	ND	100 µg/L			
38 Toluene	5,000	50 µg/L			
39 1,3-Dichloropropane	ND	100 µg/L			
40 2-Hexanone	ND	1,000 µg/L			
41 Dibromochloromethane	ND	100 µg/L			
42 1,2-Dibromoethane (EDB)	ND	200 µg/L			
43 Tetrachloroethene	ND	100 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	100 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

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Alpha Analytical, Inc.

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ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12102202-06A
Client I.D. Number: GMW-O-10

Sampled: 10/19/12 11:00
Received: 10/20/12
Extracted: 10/23/12
Analyzed: 10/23/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	100	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	102	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12102202-07A
Client I.D. Number: GMW-4

Sampled: 10/19/12 10:04
Received: 10/20/12
Extracted: 10/24/12
Analyzed: 10/24/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	5.0 µg/L	45 Chlorobenzene	ND	5.0 µg/L
2 Chloromethane	ND	20 µg/L	46 Ethylbenzene	ND	2.5 µg/L
3 Vinyl chloride	ND	5.0 µg/L	47 m,p-Xylene	ND	2.5 µg/L
4 Chloroethane	ND	5.0 µg/L	48 Bromoform	ND	5.0 µg/L
5 Bromomethane	ND	20 µg/L	49 Xylenes, Total	ND	2.5 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	5.0 µg/L
7 Acetone	ND	100 µg/L	51 o-Xylene	ND	2.5 µg/L
8 1,1-Dichloroethane	ND	5.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	5.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	50 µg/L	53 1,2,3-Trichloropropane	ND	20 µg/L
10 Dichloromethane	ND	20 µg/L	54 Isopropylbenzene	11	5.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	5.0 µg/L
12 Carbon disulfide	ND	25 µg/L	56 n-Propylbenzene	ND	5.0 µg/L
13 trans-1,2-Dichloroethene	ND	5.0 µg/L	57 4-Chlorotoluene	ND	5.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	2.5 µg/L	58 2-Chlorotoluene	ND	5.0 µg/L
15 1,1-Dichloroethane	ND	5.0 µg/L	59 1,3,5-Trimethylbenzene	ND	5.0 µg/L
16 Vinyl acetate	ND	500 µg/L	60 tert-Butylbenzene	ND	5.0 µg/L
17 2-Butanone (MEK)	ND	100 µg/L	61 1,2,4-Trimethylbenzene	ND	5.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	5.0 µg/L	62 sec-Butylbenzene	ND	5.0 µg/L
19 cis-1,2-Dichloroethene	ND	5.0 µg/L	63 1,3-Dichlorobenzene	ND	5.0 µg/L
20 Bromochloromethane	ND	5.0 µg/L	64 1,4-Dichlorobenzene	ND	5.0 µg/L
21 Chloroform	ND	5.0 µg/L	65 4-Isopropyltoluene	ND	5.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	5.0 µg/L	66 1,2-Dichlorobenzene	ND	5.0 µg/L
23 2,2-Dichloropropane	ND	5.0 µg/L	67 n-Butylbenzene	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	5.0 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	30 µg/L
25 1,1,1-Trichloroethane	ND	5.0 µg/L	69 1,2,4-Trichlorobenzene	ND	20 µg/L
26 1,1-Dichloropropene	ND	5.0 µg/L	70 Naphthalene	23	20 µg/L
27 Carbon tetrachloride	ND	5.0 µg/L	71 1,2,3-Trichlorobenzene	ND	20 µg/L
28 Benzene	36	2.5 µg/L	72 Surr: 1,2-Dichloroethane-d4	88	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	5.0 µg/L	73 Surr: Toluene-d8	100	(70-130) %REC
30 Dibromomethane	ND	5.0 µg/L	74 Surr: 4-Bromofluorobenzene	100	(70-130) %REC
31 1,2-Dichloropropane	ND	5.0 µg/L			
32 Trichloroethene	ND	5.0 µg/L			
33 Bromodichloromethane	ND	5.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	25 µg/L			
35 cis-1,3-Dichloropropene	ND	5.0 µg/L			
36 trans-1,3-Dichloropropene	ND	5.0 µg/L			
37 1,1,2-Trichloroethane	ND	5.0 µg/L			
38 Toluene	ND	2.5 µg/L			
39 1,3-Dichloropropane	ND	5.0 µg/L			
40 2-Hexanone	ND	50 µg/L			
41 Dibromochloromethane	ND	5.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	10 µg/L			
43 Tetrachloroethene	ND	5.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	5.0 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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[Signature]
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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12102202-08A
Client I.D. Number: MW-15

Sampled: 10/19/12 08:30
Received: 10/20/12
Extracted: 10/23/12
Analyzed: 10/23/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	2.0 µg/L	45 Chlorobenzene	ND	2.0 µg/L
2 Chloromethane	ND	8.0 µg/L	46 Ethylbenzene	ND	1.0 µg/L
3 Vinyl chloride	ND	2.0 µg/L	47 m,p-Xylene	ND	1.0 µg/L
4 Chloroethane	ND	2.0 µg/L	48 Bromoform	ND	2.0 µg/L
5 Bromomethane	ND	8.0 µg/L	49 Xylenes, Total	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	2.0 µg/L
7 Acetone	ND	40 µg/L	51 o-Xylene	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	2.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	20 µg/L	53 1,2,3-Trichloropropane	ND	8.0 µg/L
10 Dichloromethane	ND	8.0 µg/L	54 Isopropylbenzene	ND	2.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	2.0 µg/L
12 Carbon disulfide	ND	10 µg/L	56 n-Propylbenzene	ND	2.0 µg/L
13 trans-1,2-Dichloroethene	ND	2.0 µg/L	57 4-Chlorotoluene	ND	2.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	1.0 µg/L	58 2-Chlorotoluene	ND	2.0 µg/L
15 1,1-Dichloroethane	ND	2.0 µg/L	59 1,3,5-Trimethylbenzene	ND	2.0 µg/L
16 Vinyl acetate	ND	200 µg/L	60 tert-Butylbenzene	ND	2.0 µg/L
17 2-Butanone (MEK)	ND	40 µg/L	61 1,2,4-Trimethylbenzene	ND	2.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	2.0 µg/L	62 sec-Butylbenzene	ND	2.0 µg/L
19 cis-1,2-Dichloroethene	ND	2.0 µg/L	63 1,3-Dichlorobenzene	ND	2.0 µg/L
20 Bromochloromethane	ND	2.0 µg/L	64 1,4-Dichlorobenzene	ND	2.0 µg/L
21 Chloroform	ND	2.0 µg/L	65 4-Isopropyltoluene	ND	2.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	2.0 µg/L	66 1,2-Dichlorobenzene	ND	2.0 µg/L
23 2,2-Dichloropropane	ND	2.0 µg/L	67 n-Butylbenzene	ND	2.0 µg/L
24 1,2-Dichloroethane	ND	2.0 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	12 µg/L
25 1,1,1-Trichloroethane	ND	2.0 µg/L	69 1,2,4-Trichlorobenzene	ND	8.0 µg/L
26 1,1-Dichloropropene	ND	2.0 µg/L	70 Naphthalene	ND	8.0 µg/L
27 Carbon tetrachloride	ND	2.0 µg/L	71 1,2,3-Trichlorobenzene	ND	10 µg/L
28 Benzene	ND	1.0 µg/L	72 Surr: 1,2-Dichloroethane-d4	92	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	2.0 µg/L	73 Surr: Toluene-d8	100	(70-130) %REC
30 Dibromomethane	ND	2.0 µg/L	74 Surr: 4-Bromofluorobenzene	111	(70-130) %REC
31 1,2-Dichloropropane	ND	2.0 µg/L			
32 Trichloroethene	ND	2.0 µg/L			
33 Bromodichloromethane	ND	2.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	2.0 µg/L			
36 trans-1,3-Dichloropropene	ND	2.0 µg/L			
37 1,1,2-Trichloroethane	ND	2.0 µg/L			
38 Toluene	ND	1.0 µg/L			
39 1,3-Dichloropropane	ND	2.0 µg/L			
40 2-Hexanone	ND	20 µg/L			
41 Dibromochloromethane	ND	2.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	4.0 µg/L			
43 Tetrachloroethene	ND	2.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	2.0 µg/L			

Reporting Limits were increased due to sample foaming.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12102202-09A
Client I.D. Number: GMW-10

Sampled: 10/19/12 13:50
Received: 10/20/12
Extracted: 10/23/12
Analyzed: 10/23/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	10 µg/L	45 Chlorobenzene	ND	10 µg/L
2 Chloromethane	ND	40 µg/L	46 Ethylbenzene	270	5.0 µg/L
3 Vinyl chloride	ND	10 µg/L	47 m,p-Xylene	1,100	5.0 µg/L
4 Chloroethane	ND	10 µg/L	48 Bromoform	ND	10 µg/L
5 Bromomethane	ND	40 µg/L	49 Xylenes, Total	1,400	5.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	10 µg/L
7 Acetone	ND	200 µg/L	51 o-Xylene	360	5.0 µg/L
8 1,1-Dichloroethene	ND	10 µg/L	52 1,1,2,2-Tetrachloroethane	ND	10 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	100 µg/L	53 1,2,3-Trichloropropane	ND	40 µg/L
10 Dichloromethane	ND	40 µg/L	54 Isopropylbenzene	24	10 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	10 µg/L
12 Carbon disulfide	ND	50 µg/L	56 n-Propylbenzene	16	10 µg/L
13 trans-1,2-Dichloroethene	ND	10 µg/L	57 4-Chlorotoluene	ND	10 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	5.0 µg/L	58 2-Chlorotoluene	ND	10 µg/L
15 1,1-Dichloroethane	ND	10 µg/L	59 1,3,5-Trimethylbenzene	90	10 µg/L
16 Vinyl acetate	ND	1,000 µg/L	60 tert-Butylbenzene	ND	10 µg/L
17 2-Butanone (MEK)	ND	200 µg/L	61 1,2,4-Trimethylbenzene	230	10 µg/L
18 Di-isopropyl Ether (DIPE)	ND	10 µg/L	62 sec-Butylbenzene	ND	10 µg/L
19 cis-1,2-Dichloroethene	ND	10 µg/L	63 1,3-Dichlorobenzene	ND	10 µg/L
20 Bromochloromethane	ND	10 µg/L	64 1,4-Dichlorobenzene	ND	10 µg/L
21 Chloroform	ND	10 µg/L	65 4-Isopropyltoluene	ND	10 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	10 µg/L	66 1,2-Dichlorobenzene	ND	10 µg/L
23 2,2-Dichloropropane	ND	10 µg/L	67 n-Butylbenzene	ND	10 µg/L
24 1,2-Dichloroethane	ND	10 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	60 µg/L
25 1,1,1-Trichloroethane	ND	10 µg/L	69 1,2,4-Trichlorobenzene	ND	40 µg/L
26 1,1-Dichloropropene	ND	10 µg/L	70 Naphthalene	290	40 µg/L
27 Carbon tetrachloride	ND	10 µg/L	71 1,2,3-Trichlorobenzene	ND	40 µg/L
28 Benzene	1,300	5.0 µg/L	72 Surr: 1,2-Dichloroethane-d4	94	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	10 µg/L	73 Surr: Toluene-d8	103	(70-130) %REC
30 Dibromomethane	ND	10 µg/L	74 Surr: 4-Bromofluorobenzene	103	(70-130) %REC
31 1,2-Dichloropropane	ND	10 µg/L			
32 Trichloroethene	ND	10 µg/L			
33 Bromodichloromethane	ND	10 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	50 µg/L			
35 cis-1,3-Dichloropropene	ND	10 µg/L			
36 trans-1,3-Dichloropropene	ND	10 µg/L			
37 1,1,2-Trichloroethane	ND	10 µg/L			
38 Toluene	380	5.0 µg/L			
39 1,3-Dichloropropane	ND	10 µg/L			
40 2-Hexanone	ND	100 µg/L			
41 Dibromochloromethane	ND	10 µg/L			
42 1,2-Dibromoethane (EDB)	ND	20 µg/L			
43 Tetrachloroethene	ND	10 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	10 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12102202-10A
Client I.D. Number: MW-SF-4

Sampled: 10/19/12 14:35
Received: 10/20/12
Extracted: 10/23/12
Analyzed: 10/23/12

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	20 µg/L	45 Chlorobenzene	ND	20 µg/L
2 Chloromethane	ND	80 µg/L	46 Ethylbenzene	280	10 µg/L
3 Vinyl chloride	ND	20 µg/L	47 m,p-Xylene	360	10 µg/L
4 Chloroethane	ND	20 µg/L	48 Bromoform	ND	20 µg/L
5 Bromomethane	ND	80 µg/L	49 Xylenes, Total	420	10 µg/L
6 Trichlorofluoromethane	ND	20 µg/L	50 Styrene	ND	20 µg/L
7 Acetone	ND	400 µg/L	51 o-Xylene	53	10 µg/L
8 1,1-Dichloroethene	ND	20 µg/L	52 1,1,2,2-Tetrachloroethane	ND	20 µg/L
9 Tertiary Butyl Alcohol (TBA)	410	200 µg/L	53 1,2,3-Trichloropropane	ND	80 µg/L
10 Dichloromethane	ND	80 µg/L	54 Isopropylbenzene	ND	20 µg/L
11 Freon-113	ND	20 µg/L	55 Bromobenzene	ND	20 µg/L
12 Carbon disulfide	ND	100 µg/L	56 n-Propylbenzene	26	20 µg/L
13 trans-1,2-Dichloroethene	ND	20 µg/L	57 4-Chlorotoluene	ND	20 µg/L
14 Methyl tert-butyl ether (MTBE)	160	10 µg/L	58 2-Chlorotoluene	ND	20 µg/L
15 1,1-Dichloroethane	ND	20 µg/L	59 1,3,5-Trimethylbenzene	59	20 µg/L
16 Vinyl acetate	ND	2,000 µg/L	60 tert-Butylbenzene	ND	20 µg/L
17 2-Butanone (MEK)	ND	400 µg/L	61 1,2,4-Trimethylbenzene	140	20 µg/L
18 Di-isopropyl Ether (DIPE)	ND	20 µg/L	62 sec-Butylbenzene	ND	20 µg/L
19 cis-1,2-Dichloroethene	ND	20 µg/L	63 1,3-Dichlorobenzene	ND	20 µg/L
20 Bromochloromethane	ND	20 µg/L	64 1,4-Dichlorobenzene	ND	20 µg/L
21 Chloroform	ND	20 µg/L	65 4-Isopropyltoluene	ND	20 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/L	66 1,2-Dichlorobenzene	ND	20 µg/L
23 2,2-Dichloropropane	ND	20 µg/L	67 n-Butylbenzene	ND	20 µg/L
24 1,2-Dichloroethane	ND	20 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	120 µg/L
25 1,1,1-Trichloroethane	ND	20 µg/L	69 1,2,4-Trichlorobenzene	ND	80 µg/L
26 1,1-Dichloropropene	ND	20 µg/L	70 Naphthalene	ND	80 µg/L
27 Carbon tetrachloride	ND	20 µg/L	71 1,2,3-Trichlorobenzene	ND	80 µg/L
28 Benzene	2,200	10 µg/L	72 Surr: 1,2-Dichloroethane-d4	95	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/L	73 Surr: Toluene-d8	105	(70-130) %REC
30 Dibromomethane	ND	20 µg/L	74 Surr: 4-Bromofluorobenzene	105	(70-130) %REC
31 1,2-Dichloropropane	ND	20 µg/L			
32 Trichloroethene	ND	20 µg/L			
33 Bromodichloromethane	ND	20 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	100 µg/L			
35 cis-1,3-Dichloropropene	ND	20 µg/L			
36 trans-1,3-Dichloropropene	ND	20 µg/L			
37 1,1,2-Trichloroethane	ND	20 µg/L			
38 Toluene	40	10 µg/L			
39 1,3-Dichloropropane	ND	20 µg/L			
40 2-Hexanone	ND	200 µg/L			
41 Dibromochloromethane	ND	20 µg/L			
42 1,2-Dibromoethane (EDB)	ND	40 µg/L			
43 Tetrachloroethene	ND	20 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	20 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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[Signature]

10/30/12

Report Date

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12102202-11A
Client I.D. Number: EB-2

Sampled: 10/19/12 14:50
Received: 10/20/12
Extracted: 10/23/12
Analyzed: 10/23/12

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	97	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	101	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinclman

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12102202-12A
Client I.D. Number: EB-1

Sampled: 10/19/12 11:15
Received: 10/20/12
Extracted: 10/23/12
Analyzed: 10/23/12

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	98	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	96	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12102202-13A
Client I.D. Number: TB-1

Sampled: 10/19/12 08:00
Received: 10/20/12
Extracted: 10/23/12
Analyzed: 10/23/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	96	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	98	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

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Walter Hinchman

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Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12102202-14A
Client I.D. Number: DUP-5

Sampled: 10/19/12 00:00
Received: 10/20/12
Extracted: 10/23/12
Analyzed: 10/23/12

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	98	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	100	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

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Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered in any way.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

[Signature]

10/30/12

Report Date

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

VOC Sample Preservation Report

Work Order: CHH12102202

Job: KMEP DFSP Norwalk

Alpha's Sample ID	Client's Sample ID	Matrix	pH
12102202-01A	GMW-O-21	Aqueous	6
12102202-02A	MW-O-1	Aqueous	6
12102202-03A	GMW-O-20	Aqueous	6
12102202-04A	GMW-O-12	Aqueous	6
12102202-05A	GMW-O-23	Aqueous	6
12102202-06A	GMW-O-10	Aqueous	2
12102202-07A	GMW-4	Aqueous	4
12102202-08A	MW-15	Aqueous	2
12102202-09A	GMW-10	Aqueous	6
12102202-10A	MW-SF-4	Aqueous	2
12102202-11A	EB-2	Aqueous	2
12102202-12A	EB-1	Aqueous	2
12102202-13A	TB-1	Aqueous	2
12102202-14A	DUP-5	Aqueous	2

10/30/12

Report Date

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Alpha Analytical, Inc.

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Date:
26-Oct-12

QC Summary Report

Work Order:
12102202

Method Blank

Type MBLK Test Code: EPA Method SW8015B/C Ext

File ID: 7A10191280.D

Batch ID: 29726

Analysis Date: 10/22/2012 14:00

Sample ID: MBLK-29726

Units : mg/L

Run ID: FID_7_121022A

Prep Date: 10/22/2012 11:05

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	ND	0.05								
Surr: Nonane	0.155		0.15		103	49	145			

Laboratory Control Spike

Type LCS Test Code: EPA Method SW8015B/C Ext

File ID: 7A10191281.D

Batch ID: 29726

Analysis Date: 10/22/2012 14:27

Sample ID: LCS-29726

Units : mg/L

Run ID: FID_7_121022A

Prep Date: 10/22/2012 11:05

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.37	0.05	2.5		95	70	130			
Surr: Nonane	0.157		0.15		105	49	145			

Sample Matrix Spike

Type MS Test Code: EPA Method SW8015B/C Ext

File ID: 7A10191284.D

Batch ID: 29726

Analysis Date: 10/22/2012 15:48

Sample ID: 12102202-02AMS

Units : mg/L

Run ID: FID_7_121022A

Prep Date: 10/22/2012 11:05

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	14.6	0.05	5	8.82	116	53	150			
Surr: Nonane	0		0.15		0	49	145			S51

Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method SW8015B/C Ext

File ID: 7A10191285.D

Batch ID: 29726

Analysis Date: 10/22/2012 16:14

Sample ID: 12102202-02AMSD

Units : mg/L

Run ID: FID_7_121022A

Prep Date: 10/22/2012 11:05

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	12.3	0.05	5	8.82	70	53	150	14.64	17.3(47)	
Surr: Nonane	0.138		0.15		92	49	145			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

S51 = Surrogate recovery could not be determined due to the presence of co-eluting hydrocarbons.



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Date:
26-Oct-12

QC Summary Report

Work Order:
12102202

Method Blank

Type MBLK Test Code: EPA Method SW8015B/C

File ID: C:\HPCHEM\MS10\DATA\121023\12102305.D

Batch ID: MS10W1023B

Analysis Date: 10/23/2012 13:02

Sample ID: MBLK MS10W1023B

Units: mg/L

Run ID: MSD_10_121023A

Prep Date: 10/23/2012 13:02

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	0.05								
Surr: 1,2-Dichloroethane-d4	0.00971		0.01		97	70	130			
Surr: Toluene-d8	0.00969		0.01		97	70	130			
Surr: 4-Bromofluorobenzene	0.00983		0.01		98	70	130			

Laboratory Control Spike

Type LCS Test Code: EPA Method SW8015B/C

File ID: C:\HPCHEM\MS10\DATA\121023\12102303.D

Batch ID: MS10W1023B

Analysis Date: 10/23/2012 12:16

Sample ID: GLCS MS10W1023B

Units: mg/L

Run ID: MSD_10_121023A

Prep Date: 10/23/2012 12:16

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.419	0.05	0.4		105	70	130			
Surr: 1,2-Dichloroethane-d4	0.00997		0.01		99.7	70	130			
Surr: Toluene-d8	0.0098		0.01		98	70	130			
Surr: 4-Bromofluorobenzene	0.0104		0.01		104	70	130			

Sample Matrix Spike

Type MS Test Code: EPA Method SW8015B/C

File ID: C:\HPCHEM\MS10\DATA\121023\12102314.D

Batch ID: MS10W1023B

Analysis Date: 10/23/2012 16:15

Sample ID: 12102202-06AGS

Units: mg/L

Run ID: MSD_10_121023A

Prep Date: 10/23/2012 16:15

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.64	0.25	2	0	82	51	144			
Surr: 1,2-Dichloroethane-d4	0.0527		0.05		105	70	130			
Surr: Toluene-d8	0.0502		0.05		100	70	130			
Surr: 4-Bromofluorobenzene	0.0534		0.05		107	70	130			

Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method SW8015B/C

File ID: C:\HPCHEM\MS10\DATA\121023\12102315.D

Batch ID: MS10W1023B

Analysis Date: 10/23/2012 16:36

Sample ID: 12102202-06AGSD

Units: mg/L

Run ID: MSD_10_121023A

Prep Date: 10/23/2012 16:36

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.87	0.25	2	0	93	51	144	1.637	13.0(29)	
Surr: 1,2-Dichloroethane-d4	0.0493		0.05		99	70	130			
Surr: Toluene-d8	0.05		0.05		100	70	130			
Surr: 4-Bromofluorobenzene	0.0535		0.05		107	70	130			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:

26-Oct-12

QC Summary Report

Work Order:

12102202

n-Butylbenzene	ND	1				
1,2-Dibromo-3-chloropropane (DBCP)	ND	5				
1,2,4-Trichlorobenzene	ND	2				
Naphthalene	ND	10				
1,2,3-Trichlorobenzene	ND	2				
Xylenes, Total	ND	0.5				
Surr: 1,2-Dichloroethane-d4	9.71		10	97	70	130
Surr: Toluene-d8	9.69		10	97	70	130
Surr: 4-Bromofluorobenzene	9.83		10	98	70	130



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Date:
26-Oct-12

QC Summary Report

Work Order:
12102202

Laboratory Control Spike

Type LCS

Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\121023\12102302.D

Batch ID: MS10W1023A

Analysis Date: 10/23/2012 11:55

Sample ID: LCS MS10W1023A

Units: µg/L

Run ID: MSD_10_121023A

Prep Date: 10/23/2012 11:55

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	8.9	1	10		89	37	137			
Chloromethane	12.2	2	10		122	43	140			
Vinyl chloride	8.85	1	10		89	80	120			
Chloroethane	9.83	1	10		98	43	141			
Bromomethane	11.2	2	10		112	11	160			
Trichlorofluoromethane	8.72	1	10		87	40	148			
Acetone	207	10	200		104	36	171			
1,1-Dichloroethene	10.2	1	10		102	80	120			
Tertiary Butyl Alcohol (TBA)	90.5	10	100		91	44	156			
Dichloromethane	9.98	2	10		99.8	69	130			
Freon-113	10.2	1	10		102	70	137			
trans-1,2-Dichloroethene	10.5	1	10		105	70	130			
Methyl tert-butyl ether (MTBE)	8.17	0.5	10		82	65	140			
1,1-Dichloroethane	9.8	1	10		98	70	130			
2-Butanone (MEK)	188	10	200		94	23	182			
Di-isopropyl Ether (DIPE)	10.2	1	10		102	70	130			
cis-1,2-Dichloroethene	10.5	1	10		105	70	130			
Bromochloromethane	10.1	1	10		101	70	132			
Chloroform	9.67	1	10		97	80	120			
Ethyl Tertiary Butyl Ether (ETBE)	9.13	1	10		91	65	139			
2,2-Dichloropropane	10.4	1	10		104	68	154			
1,2-Dichloroethane	7.97	1	10		80	70	132			
1,1,1-Trichloroethane	9.44	1	10		94	70	135			
1,1-Dichloropropene	10.3	1	10		103	70	130			
Carbon tetrachloride	9.23	1	10		92	61	148			
Benzene	9.8	0.5	10		98	70	130			
Tertiary Amyl Methyl Ether (TAME)	8.42	1	10		84	68	134			
Dibromomethane	9.47	1	10		95	70	130			
1,2-Dichloropropane	8.87	1	10		89	80	120			
Trichloroethene	10	1	10		100	65	144			
Bromodichloromethane	9.82	1	10		98	50	157			
4-Methyl-2-pentanone (MIBK)	22.8	2.5	25		91	20	182			
cis-1,3-Dichloropropene	9.81	1	10		98	70	131			
trans-1,3-Dichloropropene	9.75	1	10		98	70	136			
1,1,2-Trichloroethane	10.6	1	10		106	70	130			
Toluene	10.2	0.5	10		102	80	120			
1,3-Dichloropropane	9.36	1	10		94	70	130			
2-Hexanone	117	5	100		117	20	182			
Dibromochloromethane	9.81	1	10		98	42	155			
1,2-Dibromoethane (EDB)	19	2	20		95	70	130			
Tetrachloroethene	10.4	1	10		104	70	130			
1,1,1,2-Tetrachloroethane	9.65	1	10		97	70	130			
Chlorobenzene	11.2	1	10		112	70	130			
Ethylbenzene	10.7	0.5	10		107	80	120			
m,p-Xylene	10.5	0.5	10		105	70	130			
Bromoform	9.76	1	10		98	68	143			
Styrene	11.6	1	10		116	64	153			
o-Xylene	10.6	0.5	10		106	70	130			
1,1,2,2-Tetrachloroethane	10.6	1	10		106	70	130			
1,2,3-Trichloropropane	19.1	2	20		96	70	130			
Isopropylbenzene	10.6	1	10		106	68	138			
Bromobenzene	10.4	1	10		104	70	130			
n-Propylbenzene	11.1	1	10		111	70	133			
4-Chlorotoluene	10.4	1	10		104	70	130			
2-Chlorotoluene	10.6	1	10		106	70	130			
1,3,5-Trimethylbenzene	10.3	1	10		103	70	134			
tert-Butylbenzene	10.6	1	10		106	55	147			
1,2,4-Trimethylbenzene	10.1	1	10		101	70	134			
sec-Butylbenzene	11	1	10		110	70	135			
1,3-Dichlorobenzene	10.3	1	10		103	70	130			
1,4-Dichlorobenzene	10	1	10		100	70	130			
4-Isopropyltoluene	10.7	1	10		107	70	132			
1,2-Dichlorobenzene	10.1	1	10		101	70	130			
n-Butylbenzene	11.2	1	10		112	70	134			
1,2-Dibromo-3-chloropropane (DBCP)	47.5	3	50		95	67	130			



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Date:

26-Oct-12

QC Summary Report

Work Order:

12102202

1,2,4-Trichlorobenzene	8.49	2	10	85	67	132
Naphthalene	7.96	2	10	80	38	154
1,2,3-Trichlorobenzene	8.15	2	10	82	56	137
Xylenes, Total	21.2	0.5	20	106	70	130
Surr: 1,2-Dichloroethane-d4	12.1		10	121	70	130
Surr: Toluene-d8	9.94		10	99	70	130
Surr: 4-Bromofluorobenzene	10.3		10	103	70	130



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Date:
26-Oct-12

QC Summary Report

Work Order:
12102202

Sample Matrix Spike

Type MS

Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\121023\12102312.D

Batch ID: MS10W1023A

Analysis Date: 10/23/2012 15:32

Sample ID: 12102202-06AMS

Units: µg/L

Run ID: MSD_10_121023A

Prep Date: 10/23/2012 15:32

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	45.1	2.5	50	0	90	21	138			
Chloromethane	56.9	10	50	0	114	23	144			
Vinyl chloride	41.5	2.5	50	0	83	49	136			
Chloroethane	42.3	2.5	50	0	85	21	159			
Bromomethane	43.9	10	50	0	88	10	174			
Trichlorofluoromethane	41.7	2.5	50	0	83	32	154			
Acetone	914	50	1000	0	91	10	171			
1,1-Dichloroethene	46.1	2.5	50	0	92	64	130			
Tertiary Butyl Alcohol (TBA)	478	25	500	0	96	41	157			
Dichloromethane	46.3	10	50	0	93	69	130			
Freon-113	43.9	2.5	50	0	88	55	141			
trans-1,2-Dichloroethene	46.6	2.5	50	0	93	63	130			
Methyl tert-butyl ether (MTBE)	37	1.3	50	0	74	47	150			
1,1-Dichloroethane	43.9	2.5	50	0	88	66	130			
2-Butanone (MEK)	866	50	1000	0	87	23	182			
Di-isopropyl Ether (DIPE)	46.8	2.5	50	0	94	59	139			
cis-1,2-Dichloroethene	46.6	2.5	50	0	93	70	130			
Bromochloromethane	45.3	2.5	50	0	91	70	132			
Chloroform	43.3	2.5	50	0	87	70	130			
Ethyl Tertiary Butyl Ether (ETBE)	41.9	2.5	50	0	84	59	182			
2,2-Dichloropropane	43.1	2.5	50	0	86	38	154			
1,2-Dichloroethane	36.3	2.5	50	0	73	65	134			
1,1,1-Trichloroethane	41.9	2.5	50	0	84	65	136			
1,1-Dichloropropene	45.2	2.5	50	0	90	68	132			
Carbon tetrachloride	40.3	2.5	50	0	81	58	148			
Benzene	42.9	1.3	50	0	86	59	138			
Tertiary Amyl Methyl Ether (TAME)	38.8	2.5	50	0	78	63	135			
Dibromomethane	43	2.5	50	0	86	70	130			
1,2-Dichloropropane	38.9	2.5	50	0	78	70	131			
Trichloroethene	44	2.5	50	0	88	65	144			
Bromodichloromethane	44.1	2.5	50	0	88	50	157			
4-Methyl-2-pentanone (MIBK)	114	13	125	0	91	20	182			
cis-1,3-Dichloropropene	39.9	2.5	50	0	80	63	131			
trans-1,3-Dichloropropene	42.1	2.5	50	0	84	65	136			
1,1,2-Trichloroethane	47.5	2.5	50	0	95	70	131			
Toluene	43	1.3	50	0	86	68	130			
1,3-Dichloropropane	41.7	2.5	50	0	83	70	130			
2-Hexanone	399	25	500	0	80	20	182			
Dibromochloromethane	43.4	2.5	50	0	87	42	155			
1,2-Dibromoethane (EDB)	85	5	100	0	85	70	130			
Tetrachloroethene	43.8	2.5	50	0	88	65	130			
1,1,1,2-Tetrachloroethane	42.4	2.5	50	0	85	70	130			
Chlorobenzene	48.3	2.5	50	0	97	70	130			
Ethylbenzene	45.2	1.3	50	0	90	68	130			
m,p-Xylene	44.3	1.3	50	0	89	68	131			
Bromoform	42.7	2.5	50	0	85	65	143			
Styrene	50.5	2.5	50	0	101	59	153			
o-Xylene	45.6	1.3	50	0	91	70	130			
1,1,2,2-Tetrachloroethane	49.2	2.5	50	0	98	67	130			
1,2,3-Trichloropropane	87.5	10	100	0	87	70	130			
Isopropylbenzene	45.5	2.5	50	0	91	55	138			
Bromobenzene	45.4	2.5	50	0	91	70	130			
n-Propylbenzene	46.8	2.5	50	0	94	67	133			
4-Chlorotoluene	44.9	2.5	50	0	90	70	130			
2-Chlorotoluene	45.4	2.5	50	0	91	70	130			
1,3,5-Trimethylbenzene	43.4	2.5	50	0	87	67	134			
tert-Butylbenzene	45.2	2.5	50	0	90	55	147			
1,2,4-Trimethylbenzene	43.3	2.5	50	0	87	65	135			
sec-Butylbenzene	46.3	2.5	50	0	93	68	135			
1,3-Dichlorobenzene	44	2.5	50	0	88	70	130			
1,4-Dichlorobenzene	43	2.5	50	0	86	70	130			
4-Isopropyltoluene	44.8	2.5	50	0	90	68	132			
1,2-Dichlorobenzene	43.6	2.5	50	0	87	70	130			
n-Butylbenzene	46.5	2.5	50	0	93	62	134			
1,2-Dibromo-3-chloropropane (DBCP)	209	15	250	0	84	64	130			



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Work Order:

12102202

1,2,4-Trichlorobenzene	36.9	10	50	0	74	62	133
Naphthalene	37.3	10	50	0	75	32	166
1,2,3-Trichlorobenzene	35.4	10	50	0	71	55	138
Xylenes, Total	89.9	1.3	100	0	90	70	130
Surr: 1,2-Dichloroethane-d4	60.2		50		120	70	130
Surr: Toluene-d8	48		50		96	70	130
Surr: 4-Bromofluorobenzene	50.9		50		102	70	130



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Date:
26-Oct-12

QC Summary Report

Work Order:
12102202

Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\121023\12102313.D

Batch ID: MS10W1023A

Analysis Date: 10/23/2012 15:53

Sample ID: 12102202-06AMSD

Units: µg/L

Run ID: MSD_10_121023A

Prep Date: 10/23/2012 15:53

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	40.3	2.5	50	0	81	21	138	45.14	11.2(33)	
Chloromethane	51.9	10	50	0	104	23	144	56.87	9.2(27)	
Vinyl chloride	39.7	2.5	50	0	79	49	136	41.48	4.4(21)	
Chloroethane	39.4	2.5	50	0	79	21	159	42.33	7.2(40)	
Bromomethane	45.4	10	50	0	91	10	174	43.87	3.3(40)	
Trichlorofluoromethane	37.6	2.5	50	0	75	32	154	41.67	10.2(37)	
Acetone	864	50	1000	0	86	10	171	914.1	5.6(23)	
1,1-Dichloroethene	41.8	2.5	50	0	84	64	130	46.06	9.8(21)	
Tertiary Butyl Alcohol (TBA)	403	25	500	0	81	41	157	478.1	16.9(30)	
Dichloromethane	42.1	10	50	0	84	69	130	46.33	9.5(20)	
Freon-113	40.4	2.5	50	0	81	55	141	43.91	8.4(40)	
trans-1,2-Dichloroethene	43.2	2.5	50	0	86	63	130	46.58	7.5(20)	
Methyl tert-butyl ether (MTBE)	33.8	1.3	50	0	68	47	150	36.97	9.1(40)	
1,1-Dichloroethane	39.7	2.5	50	0	79	66	130	43.9	10.0(20)	
2-Butanone (MEK)	801	50	1000	0	80	23	182	866	7.8(22)	
Di-isopropyl Ether (DIPE)	42.8	2.5	50	0	86	59	139	46.83	9.0(20)	
cis-1,2-Dichloroethene	43.1	2.5	50	0	86	70	130	46.64	8.0(20)	
Bromochloromethane	40.2	2.5	50	0	80	70	132	45.28	11.8(20)	
Chloroform	39.2	2.5	50	0	78	70	130	43.33	10.1(20)	
Ethyl Tertiary Butyl Ether (ETBE)	38.3	2.5	50	0	77	59	182	41.88	9.0(40)	
2,2-Dichloropropane	39.1	2.5	50	0	78	38	154	43.06	9.7(22)	
1,2-Dichloroethane	32.1	2.5	50	0	64	65	134	36.34	12.4(20)	M2
1,1,1-Trichloroethane	38.3	2.5	50	0	77	65	136	41.86	8.9(20)	
1,1-Dichloropropene	41.1	2.5	50	0	82	68	132	45.23	9.5(20)	
Carbon tetrachloride	37	2.5	50	0	74	58	148	40.28	8.5(20)	
Benzene	39.1	1.3	50	0	78	59	138	42.94	9.5(21)	
Tertiary Amyl Methyl Ether (TAME)	35.1	2.5	50	0	70	63	135	38.8	10.0(40)	
Dibromomethane	40.1	2.5	50	0	80	70	130	43.01	7.1(20)	
1,2-Dichloropropane	35.4	2.5	50	0	71	70	131	38.86	9.4(20)	
Trichloroethene	40.1	2.5	50	0	80	65	144	43.97	9.2(20)	
Bromodichloromethane	39.9	2.5	50	0	80	50	157	44.08	10.1(20)	
4-Methyl-2-pentanone (MIBK)	102	13	125	0	82	20	182	114	11.1(20)	
cis-1,3-Dichloropropene	36.5	2.5	50	0	73	63	131	39.89	8.8(20)	
trans-1,3-Dichloropropene	38.9	2.5	50	0	78	65	136	42.12	7.9(20)	
1,1,2-Trichloroethane	42.7	2.5	50	0	85	70	131	47.45	10.5(20)	
Toluene	40.2	1.3	50	0	80	68	130	43.03	6.8(20)	
1,3-Dichloropropane	39.1	2.5	50	0	78	70	130	41.65	6.3(20)	
2-Hexanone	380	25	500	0	76	20	182	399.3	4.9(20)	
Dibromochloromethane	40.3	2.5	50	0	81	42	155	43.43	7.5(20)	
1,2-Dibromoethane (EDB)	79.8	5	100	0	80	70	130	84.95	6.3(20)	
Tetrachloroethene	40.9	2.5	50	0	82	65	130	43.8	6.9(20)	
1,1,1,2-Tetrachloroethane	39.9	2.5	50	0	80	70	130	42.43	6.3(20)	
Chlorobenzene	45.2	2.5	50	0	90	70	130	48.34	6.8(20)	
Ethylbenzene	41.8	1.3	50	0	84	68	130	45.16	7.8(20)	
m,p-Xylene	41	1.3	50	0	82	68	131	44.3	7.8(20)	
Bromoform	40.4	2.5	50	0	81	65	143	42.66	5.5(20)	
Styrene	46.4	2.5	50	0	93	59	153	50.45	8.3(37)	
o-Xylene	41.9	1.3	50	0	84	70	130	45.64	8.5(20)	
1,1,2,2-Tetrachloroethane	45.6	2.5	50	0	91	67	130	49.22	7.6(20)	
1,2,3-Trichloropropane	79.9	10	100	0	80	70	130	87.48	9.1(20)	
Isopropylbenzene	42.4	2.5	50	0	85	55	138	45.46	7.0(20)	
Bromobenzene	42.5	2.5	50	0	85	70	130	45.42	6.6(20)	
n-Propylbenzene	43.9	2.5	50	0	88	67	133	46.83	6.4(30)	
4-Chlorotoluene	41.8	2.5	50	0	84	70	130	44.87	7.0(20)	
2-Chlorotoluene	42	2.5	50	0	84	70	130	45.43	7.8(20)	
1,3,5-Trimethylbenzene	40.5	2.5	50	0	81	67	134	43.41	6.8(21)	
tert-Butylbenzene	41.8	2.5	50	0	84	55	147	45.21	7.9(20)	
1,2,4-Trimethylbenzene	40.2	2.5	50	0	80	65	135	43.26	7.4(25)	
sec-Butylbenzene	43.2	2.5	50	0	86	68	135	46.27	6.8(20)	
1,3-Dichlorobenzene	41.8	2.5	50	0	84	70	130	43.98	5.2(20)	
1,4-Dichlorobenzene	40.3	2.5	50	0	81	70	130	42.97	6.5(20)	
4-Isopropyltoluene	41.9	2.5	50	0	84	68	132	44.78	6.7(20)	
1,2-Dichlorobenzene	40.6	2.5	50	0	81	70	130	43.57	7.0(20)	
n-Butylbenzene	43.1	2.5	50	0	86	62	134	46.51	7.5(21)	
1,2-Dibromo-3-chloropropane (DBCP)	199	15	250	0	80	64	130	209	4.7(20)	



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: 26-Oct-12 **QC Summary Report** **Work Order:** 12102202

1,2,4-Trichlorobenzene	35.7	10	50	0	71	62	133	36.91	3.2(29)
Naphthalene	35.8	10	50	0	72	32	166	37.3	4.2(40)
1,2,3-Trichlorobenzene	34.6	10	50	0	69	55	138	35.4	2.2(36)
Xylenes, Total	82.9	1.3	100	0	83	70	130	89.94	8.2(20)
Surr: 1,2-Dichloroethane-d4	57.7		50		115	70	130		
Surr: Toluene-d8	49.2		50		98	70	130		
Surr: 4-Bromofluorobenzene	52.7		50		105	70	130		

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M2 = Matrix spike recovery was low, the method control sample recovery was acceptable.

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

CA

WorkOrder : CHHL12102202
Report Due By : 5:00 PM On : 31-Oct-12

Client:
 CH2M Hill
 1000 Wilshire Boulevard
 21st Floor
 Los Angeles, CA 90017

Report Attention	Phone Number	EMail Address
Daniel Jablonski	(213) 228-8271 x	daniel.jablonski@ch2m.com
Matthew Mayry	(213) 228-8271 x	matthew.mayry@ch2m.com

EDD Required : Yes

Sampled by : Eric Randall

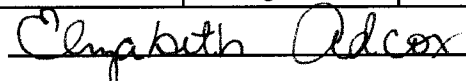
PO :
 Client's COC # : none Job : KMEP DFSP Norwalk

Cooler Temp	Samples Received	Date Printed
1 °C	20-Oct-12	22-Oct-12

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Date	Alpha	Sub	TAT	Requested Tests						Sample Remarks		
							TPHE_W	TPH/P_W	VOC_W						
CHH12102202-01A	GMW-O-21	AQ	10/19/12 15:50	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						1 HCl voa has a sample ID of GMW-O-19 matched up by sample time and logged in per COC.
CHH12102202-02A	MW-O-1	AQ	10/19/12 14:30	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12102202-03A	GMW-O-20	AQ	10/19/12 14:05	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12102202-04A	GMW-O-12	AQ	10/19/12 13:15	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12102202-05A	GMW-O-23	AQ	10/19/12 12:06	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12102202-06A	GMW-O-10	AQ	10/19/12 11:00	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12102202-07A	GMW-4	AQ	10/19/12 10:04	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12102202-08A	MW-15	AQ	10/19/12 08:30	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						

Comments: Security seals intact. Frozen ice. Saturday delivery. Samples received 10/20/12 kept cold and secure until login on 10/22/12. Analysts: 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:		Elizabeth Adcox	Alpha Analytical, Inc.	10-22-12 9:18

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.
 Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

CA

WorkOrder : CHHL12102202
Report Due By : 5:00 PM On : 31-Oct-12

Client:
 CH2M Hill
 1000 Wilshire Boulevard
 21st Floor
 Los Angeles, CA 90017

Report Attention	Phone Number	E-Mail Address
Daniel Jablonski	(213) 228-8271 x	daniel.jablonski@ch2m.com
Matthew Mayry	(213) 228-8271 x	matthew.mayry@ch2m.com

EDD Required : Yes

Sampled by : Eric Randall

PO :
 Client's COC # : none Job : KMEP DFSP Norwalk

Cooler Temp	Samples Received	Date Printed
1 °C	20-Oct-12	22-Oct-12

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	Date	No. of Bottles Alpha Sub TAT			Requested Tests						Sample Remarks		
							TPHE_W	TPH/P_W	VOC_W						
CHH12102202-09A	GMW-10	AQ	10/19/12 13:50	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12102202-10A	MW-SF-4	AQ	10/19/12 14:35	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12102202-11A	EB-2	AQ	10/19/12 14:50	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12102202-12A	EB-1	AQ	10/19/12 11:15	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12102202-13A	TB-1	AQ	10/19/12 08:00	3	0	7			TPHE(0.05) +Vinyl acetate						Reno Trip Blank 10/5/12
CHH12102202-14A	DUP-5	AQ	10/19/12 00:00	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						

Comments: Security seals intact. Frozen ice. Saturday delivery. Samples received 10/20/12 kept cold and secure until login on 10/22/12. Analysts: 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>Elizabeth Adcox</i>	Elizabeth Adcox	Alpha Analytical, Inc.	10-22-12 9:18

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.
 The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.
 Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) 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 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												
GMW-0-21	10/19/12	1550	AQ	5	HCL	VCA	X	X										CHH121022020
MW-0-1		1430					X	X										-0
GMW-0-20		1405					X	X										-03
GMW-0-12		1315					X	X										-04
GMW-0-23		1206					X	X										-05
GMW-0-10		1100					X	X										-06
GMW-4		1004					X	X										-07
MW-15		0830					X	X										-08
GMW GMW-10		1350					X	X										-09
MW-SF-4		1435					X	X										-10

SAMPLING COMPLETED DATE 10/19/12 TIME 1630 SAMPLING PERFORMED BY Eric Randall RESULTS NEEDED NO LATER THAN Standard

RELEASED BY Eric Randall TIME 1705 RECEIVED BY Nicole(SC) DATE 10/19/12 TIME 1705

RELEASED BY Nicole(SC) TIME 1710 RECEIVED BY [Signature] DATE 10/19/12 TIME 1710

RELEASED BY [Signature] TIME 1710 RECEIVED BY Elizabeth Adcox DATE 10-22-12 TIME 9:18

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 2

CHAIN OF CUSTODY

CLIENT

Kinder Morgan

SITE

DFSP Norwalk

15306 Norwalk Blvd, Norwalk

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

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
EB-2	10/19/12	1450	AQ	5	HCL	VGA	X	X										-11
EB-1		1115		5			X	X										-12
TB-1		0800		3				X										-13
DUP-5				5			X	X										-14

SAMPLING COMPLETED DATE 10/19/12 TIME 1630 SAMPLING PERFORMED BY Eric Randall RESULTS NEEDED NO LATER THAN Standard

RELEASED BY Eric Randall TIME 1705 RECEIVED BY Nicole (SC) DATE 10/19/12 TIME 1705

RELEASED BY Nicole (SC) TIME 1710 RECEIVED BY [Signature] DATE 10/19/12 TIME 1710

RELEASED BY [Signature] TIME 1710 RECEIVED BY Elizabeth Adcox DATE 10-22-12 TIME 9:18

SHIPPED VIA [Signature] TIME SENT COOLER #



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135
Date Received : 10/20/12

Job: KMEP DFSP Norwalk

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID :	MW-12				
Lab ID :	CHH12102201-01A	TPH-E (DRO)	ND	10/22/12	10/22/12
Date Sampled	10/18/12 09:05	Surr: Nonane	100	10/22/12	10/22/12
		TPH-P (GRO)	ND	10/24/12	10/24/12
		Surr: 1,2-Dichloroethane-d4	84	10/24/12	10/24/12
		Surr: Toluene-d8	100	10/24/12	10/24/12
		Surr: 4-Bromofluorobenzene	93	10/24/12	10/24/12
Client ID :	GMW-27				
Lab ID :	CHH12102201-02A	TPH-E (DRO)	ND	10/22/12	10/22/12
Date Sampled	10/18/12 08:20	Surr: Nonane	103	10/22/12	10/22/12
		TPH-P (GRO)	ND	10/24/12	10/24/12
		Surr: 1,2-Dichloroethane-d4	87	10/24/12	10/24/12
		Surr: Toluene-d8	98	10/24/12	10/24/12
		Surr: 4-Bromofluorobenzene	95	10/24/12	10/24/12
Client ID :	PZ-5				
Lab ID :	CHH12102201-03A	TPH-E (DRO)	0.52	10/22/12	10/22/12
Date Sampled	10/18/12 08:54	Surr: Nonane	121	10/22/12	10/22/12
		TPH-P (GRO)	9.9	10/24/12	10/24/12
		Surr: 1,2-Dichloroethane-d4	95	10/24/12	10/24/12
		Surr: Toluene-d8	101	10/24/12	10/24/12
		Surr: 4-Bromofluorobenzene	96	10/24/12	10/24/12
Client ID :	GWR-1				
Lab ID :	CHH12102201-04A	TPH-E (DRO)	0.24	10/22/12	10/22/12
Date Sampled	10/18/12 10:09	Surr: Nonane	95	10/22/12	10/22/12
		TPH-P (GRO)	0.44	10/24/12	10/24/12
		Surr: 1,2-Dichloroethane-d4	90	10/24/12	10/24/12
		Surr: Toluene-d8	99	10/24/12	10/24/12
		Surr: 4-Bromofluorobenzene	95	10/24/12	10/24/12
Client ID :	MW-SF-1				
Lab ID :	CHH12102201-05A	TPH-E (DRO)	6.4	10/22/12	10/22/12
Date Sampled	10/18/12 10:00	Surr: Nonane	66	10/22/12	10/22/12
		TPH-P (GRO)	3.7	10/24/12	10/24/12
		Surr: 1,2-Dichloroethane-d4	89	10/24/12	10/24/12
		Surr: Toluene-d8	97	10/24/12	10/24/12
		Surr: 4-Bromofluorobenzene	98	10/24/12	10/24/12
Client ID :	GMW-36				
Lab ID :	CHH12102201-06A	TPH-E (DRO)	12	10/22/12	10/22/12
Date Sampled	10/18/12 12:35	Surr: Nonane	135	10/22/12	10/22/12
		TPH-P (GRO)	8.8	10/24/12	10/24/12
		Surr: 1,2-Dichloroethane-d4	89	10/24/12	10/24/12
		Surr: Toluene-d8	98	10/24/12	10/24/12
		Surr: 4-Bromofluorobenzene	99	10/24/12	10/24/12



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Client ID : GMW-O-14						
Lab ID :	CHH12102201-07A	TPH-E (DRO)	2.7		0.050 mg/L	10/22/12
Date Sampled	10/18/12 14:30	Surr: Nonane	113		(49-145) %REC	10/22/12
		TPH-P (GRO)	15		5.0 mg/L	10/24/12
		Surr: 1,2-Dichloroethane-d4	88		(70-130) %REC	10/24/12
		Surr: Toluene-d8	102		(70-130) %REC	10/24/12
		Surr: 4-Bromofluorobenzene	102		(70-130) %REC	10/24/12
Client ID : GMW-O-15						
Lab ID :	CHH12102201-08A	TPH-E (DRO)	0.14		0.050 mg/L	10/22/12
Date Sampled	10/18/12 13:10	Surr: Nonane	100		(49-145) %REC	10/22/12
		TPH-P (GRO)	0.21		0.10 mg/L	10/24/12
		Surr: 1,2-Dichloroethane-d4	94		(70-130) %REC	10/24/12
		Surr: Toluene-d8	99		(70-130) %REC	10/24/12
		Surr: 4-Bromofluorobenzene	96		(70-130) %REC	10/24/12
Client ID : MW-18 (MID)						
Lab ID :	CHH12102201-09A	TPH-E (DRO)	0.17		0.050 mg/L	10/22/12
Date Sampled	10/18/12 11:50	Surr: Nonane	104		(49-145) %REC	10/22/12
		TPH-P (GRO)	0.096		0.050 mg/L	10/24/12
		Surr: 1,2-Dichloroethane-d4	86		(70-130) %REC	10/24/12
		Surr: Toluene-d8	98		(70-130) %REC	10/24/12
		Surr: 4-Bromofluorobenzene	93		(70-130) %REC	10/24/12
Client ID : MW-SF-11						
Lab ID :	CHH12102201-10A	TPH-E (DRO)	0.32	K	0.050 mg/L	10/22/12
Date Sampled	10/18/12 11:05	Surr: Nonane	111		(49-145) %REC	10/22/12
		TPH-P (GRO)	77		20 mg/L	10/24/12
		Surr: 1,2-Dichloroethane-d4	87		(70-130) %REC	10/24/12
		Surr: Toluene-d8	104		(70-130) %REC	10/24/12
		Surr: 4-Bromofluorobenzene	100		(70-130) %REC	10/24/12
Client ID : MW-SF-14						
Lab ID :	CHH12102201-11A	TPH-E (DRO)	0.20	K	0.050 mg/L	10/22/12
Date Sampled	10/18/12 12:00	Surr: Nonane	107		(49-145) %REC	10/22/12
		TPH-P (GRO)	9.8		4.0 mg/L	10/26/12
		Surr: 1,2-Dichloroethane-d4	103		(70-130) %REC	10/26/12
		Surr: Toluene-d8	102		(70-130) %REC	10/26/12
		Surr: 4-Bromofluorobenzene	99		(70-130) %REC	10/26/12
Client ID : GMW-22						
Lab ID :	CHH12102201-12A	TPH-E (DRO)	1.3		0.050 mg/L	10/22/12
Date Sampled	10/18/12 13:05	Surr: Nonane	116		(49-145) %REC	10/22/12
		TPH-P (GRO)	32		20 mg/L	10/24/12
		Surr: 1,2-Dichloroethane-d4	87		(70-130) %REC	10/24/12
		Surr: Toluene-d8	100		(70-130) %REC	10/24/12
		Surr: 4-Bromofluorobenzene	95		(70-130) %REC	10/24/12
Client ID : DUP-4						
Lab ID :	CHH12102201-13A	TPH-E (DRO)	ND		0.050 mg/L	10/22/12
Date Sampled	10/18/12 00:00	Surr: Nonane	105		(49-145) %REC	10/22/12
		TPH-P (GRO)	ND	V	0.10 mg/L	10/24/12
		Surr: 1,2-Dichloroethane-d4	113		(70-130) %REC	10/24/12
		Surr: Toluene-d8	99		(70-130) %REC	10/24/12
		Surr: 4-Bromofluorobenzene	84		(70-130) %REC	10/24/12
Client ID : DUP-6						
Lab ID :	CHH12102201-14A	TPH-E (DRO)	0.52		0.050 mg/L	10/22/12
Date Sampled	10/18/12 00:00	Surr: Nonane	0	S51	(49-145) %REC	10/22/12
		TPH-P (GRO)	12		5.0 mg/L	10/24/12
		Surr: 1,2-Dichloroethane-d4	93		(70-130) %REC	10/24/12
		Surr: Toluene-d8	103		(70-130) %REC	10/24/12
		Surr: 4-Bromofluorobenzene	95		(70-130) %REC	10/24/12



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Client ID : **DUP-7**

Lab ID :	CHH12102201-15A	TPH-E (DRO)	2.8	0.050 mg/L	10/24/12	10/24/12
Date Sampled	10/18/12 00:00	Surr: Nonane	121	(49-145) %REC	10/24/12	10/24/12
		TPH-P (GRO)	18	5.0 mg/L	10/24/12	10/24/12
		Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	10/24/12	10/24/12
		Surr: Toluene-d8	103	(70-130) %REC	10/24/12	10/24/12
		Surr: 4-Bromofluorobenzene	96	(70-130) %REC	10/24/12	10/24/12

Client ID : **EB-1**

Lab ID :	CHH12102201-16A	TPH-E (DRO)	ND	0.050 mg/L	10/24/12	10/25/12
Date Sampled	10/18/12 10:10	Surr: Nonane	91	(49-145) %REC	10/24/12	10/25/12
		TPH-P (GRO)	ND	0.050 mg/L	10/24/12	10/24/12
		Surr: 1,2-Dichloroethane-d4	89	(70-130) %REC	10/24/12	10/24/12
		Surr: Toluene-d8	96	(70-130) %REC	10/24/12	10/24/12
		Surr: 4-Bromofluorobenzene	92	(70-130) %REC	10/24/12	10/24/12

Client ID : **EB-2**

Lab ID :	CHH12102201-17A	TPH-E (DRO)	ND	0.050 mg/L	10/24/12	10/25/12
Date Sampled	10/18/12 13:15	Surr: Nonane	105	(49-145) %REC	10/24/12	10/25/12
		TPH-P (GRO)	ND	0.050 mg/L	10/24/12	10/24/12
		Surr: 1,2-Dichloroethane-d4	90	(70-130) %REC	10/24/12	10/24/12
		Surr: Toluene-d8	97	(70-130) %REC	10/24/12	10/24/12
		Surr: 4-Bromofluorobenzene	93	(70-130) %REC	10/24/12	10/24/12

Diesel Range Organics (DRO) C13-C22

Gasoline Range Organics (GRO) C4-C13

K = DRO concentration may include contributions from lighter-end hydrocarbons that elute in the DRO range.

S51 = Surrogate recovery could not be determined due to the presence of co-eluting hydrocarbons.

V = Reporting Limits were increased due to high concentrations of target analytes.

X = Reporting Limits were increased due to sample matrix interferences.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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10/30/12

Report Date



Alpha Analytical, Inc.

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ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12102201-01A
Client I.D. Number: MW-12

Sampled: 10/18/12 09:05
Received: 10/20/12
Extracted: 10/24/12
Analyzed: 10/24/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	84	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	100	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	93	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
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[Signature]

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ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12102201-02A
Client I.D. Number: GMW-27

Sampled: 10/18/12 08:20
Received: 10/20/12
Extracted: 10/24/12
Analyzed: 10/24/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	300	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	5.0	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	87	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	98	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	95	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12102201-03A
Client I.D. Number: PZ-5

Sampled: 10/18/12 08:54
Received: 10/20/12
Extracted: 10/24/12
Analyzed: 10/24/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	80 µg/L	45 Chlorobenzene	ND	80 µg/L
2 Chloromethane	ND	320 µg/L	46 Ethylbenzene	200	40 µg/L
3 Vinyl chloride	ND	80 µg/L	47 m,p-Xylene	59	40 µg/L
4 Chloroethane	ND	80 µg/L	48 Bromoform	ND	80 µg/L
5 Bromomethane	ND	320 µg/L	49 Xylenes, Total	180	40 µg/L
6 Trichlorofluoromethane	ND	80 µg/L	50 Styrene	ND	80 µg/L
7 Acetone	ND	1,600 µg/L	51 o-Xylene	120	40 µg/L
8 1,1-Dichloroethene	ND	80 µg/L	52 1,1,2,2-Tetrachloroethane	ND	80 µg/L
9 Tertiary Butyl Alcohol (TBA)	83,000	800 µg/L	53 1,2,3-Trichloropropane	ND	320 µg/L
10 Dichloromethane	ND	320 µg/L	54 Isopropylbenzene	ND	80 µg/L
11 Freon-113	ND	80 µg/L	55 Bromobenzene	ND	80 µg/L
12 Carbon disulfide	ND	400 µg/L	56 n-Propylbenzene	ND	80 µg/L
13 trans-1,2-Dichloroethene	ND	80 µg/L	57 4-Chlorotoluene	ND	80 µg/L
14 Methyl tert-butyl ether (MTBE)	5,600	40 µg/L	58 2-Chlorotoluene	ND	80 µg/L
15 1,1-Dichloroethane	ND	80 µg/L	59 1,3,5-Trimethylbenzene	ND	80 µg/L
16 Vinyl acetate	ND	8,000 µg/L	60 tert-Butylbenzene	ND	80 µg/L
17 2-Butanone (MEK)	ND	1,600 µg/L	61 1,2,4-Trimethylbenzene	ND	80 µg/L
18 Di-isopropyl Ether (DIPE)	ND	80 µg/L	62 sec-Butylbenzene	ND	80 µg/L
19 cis-1,2-Dichloroethene	ND	80 µg/L	63 1,3-Dichlorobenzene	ND	80 µg/L
20 Bromochloromethane	ND	80 µg/L	64 1,4-Dichlorobenzene	ND	80 µg/L
21 Chloroform	ND	80 µg/L	65 4-Isopropyltoluene	ND	80 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	80 µg/L	66 1,2-Dichlorobenzene	ND	80 µg/L
23 2,2-Dichloropropane	ND	80 µg/L	67 n-Butylbenzene	ND	80 µg/L
24 1,2-Dichloroethane	ND	80 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	480 µg/L
25 1,1,1-Trichloroethane	ND	80 µg/L	69 1,2,4-Trichlorobenzene	ND	320 µg/L
26 1,1-Dichloropropene	ND	80 µg/L	70 Naphthalene	ND	320 µg/L
27 Carbon tetrachloride	ND	80 µg/L	71 1,2,3-Trichlorobenzene	ND	320 µg/L
28 Benzene	3,300	40 µg/L	72 Surr: 1,2-Dichloroethane-d4	95	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	80 µg/L	73 Surr: Toluene-d8	101	(70-130) %REC
30 Dibromomethane	ND	80 µg/L	74 Surr: 4-Bromofluorobenzene	96	(70-130) %REC
31 1,2-Dichloropropane	ND	80 µg/L			
32 Trichloroethene	ND	80 µg/L			
33 Bromodichloromethane	ND	80 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	400 µg/L			
35 cis-1,3-Dichloropropene	ND	80 µg/L			
36 trans-1,3-Dichloropropene	ND	80 µg/L			
37 1,1,2-Trichloroethane	ND	80 µg/L			
38 Toluene	55	40 µg/L			
39 1,3-Dichloropropane	ND	80 µg/L			
40 2-Hexanone	ND	800 µg/L			
41 Dibromochloromethane	ND	80 µg/L			
42 1,2-Dibromoethane (EDB)	ND	160 µg/L			
43 Tetrachloroethene	ND	80 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	80 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

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Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMFP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12102201-04A
Client I.D. Number: GWR-1

Sampled: 10/18/12 10:09
Received: 10/20/12
Extracted: 10/24/12
Analyzed: 10/24/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	3.0 µg/L	45 Chlorobenzene	ND	3.0 µg/L
2 Chloromethane	ND	12 µg/L	46 Ethylbenzene	ND	1.5 µg/L
3 Vinyl chloride	ND	3.0 µg/L	47 m,p-Xylene	1.5	1.5 µg/L
4 Chloroethane	ND	3.0 µg/L	48 Bromoform	ND	3.0 µg/L
5 Bromomethane	ND	12 µg/L	49 Xylenes, Total	1.5	1.5 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	3.0 µg/L
7 Acetone	ND	60 µg/L	51 o-Xylene	ND	1.5 µg/L
8 1,1-Dichloroethene	ND	3.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	3.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	68	30 µg/L	53 1,2,3-Trichloropropane	ND	12 µg/L
10 Dichloromethane	ND	12 µg/L	54 Isopropylbenzene	ND	3.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	3.0 µg/L
12 Carbon disulfide	ND	15 µg/L	56 n-Propylbenzene	ND	3.0 µg/L
13 trans-1,2-Dichloroethene	ND	3.0 µg/L	57 4-Chlorotoluene	ND	3.0 µg/L
14 Methyl tert-butyl ether (MTBE)	8.6	1.5 µg/L	58 2-Chlorotoluene	ND	3.0 µg/L
15 1,1-Dichloroethane	ND	3.0 µg/L	59 1,3,5-Trimethylbenzene	ND	3.0 µg/L
16 Vinyl acetate	ND	300 µg/L	60 tert-Butylbenzene	ND	3.0 µg/L
17 2-Butanone (MEK)	ND	60 µg/L	61 1,2,4-Trimethylbenzene	ND	3.0 µg/L
18 Di-isopropyl Ether (DIPE)	15	3.0 µg/L	62 sec-Butylbenzene	ND	3.0 µg/L
19 cis-1,2-Dichloroethene	ND	3.0 µg/L	63 1,3-Dichlorobenzene	ND	3.0 µg/L
20 Bromochloromethane	ND	3.0 µg/L	64 1,4-Dichlorobenzene	ND	3.0 µg/L
21 Chloroform	ND	3.0 µg/L	65 4-Isopropyltoluene	ND	3.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	3.0 µg/L	66 1,2-Dichlorobenzene	ND	3.0 µg/L
23 2,2-Dichloropropane	ND	3.0 µg/L	67 n-Butylbenzene	ND	3.0 µg/L
24 1,2-Dichloroethane	ND	3.0 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	18 µg/L
25 1,1,1-Trichloroethane	ND	3.0 µg/L	69 1,2,4-Trichlorobenzene	ND	12 µg/L
26 1,1-Dichloropropene	ND	3.0 µg/L	70 Naphthalene	ND	12 µg/L
27 Carbon tetrachloride	ND	3.0 µg/L	71 1,2,3-Trichlorobenzene	ND	12 µg/L
28 Benzene	140	1.5 µg/L	72 Surr: 1,2-Dichloroethane-d4	90	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	3.0 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	3.0 µg/L	74 Surr: 4-Bromofluorobenzene	95	(70-130) %REC
31 1,2-Dichloropropane	ND	3.0 µg/L			
32 Trichloroethene	ND	3.0 µg/L			
33 Bromodichloromethane	ND	3.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	15 µg/L			
35 cis-1,3-Dichloropropene	ND	3.0 µg/L			
36 trans-1,3-Dichloropropene	ND	3.0 µg/L			
37 1,1,2-Trichloroethane	ND	3.0 µg/L			
38 Toluene	2.2	1.5 µg/L			
39 1,3-Dichloropropane	ND	3.0 µg/L			
40 2-Hexanone	ND	30 µg/L			
41 Dibromochloromethane	ND	3.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	6.0 µg/L			
43 Tetrachloroethene	ND	3.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	3.0 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12102201-05A
Client I.D. Number: MW-SF-1

Sampled: 10/18/12 10:00
Received: 10/20/12
Extracted: 10/24/12
Analyzed: 10/24/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	20 µg/L	45 Chlorobenzene	ND	20 µg/L
2 Chloromethane	ND	80 µg/L	46 Ethylbenzene	15	10 µg/L
3 Vinyl chloride	ND	20 µg/L	47 m,p-Xylene	ND	10 µg/L
4 Chloroethane	ND	20 µg/L	48 Bromoform	ND	20 µg/L
5 Bromomethane	ND	80 µg/L	49 Xylenes, Total	ND	10 µg/L
6 Trichlorofluoromethane	ND	20 µg/L	50 Styrene	ND	20 µg/L
7 Acetone	ND	400 µg/L	51 o-Xylene	ND	10 µg/L
8 1,1-Dichloroethene	ND	20 µg/L	52 1,1,2,2-Tetrachloroethane	ND	20 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	200 µg/L	53 1,2,3-Trichloropropane	ND	80 µg/L
10 Dichloromethane	ND	80 µg/L	54 Isopropylbenzene	ND	20 µg/L
11 Freon-113	ND	20 µg/L	55 Bromobenzene	ND	20 µg/L
12 Carbon disulfide	ND	100 µg/L	56 n-Propylbenzene	32	20 µg/L
13 trans-1,2-Dichloroethene	ND	20 µg/L	57 4-Chlorotoluene	ND	20 µg/L
14 Methyl tert-butyl ether (MTBE)	45	10 µg/L	58 2-Chlorotoluene	ND	20 µg/L
15 1,1-Dichloroethane	ND	20 µg/L	59 1,3,5-Trimethylbenzene	ND	20 µg/L
16 Vinyl acetate	ND	2,000 µg/L	60 tert-Butylbenzene	ND	20 µg/L
17 2-Butanone (MEK)	ND	400 µg/L	61 1,2,4-Trimethylbenzene	ND	20 µg/L
18 Di-isopropyl Ether (DIPE)	ND	20 µg/L	62 sec-Butylbenzene	ND	20 µg/L
19 cis-1,2-Dichloroethene	ND	20 µg/L	63 1,3-Dichlorobenzene	ND	20 µg/L
20 Bromochloromethane	ND	20 µg/L	64 1,4-Dichlorobenzene	ND	20 µg/L
21 Chloroform	ND	20 µg/L	65 4-Isopropyltoluene	ND	20 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/L	66 1,2-Dichlorobenzene	ND	20 µg/L
23 2,2-Dichloropropane	ND	20 µg/L	67 n-Butylbenzene	ND	20 µg/L
24 1,2-Dichloroethane	ND	20 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	120 µg/L
25 1,1,1-Trichloroethane	ND	20 µg/L	69 1,2,4-Trichlorobenzene	ND	80 µg/L
26 1,1-Dichloropropene	ND	20 µg/L	70 Naphthalene	ND	80 µg/L
27 Carbon tetrachloride	ND	20 µg/L	71 1,2,3-Trichlorobenzene	ND	80 µg/L
28 Benzene	1,500	10 µg/L	72 Surr: 1,2-Dichloroethane-d4	89	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/L	73 Surr: Toluene-d8	97	(70-130) %REC
30 Dibromomethane	ND	20 µg/L	74 Surr: 4-Bromofluorobenzene	98	(70-130) %REC
31 1,2-Dichloropropane	ND	20 µg/L			
32 Trichloroethene	ND	20 µg/L			
33 Bromodichloromethane	ND	20 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	100 µg/L			
35 cis-1,3-Dichloropropene	ND	20 µg/L			
36 trans-1,3-Dichloropropene	ND	20 µg/L			
37 1,1,2-Trichloroethane	ND	20 µg/L			
38 Toluene	ND	10 µg/L			
39 1,3-Dichloropropane	ND	20 µg/L			
40 2-Hexanone	ND	200 µg/L			
41 Dibromochloromethane	ND	20 µg/L			
42 1,2-Dibromoethane (EDB)	ND	40 µg/L			
43 Tetrachloroethene	ND	20 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	20 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12102201-06A
Client I.D. Number: GMW-36

Sampled: 10/18/12 12:35
Received: 10/20/12
Extracted: 10/24/12
Analyzed: 10/24/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	5.0 µg/L	45 Chlorobenzene	ND	5.0 µg/L
2 Chloromethane	ND	20 µg/L	46 Ethylbenzene	28	2.5 µg/L
3 Vinyl chloride	ND	5.0 µg/L	47 m,p-Xylene	380	2.5 µg/L
4 Chloroethane	ND	5.0 µg/L	48 Bromoform	ND	5.0 µg/L
5 Bromomethane	ND	20 µg/L	49 Xylenes, Total	490	2.5 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	5.0 µg/L
7 Acetone	ND	100 µg/L	51 o-Xylene	110	2.5 µg/L
8 1,1-Dichloroethene	ND	5.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	5.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	100	50 µg/L	53 1,2,3-Trichloropropane	ND	20 µg/L
10 Dichloromethane	ND	20 µg/L	54 Isopropylbenzene	ND	5.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	5.0 µg/L
12 Carbon disulfide	ND	25 µg/L	56 n-Propylbenzene	7.6	5.0 µg/L
13 trans-1,2-Dichloroethene	ND	5.0 µg/L	57 4-Chlorotoluene	ND	5.0 µg/L
14 Methyl tert-butyl ether (MTBE)	70	2.5 µg/L	58 2-Chlorotoluene	ND	5.0 µg/L
15 1,1-Dichloroethane	ND	5.0 µg/L	59 1,3,5-Trimethylbenzene	250	5.0 µg/L
16 Vinyl acetate	ND	500 µg/L	60 tert-Butylbenzene	ND	5.0 µg/L
17 2-Butanone (MEK)	ND	100 µg/L	61 1,2,4-Trimethylbenzene	330	5.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	5.0 µg/L	62 sec-Butylbenzene	ND	5.0 µg/L
19 cis-1,2-Dichloroethene	ND	5.0 µg/L	63 1,3-Dichlorobenzene	ND	5.0 µg/L
20 Bromochloromethane	ND	5.0 µg/L	64 1,4-Dichlorobenzene	ND	5.0 µg/L
21 Chloroform	ND	5.0 µg/L	65 4-Isopropyltoluene	15	5.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	5.0 µg/L	66 1,2-Dichlorobenzene	ND	5.0 µg/L
23 2,2-Dichloropropane	ND	5.0 µg/L	67 n-Butylbenzene	19	5.0 µg/L
24 1,2-Dichloroethane	ND	5.0 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	30 µg/L
25 1,1,1-Trichloroethane	ND	5.0 µg/L	69 1,2,4-Trichlorobenzene	ND	20 µg/L
26 1,1-Dichloropropene	ND	5.0 µg/L	70 Naphthalene	160	20 µg/L
27 Carbon tetrachloride	ND	5.0 µg/L	71 1,2,3-Trichlorobenzene	ND	20 µg/L
28 Benzene	350	2.5 µg/L	72 Surr: 1,2-Dichloroethane-d4	89	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	5.0 µg/L	73 Surr: Toluene-d8	98	(70-130) %REC
30 Dibromomethane	ND	5.0 µg/L	74 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
31 1,2-Dichloropropane	ND	5.0 µg/L			
32 Trichloroethene	ND	5.0 µg/L			
33 Bromodichloromethane	ND	5.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	25 µg/L			
35 cis-1,3-Dichloropropene	ND	5.0 µg/L			
36 trans-1,3-Dichloropropene	ND	5.0 µg/L			
37 1,1,2-Trichloroethane	ND	5.0 µg/L			
38 Toluene	33	2.5 µg/L			
39 1,3-Dichloropropane	ND	5.0 µg/L			
40 2-Hexanone	ND	50 µg/L			
41 Dibromochloromethane	ND	5.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	10 µg/L			
43 Tetrachloroethene	ND	5.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	5.0 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMFP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12102201-07A
Client I.D. Number: GMW-O-14

Sampled: 10/18/12 14:30
Received: 10/20/12
Extracted: 10/24/12
Analyzed: 10/24/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	50 µg/L	45 Chlorobenzene	ND	50 µg/L
2 Chloromethane	ND	200 µg/L	46 Ethylbenzene	520	25 µg/L
3 Vinyl chloride	ND	50 µg/L	47 m,p-Xylene	1,100	25 µg/L
4 Chloroethane	ND	50 µg/L	48 Bromoform	ND	50 µg/L
5 Bromomethane	ND	200 µg/L	49 Xylenes, Total	1,800	25 µg/L
6 Trichlorofluoromethane	ND	50 µg/L	50 Styrene	ND	50 µg/L
7 Acetone	ND	1,000 µg/L	51 o-Xylene	680	25 µg/L
8 1,1-Dichloroethene	ND	50 µg/L	52 1,1,2,2-Tetrachloroethane	ND	50 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	500 µg/L	53 1,2,3-Trichloropropane	ND	200 µg/L
10 Dichloromethane	ND	200 µg/L	54 Isopropylbenzene	ND	50 µg/L
11 Freon-113	ND	50 µg/L	55 Bromobenzene	ND	50 µg/L
12 Carbon disulfide	ND	250 µg/L	56 n-Propylbenzene	ND	50 µg/L
13 trans-1,2-Dichloroethene	ND	50 µg/L	57 4-Chlorotoluene	ND	50 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	25 µg/L	58 2-Chlorotoluene	ND	50 µg/L
15 1,1-Dichloroethane	ND	50 µg/L	59 1,3,5-Trimethylbenzene	110	50 µg/L
16 Vinyl acetate	ND	5,000 µg/L	60 tert-Butylbenzene	ND	50 µg/L
17 2-Butanone (MEK)	ND	1,000 µg/L	61 1,2,4-Trimethylbenzene	340	50 µg/L
18 Di-isopropyl Ether (DIPE)	70	50 µg/L	62 sec-Butylbenzene	ND	50 µg/L
19 cis-1,2-Dichloroethene	ND	50 µg/L	63 1,3-Dichlorobenzene	ND	50 µg/L
20 Bromochloromethane	ND	50 µg/L	64 1,4-Dichlorobenzene	ND	50 µg/L
21 Chloroform	ND	50 µg/L	65 4-Isopropyltoluene	ND	50 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	50 µg/L	66 1,2-Dichlorobenzene	ND	50 µg/L
23 2,2-Dichloropropane	ND	50 µg/L	67 n-Butylbenzene	ND	50 µg/L
24 1,2-Dichloroethane	ND	50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	300 µg/L
25 1,1,1-Trichloroethane	ND	50 µg/L	69 1,2,4-Trichlorobenzene	ND	200 µg/L
26 1,1-Dichloropropene	ND	50 µg/L	70 Naphthalene	210	200 µg/L
27 Carbon tetrachloride	ND	50 µg/L	71 1,2,3-Trichlorobenzene	ND	200 µg/L
28 Benzene	2,600	25 µg/L	72 Surr: 1,2-Dichloroethane-d4	88	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	50 µg/L	73 Surr: Toluene-d8	102	(70-130) %REC
30 Dibromomethane	ND	50 µg/L	74 Surr: 4-Bromofluorobenzene	102	(70-130) %REC
31 1,2-Dichloropropane	ND	50 µg/L			
32 Trichloroethene	ND	50 µg/L			
33 Bromodichloromethane	ND	50 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	250 µg/L			
35 cis-1,3-Dichloropropene	ND	50 µg/L			
36 trans-1,3-Dichloropropene	ND	50 µg/L			
37 1,1,2-Trichloroethane	ND	50 µg/L			
38 Toluene	1,100	25 µg/L			
39 1,3-Dichloropropane	ND	50 µg/L			
40 2-Hexanone	ND	500 µg/L			
41 Dibromochloromethane	ND	50 µg/L			
42 1,2-Dibromoethane (EDB)	ND	100 µg/L			
43 Tetrachloroethene	ND	50 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	50 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

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Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12102201-08A
Client I.D. Number: GMW-O-15

Sampled: 10/18/12 13:10
Received: 10/20/12
Extracted: 10/24/12
Analyzed: 10/24/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	4.0 µg/L	46 Ethylbenzene	3.3	0.50 µg/L
3 Vinyl chloride	ND	1.0 µg/L	47 m,p-Xylene	5.3	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	4.0 µg/L	49 Xylenes, Total	5.9	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	20 µg/L	51 o-Xylene	0.52	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	2,600	40 µg/L	53 1,2,3-Trichloropropane	ND	4.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	5.0 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	13	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	2.0	1.0 µg/L
16 Vinyl acetate	ND	100 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	20 µg/L	61 1,2,4-Trimethylbenzene	2.5	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	1.0 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	6.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	4.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	4.0 µg/L
28 Benzene	50	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	94	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	96	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	1.0 µg/L			
36 trans-1,3-Dichloropropene	ND	1.0 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	10 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

Some Reporting Limits were increased due to high concentrations of target analytes.

*This analyte was analyzed separately on 10/26/12 in order to achieve lower reporting limits for the other analytes.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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PS

10/30/12

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Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12102201-09A
Client I.D. Number: MW-18 (MID)

Sampled: 10/18/12 11:50
Received: 10/20/12
Extracted: 10/24/12
Analyzed: 10/24/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	49	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	3.6	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	86	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	98	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	93	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12102201-10A
Client I.D. Number: MW-SF-11

Sampled: 10/18/12 11:05
Received: 10/20/12
Extracted: 10/24/12
Analyzed: 10/24/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	200 µg/L	45 Chlorobenzene	ND	200 µg/L
2 Chloromethane	ND	800 µg/L	46 Ethylbenzene	2,600	100 µg/L
3 Vinyl chloride	ND	200 µg/L	47 m,p-Xylene	6,300	100 µg/L
4 Chloroethane	ND	200 µg/L	48 Bromoform	ND	200 µg/L
5 Bromomethane	ND	800 µg/L	49 Xylenes, Total	6,500	100 µg/L
6 Trichlorofluoromethane	ND	200 µg/L	50 Styrene	ND	200 µg/L
7 Acetone	ND	4,000 µg/L	51 o-Xylene	130	100 µg/L
8 1,1-Dichloroethane	ND	200 µg/L	52 1,1,2,2-Tetrachloroethane	ND	200 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	2,000 µg/L	53 1,2,3-Trichloropropane	ND	800 µg/L
10 Dichloromethane	ND	800 µg/L	54 Isopropylbenzene	ND	200 µg/L
11 Freon-113	ND	200 µg/L	55 Bromobenzene	ND	200 µg/L
12 Carbon disulfide	ND	1,000 µg/L	56 n-Propylbenzene	380	200 µg/L
13 trans-1,2-Dichloroethane	ND	200 µg/L	57 4-Chlorotoluene	ND	200 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	100 µg/L	58 2-Chlorotoluene	ND	200 µg/L
15 1,1-Dichloroethane	ND	200 µg/L	59 1,3,5-Trimethylbenzene	560	200 µg/L
16 Vinyl acetate	ND	20,000 µg/L	60 tert-Butylbenzene	ND	200 µg/L
17 2-Butanone (MEK)	ND	4,000 µg/L	61 1,2,4-Trimethylbenzene	2,200	200 µg/L
18 Di-isopropyl Ether (DIPE)	ND	200 µg/L	62 sec-Butylbenzene	ND	200 µg/L
19 cis-1,2-Dichloroethane	ND	200 µg/L	63 1,3-Dichlorobenzene	ND	200 µg/L
20 Bromochloromethane	ND	200 µg/L	64 1,4-Dichlorobenzene	ND	200 µg/L
21 Chloroform	ND	200 µg/L	65 4-Isopropyltoluene	ND	200 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	200 µg/L	66 1,2-Dichlorobenzene	ND	200 µg/L
23 2,2-Dichloropropane	ND	200 µg/L	67 n-Butylbenzene	ND	200 µg/L
24 1,2-Dichloroethane	ND	200 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	1,200 µg/L
25 1,1,1-Trichloroethane	ND	200 µg/L	69 1,2,4-Trichlorobenzene	ND	800 µg/L
26 1,1-Dichloropropene	ND	200 µg/L	70 Naphthalene	ND	800 µg/L
27 Carbon tetrachloride	ND	200 µg/L	71 1,2,3-Trichlorobenzene	ND	800 µg/L
28 Benzene	18,000	100 µg/L	72 Surr: 1,2-Dichloroethane-d4	87	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	200 µg/L	73 Surr: Toluene-d8	104	(70-130) %REC
30 Dibromomethane	ND	200 µg/L	74 Surr: 4-Bromofluorobenzene	100	(70-130) %REC
31 1,2-Dichloropropane	ND	200 µg/L			
32 Trichloroethene	ND	200 µg/L			
33 Bromodichloromethane	ND	200 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	1,000 µg/L			
35 cis-1,3-Dichloropropene	ND	200 µg/L			
36 trans-1,3-Dichloropropene	ND	200 µg/L			
37 1,1,2-Trichloroethane	ND	200 µg/L			
38 Toluene	420	100 µg/L			
39 1,3-Dichloropropane	ND	200 µg/L			
40 2-Hexanone	ND	2,000 µg/L			
41 Dibromochloromethane	ND	200 µg/L			
42 1,2-Dibromoethane (EDB)	ND	400 µg/L			
43 Tetrachloroethene	ND	200 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	200 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12102201-11A
Client I.D. Number: MW-SF-14

Sampled: 10/18/12 12:00
Received: 10/20/12
Extracted: 10/26/12
Analyzed: 10/26/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	40 µg/L	45 Chlorobenzene	ND	40 µg/L
2 Chloromethane	ND	160 µg/L	46 Ethylbenzene	ND	20 µg/L
3 Vinyl chloride	ND	40 µg/L	47 m,p-Xylene	43	20 µg/L
4 Chloroethane	ND	40 µg/L	48 Bromoform	ND	40 µg/L
5 Bromomethane	ND	160 µg/L	49 Xylenes, Total	64	20 µg/L
6 Trichlorofluoromethane	ND	40 µg/L	50 Styrene	ND	40 µg/L
7 Acetone	ND	800 µg/L	51 o-Xylene	21	20 µg/L
8 1,1-Dichloroethene	ND	40 µg/L	52 1,1,2,2-Tetrachloroethane	ND	40 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	400 µg/L	53 1,2,3-Trichloropropane	ND	160 µg/L
10 Dichloromethane	ND	160 µg/L	54 Isopropylbenzene	ND	40 µg/L
11 Freon-113	ND	40 µg/L	55 Bromobenzene	ND	40 µg/L
12 Carbon disulfide	ND	200 µg/L	56 n-Propylbenzene	57	40 µg/L
13 trans-1,2-Dichloroethene	ND	40 µg/L	57 4-Chlorotoluene	ND	40 µg/L
14 Methyl tert-butyl ether (MTBE)	58	20 µg/L	58 2-Chlorotoluene	ND	40 µg/L
15 1,1-Dichloroethane	ND	40 µg/L	59 1,3,5-Trimethylbenzene	ND	40 µg/L
16 Vinyl acetate	ND	4,000 µg/L	60 tert-Butylbenzene	ND	40 µg/L
17 2-Butanone (MEK)	ND	800 µg/L	61 1,2,4-Trimethylbenzene	ND	40 µg/L
18 Di-isopropyl Ether (DIPE)	ND	40 µg/L	62 sec-Butylbenzene	ND	40 µg/L
19 cis-1,2-Dichloroethene	ND	40 µg/L	63 1,3-Dichlorobenzene	ND	40 µg/L
20 Bromochloromethane	ND	40 µg/L	64 1,4-Dichlorobenzene	ND	40 µg/L
21 Chloroform	ND	40 µg/L	65 4-Isopropyltoluene	ND	40 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	40 µg/L	66 1,2-Dichlorobenzene	ND	40 µg/L
23 2,2-Dichloropropane	ND	40 µg/L	67 n-Butylbenzene	ND	40 µg/L
24 1,2-Dichloroethane	ND	40 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	240 µg/L
25 1,1,1-Trichloroethane	ND	40 µg/L	69 1,2,4-Trichlorobenzene	ND	160 µg/L
26 1,1-Dichloropropene	ND	40 µg/L	70 Naphthalene	ND	160 µg/L
27 Carbon tetrachloride	ND	40 µg/L	71 1,2,3-Trichlorobenzene	ND	160 µg/L
28 Benzene	5,100	20 µg/L	72 Surr: 1,2-Dichloroethane-d4	103	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	40 µg/L	73 Surr: Toluene-d8	102	(70-130) %REC
30 Dibromomethane	ND	40 µg/L	74 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
31 1,2-Dichloropropane	ND	40 µg/L			
32 Trichloroethene	ND	40 µg/L			
33 Bromodichloromethane	ND	40 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	200 µg/L			
35 cis-1,3-Dichloropropene	ND	40 µg/L			
36 trans-1,3-Dichloropropene	ND	40 µg/L			
37 1,1,2-Trichloroethane	ND	40 µg/L			
38 Toluene	24	20 µg/L			
39 1,3-Dichloropropane	ND	40 µg/L			
40 2-Hexanone	ND	400 µg/L			
41 Dibromochloromethane	ND	40 µg/L			
42 1,2-Dibromoethane (EDB)	ND	80 µg/L			
43 Tetrachloroethene	ND	40 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	40 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

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Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12102201-12A
Client I.D. Number: GMW-22

Sampled: 10/18/12 13:05
Received: 10/20/12
Extracted: 10/24/12
Analyzed: 10/24/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	200 µg/L	45 Chlorobenzene	ND	200 µg/L
2 Chloromethane	ND	800 µg/L	46 Ethylbenzene	420	100 µg/L
3 Vinyl chloride	ND	200 µg/L	47 m,p-Xylene	140	100 µg/L
4 Chloroethane	ND	200 µg/L	48 Bromoform	ND	200 µg/L
5 Bromomethane	ND	800 µg/L	49 Xylenes, Total	140	100 µg/L
6 Trichlorofluoromethane	ND	200 µg/L	50 Styrene	ND	200 µg/L
7 Acetone	ND	4,000 µg/L	51 o-Xylene	ND	100 µg/L
8 1,1-Dichloroethene	ND	200 µg/L	52 1,1,2,2-Tetrachloroethane	ND	200 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	2,000 µg/L	53 1,2,3-Trichloropropane	ND	800 µg/L
10 Dichloromethane	ND	800 µg/L	54 Isopropylbenzene	ND	200 µg/L
11 Freon-113	ND	200 µg/L	55 Bromobenzene	ND	200 µg/L
12 Carbon disulfide	ND	1,000 µg/L	56 n-Propylbenzene	ND	200 µg/L
13 trans-1,2-Dichloroethene	ND	200 µg/L	57 4-Chlorotoluene	ND	200 µg/L
14 Methyl tert-butyl ether (MTBE)	180	100 µg/L	58 2-Chlorotoluene	ND	200 µg/L
15 1,1-Dichloroethane	ND	200 µg/L	59 1,3,5-Trimethylbenzene	ND	200 µg/L
16 Vinyl acetate	ND	20,000 µg/L	60 tert-Butylbenzene	ND	200 µg/L
17 2-Butanone (MEK)	ND	4,000 µg/L	61 1,2,4-Trimethylbenzene	ND	200 µg/L
18 Di-isopropyl Ether (DIPE)	ND	200 µg/L	62 sec-Butylbenzene	ND	200 µg/L
19 cis-1,2-Dichloroethene	ND	200 µg/L	63 1,3-Dichlorobenzene	ND	200 µg/L
20 Bromochloromethane	ND	200 µg/L	64 1,4-Dichlorobenzene	ND	200 µg/L
21 Chloroform	ND	200 µg/L	65 4-Isopropyltoluene	ND	200 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	200 µg/L	66 1,2-Dichlorobenzene	ND	200 µg/L
23 2,2-Dichloropropane	ND	200 µg/L	67 n-Butylbenzene	ND	200 µg/L
24 1,2-Dichloroethane	ND	200 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	1,200 µg/L
25 1,1,1-Trichloroethane	ND	200 µg/L	69 1,2,4-Trichlorobenzene	ND	800 µg/L
26 1,1-Dichloropropene	ND	200 µg/L	70 Naphthalene	ND	800 µg/L
27 Carbon tetrachloride	ND	200 µg/L	71 1,2,3-Trichlorobenzene	ND	800 µg/L
28 Benzene	16,000	100 µg/L	72 Surr: 1,2-Dichloroethane-d4	87	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	200 µg/L	73 Surr: Toluene-d8	100	(70-130) %REC
30 Dibromomethane	ND	200 µg/L	74 Surr: 4-Bromofluorobenzene	95	(70-130) %REC
31 1,2-Dichloropropane	ND	200 µg/L			
32 Trichloroethene	ND	200 µg/L			
33 Bromodichloromethane	ND	200 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	1,000 µg/L			
35 cis-1,3-Dichloropropene	ND	200 µg/L			
36 trans-1,3-Dichloropropene	ND	200 µg/L			
37 1,1,2-Trichloroethane	ND	200 µg/L			
38 Toluene	120	100 µg/L			
39 1,3-Dichloropropane	ND	200 µg/L			
40 2-Hexanone	ND	2,000 µg/L			
41 Dibromochloromethane	ND	200 µg/L			
42 1,2-Dibromoethane (EDB)	ND	400 µg/L			
43 Tetrachloroethene	ND	200 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	200 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12102201-13A
Client I.D. Number: DUP-4

Sampled: 10/18/12 00:00
Received: 10/20/12
Extracted: 10/24/12
Analyzed: 10/24/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	4.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	1.0 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	4.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	20 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	460	10 µg/L	53 1,2,3-Trichloropropane	ND	4.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	5.0 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	0.57	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	100 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	20 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	7.4	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	1.0 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	6.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	4.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	4.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	113	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	84	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	1.0 µg/L			
36 trans-1,3-Dichloropropene	ND	1.0 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	10 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

Some Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12102201-14A
Client I.D. Number: DUP-6

Sampled: 10/18/12 00:00
Received: 10/20/12
Extracted: 10/24/12
Analyzed: 10/24/12

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	50 µg/L	45 Chlorobenzene	ND	50 µg/L
2 Chloromethane	ND	200 µg/L	46 Ethylbenzene	290	25 µg/L
3 Vinyl chloride	ND	50 µg/L	47 m,p-Xylene	56	25 µg/L
4 Chloroethane	ND	50 µg/L	48 Bromoform	ND	50 µg/L
5 Bromomethane	ND	200 µg/L	49 Xylenes, Total	190	25 µg/L
6 Trichlorofluoromethane	ND	50 µg/L	50 Styrene	ND	50 µg/L
7 Acetone	ND	1,000 µg/L	51 o-Xylene	130	25 µg/L
8 1,1-Dichloroethene	ND	50 µg/L	52 1,1,2,2-Tetrachloroethane	ND	50 µg/L
9 Tertiary Butyl Alcohol (TBA)	110,000	2,000 µg/L	53 1,2,3-Trichloropropane	ND	200 µg/L
10 Dichloromethane	ND	200 µg/L	54 Isopropylbenzene	ND	50 µg/L
11 Freon-113	ND	50 µg/L	55 Bromobenzene	ND	50 µg/L
12 Carbon disulfide	ND	250 µg/L	56 n-Propylbenzene	ND	50 µg/L
13 trans-1,2-Dichloroethene	ND	50 µg/L	57 4-Chlorotoluene	ND	50 µg/L
14 Methyl tert-butyl ether (MTBE)	7,000	25 µg/L	58 2-Chlorotoluene	ND	50 µg/L
15 1,1-Dichloroethane	ND	50 µg/L	59 1,3,5-Trimethylbenzene	ND	50 µg/L
16 Vinyl acetate	ND	5,000 µg/L	60 tert-Butylbenzene	ND	50 µg/L
17 2-Butanone (MEK)	ND	1,000 µg/L	61 1,2,4-Trimethylbenzene	65	50 µg/L
18 Di-isopropyl Ether (DIPE)	ND	50 µg/L	62 sec-Butylbenzene	ND	50 µg/L
19 cis-1,2-Dichloroethene	ND	50 µg/L	63 1,3-Dichlorobenzene	ND	50 µg/L
20 Bromochloromethane	ND	50 µg/L	64 1,4-Dichlorobenzene	ND	50 µg/L
21 Chloroform	ND	50 µg/L	65 4-Isopropyltoluene	ND	50 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	50 µg/L	66 1,2-Dichlorobenzene	ND	50 µg/L
23 2,2-Dichloropropane	ND	50 µg/L	67 n-Butylbenzene	ND	50 µg/L
24 1,2-Dichloroethane	ND	50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	300 µg/L
25 1,1,1-Trichloroethane	ND	50 µg/L	69 1,2,4-Trichlorobenzene	ND	200 µg/L
26 1,1-Dichloropropene	ND	50 µg/L	70 Naphthalene	ND	200 µg/L
27 Carbon tetrachloride	ND	50 µg/L	71 1,2,3-Trichlorobenzene	ND	200 µg/L
28 Benzene	4,400	25 µg/L	72 Surr: 1,2-Dichloroethane-d4	93	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	50 µg/L	73 Surr: Toluene-d8	103	(70-130) %REC
30 Dibromomethane	ND	50 µg/L	74 Surr: 4-Bromofluorobenzene	95	(70-130) %REC
31 1,2-Dichloropropane	ND	50 µg/L			
32 Trichloroethene	ND	50 µg/L			
33 Bromodichloromethane	ND	50 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	250 µg/L			
35 cis-1,3-Dichloropropene	ND	50 µg/L			
36 trans-1,3-Dichloropropene	ND	50 µg/L			
37 1,1,2-Trichloroethane	ND	50 µg/L			
38 Toluene	51	25 µg/L			
39 1,3-Dichloropropane	ND	50 µg/L			
40 2-Hexanone	ND	500 µg/L			
41 Dibromochloromethane	ND	50 µg/L			
42 1,2-Dibromoethane (EDB)	ND	100 µg/L			
43 Tetrachloroethene	ND	50 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	50 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

*This analyte was analyzed separately on 10/24/12 in order to achieve lower reporting limits for the other analytes.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12102201-15A
Client I.D. Number: DUP-7

Sampled: 10/18/12 00:00
Received: 10/20/12
Extracted: 10/24/12
Analyzed: 10/24/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	50 µg/L	45 Chlorobenzene	ND	50 µg/L
2 Chloromethane	ND	200 µg/L	46 Ethylbenzene	700	25 µg/L
3 Vinyl chloride	ND	50 µg/L	47 m,p-Xylene	1,600	25 µg/L
4 Chloroethane	ND	50 µg/L	48 Bromoform	ND	50 µg/L
5 Bromomethane	ND	200 µg/L	49 Xylenes, Total	2,400	25 µg/L
6 Trichlorofluoromethane	ND	50 µg/L	50 Styrene	ND	50 µg/L
7 Acetone	1,000	µg/L	51 o-Xylene	820	25 µg/L
8 1,1-Dichloroethene	ND	50 µg/L	52 1,1,2,2-Tetrachloroethane	ND	50 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	500 µg/L	53 1,2,3-Trichloropropane	ND	200 µg/L
10 Dichloromethane	ND	200 µg/L	54 Isopropylbenzene	ND	50 µg/L
11 Freon-113	ND	50 µg/L	55 Bromobenzene	ND	50 µg/L
12 Carbon disulfide	ND	250 µg/L	56 n-Propylbenzene	63	50 µg/L
13 trans-1,2-Dichloroethene	ND	50 µg/L	57 4-Chlorotoluene	ND	50 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	25 µg/L	58 2-Chlorotoluene	ND	50 µg/L
15 1,1-Dichloroethane	ND	50 µg/L	59 1,3,5-Trimethylbenzene	140	50 µg/L
16 Vinyl acetate	ND	5,000 µg/L	60 tert-Butylbenzene	ND	50 µg/L
17 2-Butanone (MEK)	ND	1,000 µg/L	61 1,2,4-Trimethylbenzene	480	50 µg/L
18 Di-isopropyl Ether (DIPE)	ND	50 µg/L	62 sec-Butylbenzene	ND	50 µg/L
19 cis-1,2-Dichloroethene	ND	50 µg/L	63 1,3-Dichlorobenzene	ND	50 µg/L
20 Bromochloromethane	ND	50 µg/L	64 1,4-Dichlorobenzene	ND	50 µg/L
21 Chloroform	ND	50 µg/L	65 4-Isopropyltoluene	ND	50 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	50 µg/L	66 1,2-Dichlorobenzene	ND	50 µg/L
23 2,2-Dichloropropane	ND	50 µg/L	67 n-Butylbenzene	ND	50 µg/L
24 1,2-Dichloroethane	ND	50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	300 µg/L
25 1,1,1-Trichloroethane	ND	50 µg/L	69 1,2,4-Trichlorobenzene	ND	200 µg/L
26 1,1-Dichloropropene	ND	50 µg/L	70 Naphthalene	ND	200 µg/L
27 Carbon tetrachloride	ND	50 µg/L	71 1,2,3-Trichlorobenzene	ND	200 µg/L
28 Benzene	2,700	µg/L	72 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	50 µg/L	73 Surr: Toluene-d8	103	(70-130) %REC
30 Dibromomethane	ND	50 µg/L	74 Surr: 4-Bromofluorobenzene	96	(70-130) %REC
31 1,2-Dichloropropane	ND	50 µg/L			
32 Trichloroethene	ND	50 µg/L			
33 Bromodichloromethane	ND	50 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	250 µg/L			
35 cis-1,3-Dichloropropene	ND	50 µg/L			
36 trans-1,3-Dichloropropene	ND	50 µg/L			
37 1,1,2-Trichloroethane	ND	50 µg/L			
38 Toluene	1,300	µg/L			
39 1,3-Dichloropropane	ND	50 µg/L			
40 2-Hexanone	ND	500 µg/L			
41 Dibromochloromethane	ND	50 µg/L			
42 1,2-Dibromoethane (EDB)	ND	100 µg/L			
43 Tetrachloroethene	ND	50 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	50 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12102201-16A
Client I.D. Number: EB-1

Sampled: 10/18/12 10:10
Received: 10/20/12
Extracted: 10/24/12
Analyzed: 10/24/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	89	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	96	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	92	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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[Signature]

10/30/12

Report Date

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Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12102201-17A
Client I.D. Number: EB-2

Sampled: 10/18/12 13:15
Received: 10/20/12
Extracted: 10/24/12
Analyzed: 10/24/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	90	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	97	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	93	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered in any way.

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10/30/12

Report Date

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12102201-18A
Client I.D. Number: TB-1

Sampled: 10/18/12 08:00
Received: 10/20/12
Extracted: 10/24/12
Analyzed: 10/24/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	87	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	97	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	91	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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[Signature]

10/30/12

Report Date

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

VOC Sample Preservation Report

Work Order: CHH12102201

Job: KMEP DFSP Norwalk

Alpha's Sample ID	Client's Sample ID	Matrix	pH
12102201-01A	MW-12	Aqueous	2
12102201-02A	GMW-27	Aqueous	2
12102201-03A	PZ-5	Aqueous	5
12102201-04A	GWR-1	Aqueous	5
12102201-05A	MW-SF-1	Aqueous	5
12102201-06A	GMW-36	Aqueous	5
12102201-07A	GMW-O-14	Aqueous	5
12102201-08A	GMW-O-15	Aqueous	2
12102201-09A	MW-18 (MID)	Aqueous	2
12102201-10A	MW-SF-11	Aqueous	5
12102201-11A	MW-SF-14	Aqueous	5
12102201-12A	GMW-22	Aqueous	5
12102201-13A	DUP-4	Aqueous	2
12102201-14A	DUP-6	Aqueous	5
12102201-15A	DUP-7	Aqueous	2
12102201-16A	EB-1	Aqueous	2
12102201-17A	EB-2	Aqueous	2
12102201-18A	TB-1	Aqueous	2

10/30/12
Report Date

Page 1 of 1



Alpha Analytical, Inc.

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Date:
29-Oct-12

QC Summary Report

Work Order:
12102201

Method Blank

File ID: 2A10221205.D

Sample ID: MBLK-29728

Analyte

TPH-E (DRO)

Surr: Nonane

Type **MBLK** Test Code: EPA Method SW8015B/C Ext

Batch ID: 29728

Analysis Date: 10/22/2012 14:43

Run ID: FID_2_121022A

Prep Date: 10/22/2012 11:33

Units : mg/L

Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
ND	0.05								
0.177		0.15		118	49	145			

Laboratory Control Spike

File ID: 2A10221206.D

Sample ID: LCS-29728

Analyte

TPH-E (DRO)

Surr: Nonane

Type **LCS** Test Code: EPA Method SW8015B/C Ext

Batch ID: 29728

Analysis Date: 10/22/2012 15:09

Run ID: FID_2_121022A

Prep Date: 10/22/2012 11:33

Units : mg/L

Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
2.22	0.05	2.5		89	70	130			
0.157		0.15		105	49	145			

Sample Matrix Spike

File ID: 2A10221210.D

Sample ID: 12102203-01AMS

Analyte

TPH-E (DRO)

Surr: Nonane

Type **MS** Test Code: EPA Method SW8015B/C Ext

Batch ID: 29728

Analysis Date: 10/22/2012 16:50

Run ID: FID_2_121022A

Prep Date: 10/22/2012 11:33

Units : mg/L

Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
2.07	0.05	2.5	0	83	53	150			
0.11		0.15		73	49	145			

Sample Matrix Spike Duplicate

File ID: 2A10221211.D

Sample ID: 12102203-01AMSD

Analyte

TPH-E (DRO)

Surr: Nonane

Type **MSD** Test Code: EPA Method SW8015B/C Ext

Batch ID: 29728

Analysis Date: 10/22/2012 17:15

Run ID: FID_2_121022A

Prep Date: 10/22/2012 11:33

Units : mg/L

Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
2.16	0.05	2.5	0	86	53	150	2.074	3.9(47)	
0.098		0.15		65	49	145			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
29-Oct-12

QC Summary Report

Work Order:
12102201

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C**

File ID: **C:\HPCHEM\MS10\DATA\121024\12102406.D**

Batch ID: **MS10W1024B**

Analysis Date: **10/24/2012 13:01**

Sample ID: **MBLK MS10W1024B**

Units: **mg/L**

Run ID: **MSD_10_121024A**

Prep Date: **10/24/2012 13:01**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	0.05								
Surr: 1,2-Dichloroethane-d4	0.00894		0.01		89	70	130			
Surr: Toluene-d8	0.00995		0.01		100	70	130			
Surr: 4-Bromofluorobenzene	0.0093		0.01		93	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B/C**

File ID: **C:\HPCHEM\MS10\DATA\121024\12102403.D**

Batch ID: **MS10W1024B**

Analysis Date: **10/24/2012 11:34**

Sample ID: **GLCS MS10W1024B**

Units: **mg/L**

Run ID: **MSD_10_121024A**

Prep Date: **10/24/2012 11:34**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.355	0.05	0.4		89	70	130			
Surr: 1,2-Dichloroethane-d4	0.00918		0.01		92	70	130			
Surr: Toluene-d8	0.0102		0.01		102	70	130			
Surr: 4-Bromofluorobenzene	0.0101		0.01		101	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B/C**

File ID: **C:\HPCHEM\MS10\DATA\121024\12102411.D**

Batch ID: **MS10W1024B**

Analysis Date: **10/24/2012 14:47**

Sample ID: **12102201-01AGS**

Units: **mg/L**

Run ID: **MSD_10_121024A**

Prep Date: **10/24/2012 14:47**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.62	0.25	2	0	81	51	144			
Surr: 1,2-Dichloroethane-d4	0.0437		0.05		87	70	130			
Surr: Toluene-d8	0.0501		0.05		100	70	130			
Surr: 4-Bromofluorobenzene	0.0507		0.05		101	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015B/C**

File ID: **C:\HPCHEM\MS10\DATA\121024\12102412.D**

Batch ID: **MS10W1024B**

Analysis Date: **10/24/2012 15:09**

Sample ID: **12102201-01AGSD**

Units: **mg/L**

Run ID: **MSD_10_121024A**

Prep Date: **10/24/2012 15:09**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.94	0.25	2	0	97	51	144	1.624	17.7(29)	
Surr: 1,2-Dichloroethane-d4	0.0434		0.05		87	70	130			
Surr: Toluene-d8	0.0505		0.05		101	70	130			
Surr: 4-Bromofluorobenzene	0.0514		0.05		103	70	130			

Comments:

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Date:
29-Oct-12

QC Summary Report

Work Order:
12102201

Method Blank

Type **MBLK** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\121024\12102406.D**

Batch ID: **MS10W1024A**

Analysis Date: **10/24/2012 13:01**

Sample ID: **MBLK MS10W1024A**

Units: **µg/L**

Run ID: **MSD_10_121024A**

Prep Date: **10/24/2012 13:01**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	ND		1							
Chloromethane	ND		2							
Vinyl chloride	ND	0.5								
Chloroethane	ND		1							
Bromomethane	ND		2							
Trichlorofluoromethane	ND		10							
Acetone	ND		10							
1,1-Dichloroethene	ND		1							
Tertiary Butyl Alcohol (TBA)	ND		10							
Dichloromethane	ND		5							
Freon-113	ND		10							
Carbon disulfide	ND	2.5								
trans-1,2-Dichloroethene	ND		1							
Methyl tert-butyl ether (MTBE)	ND	0.5								
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	0.5								
1,1,1-Trichloroethane	ND		1							
1,1-Dichloropropene	ND		1							
Carbon tetrachloride	ND		1							
Benzene	ND	0.5								
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	10								
cis-1,3-Dichloropropene	ND	0.5								
trans-1,3-Dichloropropene	ND	0.5								
1,1,2-Trichloroethane	ND		1							
Toluene	ND	0.5								
1,3-Dichloropropane	ND		1							
2-Hexanone	ND	5								
Dibromochloromethane	ND		1							
1,2-Dibromoethane (EDB)	ND	2								
Tetrachloroethene	ND		1							
1,1,1,2-Tetrachloroethane	ND		1							
Chlorobenzene	ND		1							
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
Bromoform	ND		1							
Styrene	ND		1							
o-Xylene	ND	0.5								
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							



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Date:

29-Oct-12

QC Summary Report

Work Order:

12102201

n-Butylbenzene	ND	1				
1,2-Dibromo-3-chloropropane (DBCP)	ND	5				
1,2,4-Trichlorobenzene	ND	2				
Naphthalene	ND	10				
1,2,3-Trichlorobenzene	ND	2				
Xylenes, Total	ND	0.5				
Surr: 1,2-Dichloroethane-d4	8.94		10	89	70	130
Surr: Toluene-d8	9.95		10	100	70	130
Surr: 4-Bromofluorobenzene	9.3		10	93	70	130



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Date:
29-Oct-12

QC Summary Report

Work Order:
12102201

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\121024\12102404.D**

Batch ID: **MS10W1024A**

Analysis Date: **10/24/2012 11:55**

Sample ID: **LCS MS10W1024A**

Units: **µg/L**

Run ID: **MSD_10_121024A**

Prep Date: **10/24/2012 11:55**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	10.4	1	10		104	37	137			
Chloromethane	11.5	2	10		115	43	140			
Vinyl chloride	8.86	1	10		89	80	120			
Chloroethane	8.8	1	10		88	43	141			
Bromomethane	7.68	2	10		77	11	160			
Trichlorofluoromethane	8.03	1	10		80	40	148			
Acetone	222	10	200		111	36	171			
1,1-Dichloroethene	10.9	1	10		109	80	120			
Tertiary Butyl Alcohol (TBA)	109	10	100		109	44	156			
Dichloromethane	10.6	2	10		106	69	130			
Freon-113	10.4	1	10		104	70	137			
trans-1,2-Dichloroethene	11	1	10		110	70	130			
Methyl tert-butyl ether (MTBE)	9.02	0.5	10		90	65	140			
1,1-Dichloroethane	9.63	1	10		96	70	130			
2-Butanone (MEK)	205	10	200		103	23	182			
Di-isopropyl Ether (DIPE)	10.6	1	10		106	70	130			
cis-1,2-Dichloroethene	11.1	1	10		111	70	130			
Bromochloromethane	11	1	10		110	70	132			
Chloroform	9.52	1	10		95	80	120			
Ethyl Tertiary Butyl Ether (ETBE)	9.8	1	10		98	65	139			
2,2-Dichloropropane	10	1	10		100	68	154			
1,2-Dichloroethane	7.41	1	10		74	70	132			
1,1,1-Trichloroethane	9.04	1	10		90	70	135			
1,1-Dichloropropene	10.1	1	10		101	70	130			
Carbon tetrachloride	8.82	1	10		88	61	148			
Benzene	9.98	0.5	10		99.8	70	130			
Tertiary Amyl Methyl Ether (TAME)	9.31	1	10		93	68	134			
Dibromomethane	9.67	1	10		97	70	130			
1,2-Dichloropropane	8.35	1	10		84	80	120			
Trichloroethene	10.7	1	10		107	65	144			
Bromodichloromethane	9.46	1	10		95	50	157			
4-Methyl-2-pentanone (MIBK)	26.6	2.5	25		106	20	182			
cis-1,3-Dichloropropene	10.2	1	10		102	70	131			
trans-1,3-Dichloropropene	10.1	1	10		101	70	136			
1,1,2-Trichloroethane	10.8	1	10		108	70	130			
Toluene	11	0.5	10		110	80	120			
1,3-Dichloropropane	10.2	1	10		102	70	130			
2-Hexanone	129	5	100		129	20	182			
Dibromochloromethane	10.9	1	10		109	42	155			
1,2-Dibromoethane (EDB)	21.7	2	20		108	70	130			
Tetrachloroethene	11.9	1	10		119	70	130			
1,1,1,2-Tetrachloroethane	10.6	1	10		106	70	130			
Chlorobenzene	12.1	1	10		121	70	130			
Ethylbenzene	11.4	0.5	10		114	80	120			
m,p-Xylene	11.2	0.5	10		112	70	130			
Bromoform	10.8	1	10		108	68	143			
Styrene	12.3	1	10		123	64	153			
o-Xylene	11.3	0.5	10		113	70	130			
1,1,2,2-Tetrachloroethane	11.3	1	10		113	70	130			
1,2,3-Trichloropropane	19.6	2	20		98	70	130			
Isopropylbenzene	10.6	1	10		106	68	138			
Bromobenzene	11.2	1	10		112	70	130			
n-Propylbenzene	11.3	1	10		113	70	133			
4-Chlorotoluene	10.6	1	10		106	70	130			
2-Chlorotoluene	10.7	1	10		107	70	130			
1,3,5-Trimethylbenzene	9.95	1	10		100	70	134			
tert-Butylbenzene	10.5	1	10		105	55	147			
1,2,4-Trimethylbenzene	10	1	10		100	70	134			
sec-Butylbenzene	11.1	1	10		111	70	135			
1,3-Dichlorobenzene	10.7	1	10		107	70	130			
1,4-Dichlorobenzene	10.3	1	10		103	70	130			
4-Isopropyltoluene	10.6	1	10		106	70	132			
1,2-Dichlorobenzene	10.3	1	10		103	70	130			
n-Butylbenzene	10.7	1	10		107	70	134			
1,2-Dibromo-3-chloropropane (DBCP)	51.3	3	50		103	67	130			



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
29-Oct-12

QC Summary Report

Work Order:
12102201

1,2,4-Trichlorobenzene	9.24	2	10	92	67	132
Naphthalene	9.5	2	10	95	38	154
1,2,3-Trichlorobenzene	8.71	2	10	87	56	137
Xylenes, Total	22.5	0.5	20	112	70	130
Surr: 1,2-Dichloroethane-d4	10.6		10	106	70	130
Surr: Toluene-d8	10.5		10	105	70	130
Surr: 4-Bromofluorobenzene	10.2		10	102	70	130



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Date:
29-Oct-12

QC Summary Report

Work Order:
12102201

Sample Matrix Spike

Type MS Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\121024\12102409.D

Batch ID: MS10W1024A

Analysis Date: 10/24/2012 14:05

Sample ID: 12102201-01AMS

Units: µg/L

Run ID: MSD_10_121024A

Prep Date: 10/24/2012 14:05

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	32.9	2.5	50	0	66	21	138			
Chloromethane	44	10	50	0	88	23	144			
Vinyl chloride	34.8	2.5	50	0	70	49	136			
Chloroethane	35.2	2.5	50	0	70	21	159			
Bromomethane	19	10	50	0	38	10	174			
Trichlorofluoromethane	30.8	2.5	50	0	62	32	154			
Acetone	800	50	1000	0	80	10	171			
1,1-Dichloroethene	41.2	2.5	50	0	82	64	130			
Tertiary Butyl Alcohol (TBA)	399	25	500	0	80	41	157			
Dichloromethane	41	10	50	0	82	69	130			
Freon-113	38.1	2.5	50	0	76	55	141			
trans-1,2-Dichloroethene	43.2	2.5	50	0	86	63	130			
Methyl tert-butyl ether (MTBE)	31.9	1.3	50	0	64	47	150			
1,1-Dichloroethane	37.7	2.5	50	0	75	66	130			
2-Butanone (MEK)	770	50	1000	0	77	23	182			
Di-isopropyl Ether (DIPE)	40.4	2.5	50	0	81	59	139			
cis-1,2-Dichloroethene	43.2	2.5	50	0	86	70	130			
Bromochloromethane	41	2.5	50	0	82	70	132			
Chloroform	37.3	2.5	50	0	75	70	130			
Ethyl Tertiary Butyl Ether (ETBE)	36.8	2.5	50	0	74	59	182			
2,2-Dichloropropane	38.6	2.5	50	0	77	38	154			
1,2-Dichloroethane	28.6	2.5	50	0	57	65	134			M2
1,1,1-Trichloroethane	36.9	2.5	50	0	74	65	136			
1,1-Dichloropropene	39.4	2.5	50	0	79	68	132			
Carbon tetrachloride	34.6	2.5	50	0	69	58	148			
Benzene	39.5	1.3	50	0	79	59	138			
Tertiary Amyl Methyl Ether (TAME)	36.6	2.5	50	0	73	63	135			
Dibromomethane	38.2	2.5	50	0	76	70	130			
1,2-Dichloropropane	32.9	2.5	50	0	66	70	131			M2
Trichloroethene	42.4	2.5	50	0	85	65	144			
Bromodichloromethane	37.3	2.5	50	0	75	50	157			
4-Methyl-2-pentanone (MIBK)	102	13	125	0	81	20	182			
cis-1,3-Dichloropropene	36.8	2.5	50	0	74	63	131			
trans-1,3-Dichloropropene	37.8	2.5	50	0	76	65	136			
1,1,2-Trichloroethane	43.7	2.5	50	0	87	70	131			
Toluene	42.9	1.3	50	0	86	68	130			
1,3-Dichloropropane	38.7	2.5	50	0	77	70	130			
2-Hexanone	373	25	500	0	75	20	182			
Dibromochloromethane	41.6	2.5	50	0	83	42	155			
1,2-Dibromoethane (EDB)	83.6	5	100	0	84	70	130			
Tetrachloroethene	45.2	2.5	50	0	90	65	130			
1,1,1,2-Tetrachloroethane	41.6	2.5	50	0	83	70	130			
Chlorobenzene	48.5	2.5	50	0	97	70	130			
Ethylbenzene	46.1	1.3	50	0	92	68	130			
m,p-Xylene	44.9	1.3	50	0	90	68	131			
Bromoform	42.9	2.5	50	0	86	65	143			
Styrene	51	2.5	50	0	102	59	153			
o-Xylene	46.1	1.3	50	0	92	70	130			
1,1,2,2-Tetrachloroethane	47.8	2.5	50	0	96	67	130			
1,2,3-Trichloropropane	80.8	10	100	0	81	70	130			
Isopropylbenzene	41.9	2.5	50	0	84	55	138			
Bromobenzene	43.1	2.5	50	0	86	70	130			
n-Propylbenzene	43.8	2.5	50	0	88	67	133			
4-Chlorotoluene	42.2	2.5	50	0	84	70	130			
2-Chlorotoluene	42.7	2.5	50	0	85	70	130			
1,3,5-Trimethylbenzene	39.8	2.5	50	0	80	67	134			
tert-Butylbenzene	42.2	2.5	50	0	84	55	147			
1,2,4-Trimethylbenzene	39.8	2.5	50	0	80	65	135			
sec-Butylbenzene	44.2	2.5	50	0	88	68	135			
1,3-Dichlorobenzene	42.4	2.5	50	0	85	70	130			
1,4-Dichlorobenzene	41.1	2.5	50	0	82	70	130			
4-Isopropyltoluene	41.8	2.5	50	0	84	68	132			
1,2-Dichlorobenzene	41.8	2.5	50	0	84	70	130			
n-Butylbenzene	41.4	2.5	50	0	83	62	134			



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Date: 29-Oct-12	QC Summary Report						Work Order: 12102201
1,2-Dibromo-3-chloropropane (DBCP)	205	15	250	0	82	64	130
1,2,4-Trichlorobenzene	37.1	10	50	0	74	62	133
Naphthalene	39.1	10	50	0	78	32	166
1,2,3-Trichlorobenzene	35.2	10	50	0	70	55	138
Xylenes, Total	91	1.3	100	0	91	70	130
Surr: 1,2-Dichloroethane-d4	49.6		50		99	70	130
Surr: Toluene-d8	49.9		50		99.7	70	130
Surr: 4-Bromofluorobenzene	50		50		100	70	130



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QC Summary Report

Date:
29-Oct-12

Work Order:
12102201

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\121024\12102410.D**

Batch ID: **MS10W1024A**

Analysis Date: **10/24/2012 14:26**

Sample ID: **12102201-01AMSD**

Units: **µg/L**

Run ID: **MSD_10_121024A**

Prep Date: **10/24/2012 14:26**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	37	2.5	50	0	74	21	138	32.92	11.8(33)	
Chloromethane	49.6	10	50	0	99	23	144	44	11.9(27)	
Vinyl chloride	40.3	2.5	50	0	81	49	136	34.81	14.5(21)	
Chloroethane	38.4	2.5	50	0	77	21	159	35.22	8.5(40)	
Bromomethane	28.6	10	50	0	57	10	174	18.99	40.5(40)	R5
Trichlorofluoromethane	34.6	2.5	50	0	69	32	154	30.76	11.8(37)	
Acetone	897	50	1000	0	90	10	171	799.8	11.5(23)	
1,1-Dichloroethene	46.5	2.5	50	0	93	64	130	41.24	12.0(21)	
Tertiary Butyl Alcohol (TBA)	475	25	500	0	95	41	157	398.7	17.5(30)	
Dichloromethane	45.5	10	50	0	91	69	130	41	10.4(20)	
Freon-113	40.7	2.5	50	0	81	55	141	38.1	6.6(40)	
trans-1,2-Dichloroethene	48.3	2.5	50	0	97	63	130	43.22	11.0(20)	
Methyl tert-butyl ether (MTBE)	35.8	1.3	50	0	72	47	150	31.91	11.5(40)	
1,1-Dichloroethane	41.8	2.5	50	0	84	66	130	37.67	10.3(20)	
2-Butanone (MEK)	811	50	1000	0	81	23	182	770.4	5.2(22)	
Di-isopropyl Ether (DIPE)	44.5	2.5	50	0	89	59	139	40.39	9.8(20)	
cis-1,2-Dichloroethene	47.3	2.5	50	0	95	70	130	43.23	8.9(20)	
Bromochloromethane	46	2.5	50	0	92	70	132	40.97	11.6(20)	
Chloroform	41.4	2.5	50	0	83	70	130	37.32	10.4(20)	
Ethyl Tertiary Butyl Ether (ETBE)	40.5	2.5	50	0	81	59	182	36.78	9.7(40)	
2,2-Dichloropropane	42.3	2.5	50	0	85	38	154	38.61	9.1(22)	
1,2-Dichloroethane	31.7	2.5	50	0	63	65	134	28.61	10.2(20)	M2
1,1,1-Trichloroethane	40.5	2.5	50	0	81	65	136	36.86	9.5(20)	
1,1-Dichloropropene	43.8	2.5	50	0	88	68	132	39.37	10.6(20)	
Carbon tetrachloride	39	2.5	50	0	78	58	148	34.55	12.2(20)	
Benzene	43.7	1.3	50	0	87	59	138	39.46	10.2(21)	
Tertiary Amyl Methyl Ether (TAME)	40.6	2.5	50	0	81	63	135	36.62	10.3(40)	
Dibromomethane	42.9	2.5	50	0	86	70	130	38.21	11.7(20)	
1,2-Dichloropropane	35.7	2.5	50	0	71	70	131	32.86	8.3(20)	
Trichloroethene	47.2	2.5	50	0	94	65	144	42.4	10.7(20)	
Bromodichloromethane	41.2	2.5	50	0	82	50	157	37.31	9.8(20)	
4-Methyl-2-pentanone (MIBK)	112	13	125	0	90	20	182	101.8	10.0(20)	
cis-1,3-Dichloropropene	40.8	2.5	50	0	82	63	131	36.75	10.4(20)	
trans-1,3-Dichloropropene	41.9	2.5	50	0	84	65	136	37.82	10.3(20)	
1,1,2-Trichloroethane	48.1	2.5	50	0	96	70	131	43.66	9.7(20)	
Toluene	48.1	1.3	50	0	96	68	130	42.93	11.3(20)	
1,3-Dichloropropane	43	2.5	50	0	86	70	130	38.74	10.4(20)	
2-Hexanone	415	25	500	0	83	20	182	373.1	10.7(20)	
Dibromochloromethane	46.4	2.5	50	0	93	42	155	41.62	10.9(20)	
1,2-Dibromoethane (EDB)	93.5	5	100	0	93	70	130	83.59	11.2(20)	
Tetrachloroethene	51.4	2.5	50	0	103	65	130	45.23	12.8(20)	
1,1,1,2-Tetrachloroethane	45.8	2.5	50	0	92	70	130	41.6	9.6(20)	
Chlorobenzene	54.2	2.5	50	0	108	70	130	48.52	11.1(20)	
Ethylbenzene	50.8	1.3	50	0	102	68	130	46.09	9.8(20)	
m,p-Xylene	50.3	1.3	50	0	101	68	131	44.92	11.3(20)	
Bromoform	48.5	2.5	50	0	97	65	143	42.86	12.4(20)	
Styrene	57	2.5	50	0	114	59	153	51.02	11.1(37)	
o-Xylene	51.3	1.3	50	0	103	70	130	46.1	10.6(20)	
1,1,2,2-Tetrachloroethane	52.7	2.5	50	0	105	67	130	47.81	9.8(20)	
1,2,3-Trichloropropane	90.2	10	100	0	90	70	130	80.82	10.9(20)	
Isopropylbenzene	46.6	2.5	50	0	93	55	138	41.9	10.5(20)	
Bromobenzene	48.3	2.5	50	0	97	70	130	43.12	11.3(20)	
n-Propylbenzene	49.3	2.5	50	0	99	67	133	43.75	11.9(30)	
4-Chlorotoluene	47.5	2.5	50	0	95	70	130	42.19	11.8(20)	
2-Chlorotoluene	47.2	2.5	50	0	94	70	130	42.71	10.0(20)	
1,3,5-Trimethylbenzene	44.4	2.5	50	0	89	67	134	39.84	10.8(21)	
tert-Butylbenzene	46.6	2.5	50	0	93	55	147	42.23	9.8(20)	
1,2,4-Trimethylbenzene	44.5	2.5	50	0	89	65	135	39.79	11.2(25)	
sec-Butylbenzene	48.8	2.5	50	0	98	68	135	44.21	9.8(20)	
1,3-Dichlorobenzene	47.5	2.5	50	0	95	70	130	42.44	11.3(20)	
1,4-Dichlorobenzene	46.5	2.5	50	0	93	70	130	41.05	12.5(20)	
4-Isopropyltoluene	46.9	2.5	50	0	94	68	132	41.78	11.6(20)	
1,2-Dichlorobenzene	46.5	2.5	50	0	93	70	130	41.76	10.7(20)	
n-Butylbenzene	47.6	2.5	50	0	95	62	134	41.39	13.9(21)	



Alpha Analytical, Inc.

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QC Summary Report

Date:

29-Oct-12

Work Order:

12102201

1,2-Dibromo-3-chloropropane (DBCP)	228	15	250	0	91	64	130	205.4	10.4(20)
1,2,4-Trichlorobenzene	42.2	10	50	0	84	62	133	37.11	12.8(29)
Naphthalene	44.6	10	50	0	89	32	166	39.14	13.0(40)
1,2,3-Trichlorobenzene	40.7	10	50	0	81	55	138	35.21	14.5(36)
Xylenes, Total	102	1.3	100	0	102	70	130	91.02	10.9(20)
Surr: 1,2-Dichloroethane-d4	49.9		50		99.9	70	130		
Surr: Toluene-d8	51.6		50		103	70	130		
Surr: 4-Bromofluorobenzene	50.3		50		101	70	130		

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M2 = Matrix spike recovery was low, the method control sample recovery was acceptable.

R5 = MS/MSD RPD exceeded the laboratory control limit. Recovery met acceptance criteria.

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

CA

WorkOrder : CHHL12102201
Report Due By : 5:00 PM On : 31-Oct-12

Client:
 CH2M Hill
 1000 Wilshire Boulevard
 21st Floor
 Los Angeles, CA 90017

Report Attention	Phone Number	E-Mail Address
Daniel Jablonski	(213) 228-8271 x	daniel.jablonski@ch2m.com
Matthew Mayry	(213) 228-8271 x	matthew.mayry@ch2m.com

EDD Required : Yes

Sampled by : Matt Eifele

PO :
 Client's COC # : none Job : KMEP DFSP Norwalk

Cooler Temp	Samples Received	Date Printed
1 °C	20-Oct-12	22-Oct-12

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Date	Alpha	Sub	TAT	Requested Tests						Sample Remarks		
							TPHE_W	TPH/P_W	VOC_W						
CHH12102201-01A	MW-12	AQ	10/18/12 09:05	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12102201-02A	GMW-27	AQ	10/18/12 08:20	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12102201-03A	PZ-5	AQ	10/18/12 08:54	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12102201-04A	GWR-1	AQ	10/18/12 10:09	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12102201-05A	MW-SF-1	AQ	10/18/12 10:00	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12102201-06A	GMW-36	AQ	10/18/12 12:35	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12102201-07A	GMW-O-14	AQ	10/18/12 14:30	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12102201-08A	GMW-O-15	AQ	10/18/12 13:10	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						

Comments: Security seals intact. Frozen ice. Saturday delivery. Samples received 10/20/12 kept cold and secure until login on 10/22/12. Analysts: 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>Elizabeth Adcox</i>	Elizabeth Adcox	Alpha Analytical, Inc.	10-22-12 8:47

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

CA

WorkOrder : CHHL12102201

Report Due By : 5:00 PM On : 31-Oct-12

Client:
 CH2M Hill
 1000 Wilshire Boulevard
 21st Floor
 Los Angeles, CA 90017

Report Attention	Phone Number	Email Address
Daniel Jablonski	(213) 228-8271 x	daniel.jablonski@ch2m.com
Matthew Mayry	(213) 228-8271 x	matthew.mayry@ch2m.com

EDD Required : Yes

Sampled by : Matt Eifele

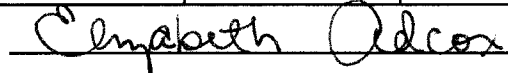
PO :
 Client's COC # : none Job : KMEP DFSP Norwalk

Cooler Temp	Samples Received	Date Printed
1 °C	20-Oct-12	22-Oct-12

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Date	Alpha	Sub	TAT	Requested Tests						Sample Remarks		
							TPHE_W	TPHE_P	VOC_W						
CHH12102201-09A	MW-18 (MID)	AQ	10/18/12 11:50	4	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						1 HCl voa received broken.
CHH12102201-10A	MW-SF-11	AQ	10/18/12 11:05	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12102201-11A	MW-SF-14	AQ	10/18/12 12:00	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12102201-12A	GMW-22	AQ	10/18/12 13:05	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12102201-13A	DUP-4	AQ	10/18/12 00:00	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12102201-14A	DUP-6	AQ	10/18/12 00:00	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12102201-15A	DUP-7	AQ	10/18/12 00:00	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12102201-16A	EB-1	AQ	10/18/12 10:10	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						

Comments: Security seals intact. Frozen ice. Saturday delivery. Samples received 10/20/12 kept cold and secure until login on 10/22/12. Analysts: 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:		Elizabeth Adcox	Alpha Analytical, Inc.	10-22-12 8:47

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.
 The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.
 Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

CHAIN-OF-CUSTODY RECORD

CA

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : CHHL12102201
Report Due By : 5:00 PM On : 31-Oct-12

Client:
 CH2M Hill
 1000 Wilshire Boulevard
 21st Floor
 Los Angeles, CA 90017

Report Attention	Phone Number	EMail Address
Daniel Jablonski	(213) 228-8271 x	daniel.jablonski@ch2m.com
Matthew Mayry	(213) 228-8271 x	matthew.mayry@ch2m.com

EDD Required : Yes

Sampled by : Matt Eifele

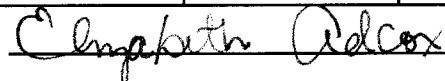
PO :
 Client's COC # : none Job : KMEP DFSP Norwalk

Cooler Temp	Samples Received	Date Printed
1 °C	20-Oct-12	22-Oct-12

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Date	Alpha	Sub	TAT	Requested Tests						Sample Remarks		
							TPHE_W	TPH/P_W	VOC_W						
CHH12102201-17A	EB-2	AQ	10/18/12 13:15	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12102201-18A	TB-1	AQ	10/18/12 08:00	2	0	7			TPHE(0.05) +Vinyl acetate						2 Reno Trip Blanks: (1) 10/5/12 (1) 9/13/12

Comments: Security seals intact. Frozen ice. Saturday delivery. Samples received 10/20/12 kept cold and secure until login on 10/22/12. Analysts: 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:		Elizabeth Adcox	Alpha Analytical, Inc.	10-22-12 8:48

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) 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 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-12	10-18-12	0905	AQ	5	HCL	vous	X	X									CHH1210220101
GM-27		0820		5			X	X									-02
P2-5		0854		5			X	X									-03
GWR-1		1009		5			X	X									-04
MW-SF-1		1000		5			X	X									-05
GM-36		1235		5			X	X									-06
GM-0-14		1430		5			X	X									-07
GM-0-15		1310		5			X	X									-08
Mw-18 (MWD)		1150		5			X	X									-09
Mw-SF-11		1105		5			X	X									-10

SAMPLING COMPLETED DATE 10-18-12 TIME 1500 SAMPLING PERFORMED BY Matt E. Foley RESULTS NEEDED NO LATER THAN Standard

RELEASED BY [Signature] TIME 1600 RECEIVED BY Nicole (sc) DATE 10/18/12 TIME 1600

RELEASED BY Nicole (sc) TIME 1710 RECEIVED BY [Signature] DATE 10/19/12 TIME 1710

RELEASED BY [Signature] TIME 1710 RECEIVED BY Cynthia Adcox DATE 10-22-12 TIME 8:47

SHIPPED VIA _____ TIME SENT _____ COOLER # _____



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135
Date Received : 10/19/12

Job: KMEP DFSP Norwalk

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed	
Client ID :	PW-3					
Lab ID :	CHH12101904-01A	TPH-E (DRO)	ND	0.050 mg/L	10/19/12	10/20/12
Date Sampled	10/17/12 08:10	Surr: Nonane	118	(49-145) %REC	10/19/12	10/20/12
		TPH-P (GRO)	ND	0.050 mg/L	10/25/12	10/25/12
		Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC	10/25/12	10/25/12
		Surr: Toluene-d8	100	(70-130) %REC	10/25/12	10/25/12
		Surr: 4-Bromofluorobenzene	94	(70-130) %REC	10/25/12	10/25/12
Client ID :	GMW-O-16					
Lab ID :	CHH12101904-02A	TPH-E (DRO)	ND	0.050 mg/L	10/19/12	10/20/12
Date Sampled	10/17/12 08:55	Surr: Nonane	119	(49-145) %REC	10/19/12	10/20/12
		TPH-P (GRO)	ND	0.050 mg/L	10/25/12	10/25/12
		Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC	10/25/12	10/25/12
		Surr: Toluene-d8	99	(70-130) %REC	10/25/12	10/25/12
		Surr: 4-Bromofluorobenzene	93	(70-130) %REC	10/25/12	10/25/12
Client ID :	GMW-38					
Lab ID :	CHH12101904-03A	TPH-E (DRO)	ND	0.050 mg/L	10/19/12	10/20/12
Date Sampled	10/17/12 09:35	Surr: Nonane	95	(49-145) %REC	10/19/12	10/20/12
		TPH-P (GRO)	ND	0.050 mg/L	10/25/12	10/25/12
		Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	10/25/12	10/25/12
		Surr: Toluene-d8	100	(70-130) %REC	10/25/12	10/25/12
		Surr: 4-Bromofluorobenzene	94	(70-130) %REC	10/25/12	10/25/12
Client ID :	MW-6					
Lab ID :	CHH12101904-04A	TPH-E (DRO)	ND	0.050 mg/L	10/19/12	10/20/12
Date Sampled	10/17/12 10:08	Surr: Nonane	105	(49-145) %REC	10/19/12	10/20/12
		TPH-P (GRO)	ND	0.050 mg/L	10/25/12	10/25/12
		Surr: 1,2-Dichloroethane-d4	103	(70-130) %REC	10/25/12	10/25/12
		Surr: Toluene-d8	100	(70-130) %REC	10/25/12	10/25/12
		Surr: 4-Bromofluorobenzene	93	(70-130) %REC	10/25/12	10/25/12
Client ID :	MW-7					
Lab ID :	CHH12101904-05A	TPH-E (DRO)	ND	0.050 mg/L	10/19/12	10/20/12
Date Sampled	10/17/12 08:39	Surr: Nonane	98	(49-145) %REC	10/19/12	10/20/12
		TPH-P (GRO)	ND	0.050 mg/L	10/25/12	10/25/12
		Surr: 1,2-Dichloroethane-d4	104	(70-130) %REC	10/25/12	10/25/12
		Surr: Toluene-d8	99	(70-130) %REC	10/25/12	10/25/12
		Surr: 4-Bromofluorobenzene	95	(70-130) %REC	10/25/12	10/25/12
Client ID :	MW-19 MID					
Lab ID :	CHH12101904-06A	TPH-E (DRO)	0.077	0.050 mg/L	10/19/12	10/20/12
Date Sampled	10/17/12 08:07	Surr: Nonane	95	(49-145) %REC	10/19/12	10/20/12
		TPH-P (GRO)	ND	0.050 mg/L	10/25/12	10/25/12
		Surr: 1,2-Dichloroethane-d4	106	(70-130) %REC	10/25/12	10/25/12
		Surr: Toluene-d8	97	(70-130) %REC	10/25/12	10/25/12
		Surr: 4-Bromofluorobenzene	97	(70-130) %REC	10/25/12	10/25/12



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Client ID : MW-20 MID					
Lab ID :	CHH12101904-07A	TPH-E (DRO)	ND	0.050 mg/L	10/19/12 10/20/12
Date Sampled	10/17/12 09:38	Surr: Nonane	79	(49-145) %REC	10/19/12 10/20/12
		TPH-P (GRO)	ND	0.050 mg/L	10/25/12 10/25/12
		Surr: 1,2-Dichloroethane-d4	108	(70-130) %REC	10/25/12 10/25/12
		Surr: Toluene-d8	102	(70-130) %REC	10/25/12 10/25/12
		Surr: 4-Bromofluorobenzene	95	(70-130) %REC	10/25/12 10/25/12
Client ID : WCW-7					
Lab ID :	CHH12101904-08A	TPH-E (DRO)	ND	0.050 mg/L	10/19/12 10/20/12
Date Sampled	10/17/12 11:00	Surr: Nonane	107	(49-145) %REC	10/19/12 10/20/12
		TPH-P (GRO)	ND	0.050 mg/L	10/25/12 10/25/12
		Surr: 1,2-Dichloroethane-d4	112	(70-130) %REC	10/25/12 10/25/12
		Surr: Toluene-d8	99	(70-130) %REC	10/25/12 10/25/12
		Surr: 4-Bromofluorobenzene	91	(70-130) %REC	10/25/12 10/25/12
Client ID : MW-8					
Lab ID :	CHH12101904-09A	TPH-E (DRO)	ND	0.050 mg/L	10/19/12 10/20/12
Date Sampled	10/17/12 12:13	Surr: Nonane	107	(49-145) %REC	10/19/12 10/20/12
		TPH-P (GRO)	ND	0.050 mg/L	10/25/12 10/25/12
		Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC	10/25/12 10/25/12
		Surr: Toluene-d8	99	(70-130) %REC	10/25/12 10/25/12
		Surr: 4-Bromofluorobenzene	95	(70-130) %REC	10/25/12 10/25/12
Client ID : GMW-39					
Lab ID :	CHH12101904-10A	TPH-E (DRO)	ND	0.050 mg/L	10/19/12 10/20/12
Date Sampled	10/17/12 10:20	Surr: Nonane	103	(49-145) %REC	10/19/12 10/20/12
		TPH-P (GRO)	ND	0.050 mg/L	10/25/12 10/25/12
		Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC	10/25/12 10/25/12
		Surr: Toluene-d8	101	(70-130) %REC	10/25/12 10/25/12
		Surr: 4-Bromofluorobenzene	90	(70-130) %REC	10/25/12 10/25/12
Client ID : GMW-SF-9					
Lab ID :	CHH12101904-11A	TPH-E (DRO)	ND	0.050 mg/L	10/19/12 10/20/12
Date Sampled	10/17/12 10:40	Surr: Nonane	104	(49-145) %REC	10/19/12 10/20/12
		TPH-P (GRO)	ND	0.050 mg/L	10/25/12 10/25/12
		Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	10/25/12 10/25/12
		Surr: Toluene-d8	99	(70-130) %REC	10/25/12 10/25/12
		Surr: 4-Bromofluorobenzene	91	(70-130) %REC	10/25/12 10/25/12
Client ID : GMW-SF-10					
Lab ID :	CHH12101904-12A	TPH-E (DRO)	ND	0.050 mg/L	10/19/12 10/20/12
Date Sampled	10/17/12 11:30	Surr: Nonane	123	(49-145) %REC	10/19/12 10/20/12
		TPH-P (GRO)	ND	0.050 mg/L	10/25/12 10/25/12
		Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC	10/25/12 10/25/12
		Surr: Toluene-d8	98	(70-130) %REC	10/25/12 10/25/12
		Surr: 4-Bromofluorobenzene	95	(70-130) %REC	10/25/12 10/25/12
Client ID : GMW-14					
Lab ID :	CHH12101904-13A	TPH-E (DRO)	0.15	0.050 mg/L	10/19/12 10/20/12
Date Sampled	10/17/12 13:35	Surr: Nonane	109	(49-145) %REC	10/19/12 10/20/12
		TPH-P (GRO)	ND	0.050 mg/L	10/25/12 10/25/12
		Surr: 1,2-Dichloroethane-d4	95	(70-130) %REC	10/25/12 10/25/12
		Surr: Toluene-d8	99	(70-130) %REC	10/25/12 10/25/12
		Surr: 4-Bromofluorobenzene	95	(70-130) %REC	10/25/12 10/25/12
Client ID : PZ-10					
Lab ID :	CHH12101904-14A	TPH-E (DRO)	0.97	0.050 mg/L	10/19/12 10/20/12
Date Sampled	10/17/12 13:25	Surr: Nonane	97	(49-145) %REC	10/19/12 10/20/12
		TPH-P (GRO)	ND	0.50 mg/L	10/25/12 10/25/12
		Surr: 1,2-Dichloroethane-d4	98	(70-130) %REC	10/25/12 10/25/12
		Surr: Toluene-d8	101	(70-130) %REC	10/25/12 10/25/12
		Surr: 4-Bromofluorobenzene	99	(70-130) %REC	10/25/12 10/25/12



Alpha Analytical, Inc.

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Client ID : GMW-1

Lab ID :	CHH12101904-15A	TPH-E (DRO)	0.88		0.050 mg/L	10/19/12	10/21/12
Date Sampled	10/17/12 14:20	Surr: Nonane	99		(49-145) %REC	10/19/12	10/21/12
		TPH-P (GRO)	ND	O	0.50 mg/L	10/25/12	10/25/12
		Surr: 1,2-Dichloroethane-d4	95		(70-130) %REC	10/25/12	10/25/12
		Surr: Toluene-d8	99		(70-130) %REC	10/25/12	10/25/12
		Surr: 4-Bromofluorobenzene	100		(70-130) %REC	10/25/12	10/25/12

Client ID : MW-9

Lab ID :	CHH12101904-16A	TPH-E (DRO)	2.5		0.050 mg/L	10/19/12	10/21/12
Date Sampled	10/17/12 14:30	Surr: Nonane	87		(49-145) %REC	10/19/12	10/21/12
		TPH-P (GRO)	1.2		0.50 mg/L	10/29/12	10/29/12
		Surr: 1,2-Dichloroethane-d4	99		(70-130) %REC	10/29/12	10/29/12
		Surr: Toluene-d8	99		(70-130) %REC	10/29/12	10/29/12
		Surr: 4-Bromofluorobenzene	99		(70-130) %REC	10/29/12	10/29/12

Client ID : DUP-2

Lab ID :	CHH12101904-17A	TPH-E (DRO)	ND	X	0.10 mg/L	10/19/12	10/21/12
Date Sampled	10/17/12 00:00	Surr: Nonane	114		(49-145) %REC	10/19/12	10/21/12
		TPH-P (GRO)	ND		0.050 mg/L	10/29/12	10/29/12
		Surr: 1,2-Dichloroethane-d4	101		(70-130) %REC	10/29/12	10/29/12
		Surr: Toluene-d8	101		(70-130) %REC	10/29/12	10/29/12
		Surr: 4-Bromofluorobenzene	94		(70-130) %REC	10/29/12	10/29/12

Client ID : DUP-3

Lab ID :	CHH12101904-18A	TPH-E (DRO)	ND		0.050 mg/L	10/19/12	10/21/12
Date Sampled	10/17/12 00:00	Surr: Nonane	117		(49-145) %REC	10/19/12	10/21/12
		TPH-P (GRO)	ND		0.050 mg/L	10/29/12	10/29/12
		Surr: 1,2-Dichloroethane-d4	103		(70-130) %REC	10/29/12	10/29/12
		Surr: Toluene-d8	96		(70-130) %REC	10/29/12	10/29/12
		Surr: 4-Bromofluorobenzene	96		(70-130) %REC	10/29/12	10/29/12

Client ID : EB-1

Lab ID :	CHH12101904-19A	TPH-E (DRO)	ND		0.050 mg/L	10/19/12	10/21/12
Date Sampled	10/17/12 13:45	Surr: Nonane	104		(49-145) %REC	10/19/12	10/21/12
		TPH-P (GRO)	ND		0.050 mg/L	10/29/12	10/29/12
		Surr: 1,2-Dichloroethane-d4	105		(70-130) %REC	10/29/12	10/29/12
		Surr: Toluene-d8	101		(70-130) %REC	10/29/12	10/29/12
		Surr: 4-Bromofluorobenzene	97		(70-130) %REC	10/29/12	10/29/12

Client ID : EB-2

Lab ID :	CHH12101904-20A	TPH-E (DRO)	ND		0.050 mg/L	10/19/12	10/21/12
Date Sampled	10/17/12 13:35	Surr: Nonane	103		(49-145) %REC	10/19/12	10/21/12
		TPH-P (GRO)	ND		0.050 mg/L	10/29/12	10/29/12
		Surr: 1,2-Dichloroethane-d4	108		(70-130) %REC	10/29/12	10/29/12
		Surr: Toluene-d8	99		(70-130) %REC	10/29/12	10/29/12
		Surr: 4-Bromofluorobenzene	93		(70-130) %REC	10/29/12	10/29/12

Diesel Range Organics (DRO) C13-C22

Gasoline Range Organics (GRO) C4-C13

O = Reporting Limits were increased due to sample foaming.

X = Reporting Limits were increased due to sample matrix interferences.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer

Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered in any way.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

10/30/12

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101904-01A
Client I.D. Number: PW-3

Sampled: 10/17/12 08:10
Received: 10/19/12
Extracted: 10/25/12
Analyzed: 10/25/12

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	100	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	94	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101904-02A
Client I.D. Number: GMW-O-16

Sampled: 10/17/12 08:55
Received: 10/19/12
Extracted: 10/25/12
Analyzed: 10/25/12

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	0.89	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	0.89	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	0.70	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	1.2	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	93	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101904-03A
Client I.D. Number: GMW-38

Sampled: 10/17/12 09:35
Received: 10/19/12
Extracted: 10/25/12
Analyzed: 10/25/12

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	100	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	94	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101904-04A
Client I.D. Number: MW-6

Sampled: 10/17/12 10:08
Received: 10/19/12
Extracted: 10/25/12
Analyzed: 10/25/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	103	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	100	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	93	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101904-05A
Client I.D. Number: MW-7

Sampled: 10/17/12 08:39
Received: 10/19/12
Extracted: 10/25/12
Analyzed: 10/25/12

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	1.0	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	104	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	95	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101904-06A
Client I.D. Number: MW-19 MID

Sampled: 10/17/12 08:07
Received: 10/19/12
Extracted: 10/25/12
Analyzed: 10/25/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	360	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	1.1	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	28	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	5.3	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	106	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	97	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	97	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101904-07A
Client I.D. Number: MW-20 MID

Sampled: 10/17/12 09:38
Received: 10/19/12
Extracted: 10/25/12
Analyzed: 10/25/12

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	12	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	7.6	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	6.8	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	6.8	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	108	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	102	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	95	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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Report Date

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101904-08A
Client I.D. Number: WCW-7

Sampled: 10/17/12 11:00
Received: 10/19/12
Extracted: 10/25/12
Analyzed: 10/25/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	0.56	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	1.5	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	9.2	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	112	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	91	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101904-09A
Client I.D. Number: MW-8

Sampled: 10/17/12 12:13
Received: 10/19/12
Extracted: 10/25/12
Analyzed: 10/25/12

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	220	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	95	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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10/30/12

Report Date

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101904-10A
Client I.D. Number: GMW-39

Sampled: 10/17/12 10:20
Received: 10/19/12
Extracted: 10/25/12
Analyzed: 10/25/12

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	47	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	101	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	90	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101904-11A
Client I.D. Number: GMW-SF-9

Sampled: 10/17/12 10:40
Received: 10/19/12
Extracted: 10/25/12
Analyzed: 10/25/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethane	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	270	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	91	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101904-12A
Client I.D. Number: GMW-SF-10

Sampled: 10/17/12 11:30
Received: 10/19/12
Extracted: 10/25/12
Analyzed: 10/25/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	98	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	95	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101904-13A
Client I.D. Number: GMW-14

Sampled: 10/17/12 13:35
Received: 10/19/12
Extracted: 10/25/12
Analyzed: 10/25/12

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	95	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	95	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101904-14A
Client I.D. Number: PZ-10

Sampled: 10/17/12 13:25
Received: 10/19/12
Extracted: 10/25/12
Analyzed: 10/25/12

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	5.0 µg/L	45 Chlorobenzene	ND	5.0 µg/L
2 Chloromethane	ND	20 µg/L	46 Ethylbenzene	ND	2.5 µg/L
3 Vinyl chloride	ND	5.0 µg/L	47 m,p-Xylene	ND	2.5 µg/L
4 Chloroethane	ND	5.0 µg/L	48 Bromoform	ND	5.0 µg/L
5 Bromomethane	ND	20 µg/L	49 Xylenes, Total	ND	2.5 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	5.0 µg/L
7 Acetone	ND	100 µg/L	51 o-Xylene	ND	2.5 µg/L
8 1,1-Dichloroethane	ND	5.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	5.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	50 µg/L	53 1,2,3-Trichloropropane	ND	20 µg/L
10 Dichloromethane	ND	20 µg/L	54 Isopropylbenzene	6.5	5.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	5.0 µg/L
12 Carbon disulfide	ND	25 µg/L	56 n-Propylbenzene	ND	5.0 µg/L
13 trans-1,2-Dichloroethene	ND	5.0 µg/L	57 4-Chlorotoluene	ND	5.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	2.5 µg/L	58 2-Chlorotoluene	ND	5.0 µg/L
15 1,1-Dichloroethane	ND	5.0 µg/L	59 1,3,5-Trimethylbenzene	ND	5.0 µg/L
16 Vinyl acetate	ND	500 µg/L	60 tert-Butylbenzene	ND	5.0 µg/L
17 2-Butanone (MEK)	ND	100 µg/L	61 1,2,4-Trimethylbenzene	ND	5.0 µg/L
18 Di-isopropyl Ether (DIPE)	6.4	5.0 µg/L	62 sec-Butylbenzene	ND	5.0 µg/L
19 cis-1,2-Dichloroethene	ND	5.0 µg/L	63 1,3-Dichlorobenzene	ND	5.0 µg/L
20 Bromochloromethane	ND	5.0 µg/L	64 1,4-Dichlorobenzene	ND	5.0 µg/L
21 Chloroform	ND	5.0 µg/L	65 4-Isopropyltoluene	ND	5.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	5.0 µg/L	66 1,2-Dichlorobenzene	ND	5.0 µg/L
23 2,2-Dichloropropane	ND	5.0 µg/L	67 n-Butylbenzene	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	5.0 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	30 µg/L
25 1,1,1-Trichloroethane	ND	5.0 µg/L	69 1,2,4-Trichlorobenzene	ND	20 µg/L
26 1,1-Dichloropropene	ND	5.0 µg/L	70 Naphthalene	ND	20 µg/L
27 Carbon tetrachloride	ND	5.0 µg/L	71 1,2,3-Trichlorobenzene	ND	20 µg/L
28 Benzene	32	2.5 µg/L	72 Surr: 1,2-Dichloroethane-d4	98	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	5.0 µg/L	73 Surr: Toluene-d8	101	(70-130) %REC
30 Dibromomethane	ND	5.0 µg/L	74 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
31 1,2-Dichloropropane	ND	5.0 µg/L			
32 Trichloroethene	ND	5.0 µg/L			
33 Bromodichloromethane	ND	5.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	25 µg/L			
35 cis-1,3-Dichloropropene	ND	5.0 µg/L			
36 trans-1,3-Dichloropropene	ND	5.0 µg/L			
37 1,1,2-Trichloroethane	ND	5.0 µg/L			
38 Toluene	ND	2.5 µg/L			
39 1,3-Dichloropropane	ND	5.0 µg/L			
40 2-Hexanone	88	50 µg/L			
41 Dibromochloromethane	ND	5.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	10 µg/L			
43 Tetrachloroethene	ND	5.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	5.0 µg/L			

Reporting Limits were increased due to sample foaming.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101904-15A
Client I.D. Number: GMW-1

Sampled: 10/17/12 14:20
Received: 10/19/12
Extracted: 10/25/12
Analyzed: 10/25/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	5.0 µg/L	45 Chlorobenzene	ND	5.0 µg/L
2 Chloromethane	ND	20 µg/L	46 Ethylbenzene	ND	2.5 µg/L
3 Vinyl chloride	ND	5.0 µg/L	47 m,p-Xylene	ND	2.5 µg/L
4 Chloroethane	ND	5.0 µg/L	48 Bromoform	ND	5.0 µg/L
5 Bromomethane	ND	20 µg/L	49 Xylenes, Total	ND	2.5 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	5.0 µg/L
7 Acetone	ND	100 µg/L	51 o-Xylene	ND	2.5 µg/L
8 1,1-Dichloroethene	ND	5.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	5.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	50 µg/L	53 1,2,3-Trichloropropane	ND	20 µg/L
10 Dichloromethane	ND	20 µg/L	54 Isopropylbenzene	ND	5.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	5.0 µg/L
12 Carbon disulfide	ND	25 µg/L	56 n-Propylbenzene	ND	5.0 µg/L
13 trans-1,2-Dichloroethene	ND	5.0 µg/L	57 4-Chlorotoluene	ND	5.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	2.5 µg/L	58 2-Chlorotoluene	ND	5.0 µg/L
15 1,1-Dichloroethane	ND	5.0 µg/L	59 1,3,5-Trimethylbenzene	ND	5.0 µg/L
16 Vinyl acetate	ND	500 µg/L	60 tert-Butylbenzene	ND	5.0 µg/L
17 2-Butanone (MEK)	ND	100 µg/L	61 1,2,4-Trimethylbenzene	ND	5.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	5.0 µg/L	62 sec-Butylbenzene	ND	5.0 µg/L
19 cis-1,2-Dichloroethene	ND	5.0 µg/L	63 1,3-Dichlorobenzene	ND	5.0 µg/L
20 Bromochloromethane	ND	5.0 µg/L	64 1,4-Dichlorobenzene	ND	5.0 µg/L
21 Chloroform	ND	5.0 µg/L	65 4-Isopropyltoluene	ND	5.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	5.0 µg/L	66 1,2-Dichlorobenzene	ND	5.0 µg/L
23 2,2-Dichloropropane	ND	5.0 µg/L	67 n-Butylbenzene	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	5.0 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	30 µg/L
25 1,1,1-Trichloroethane	ND	5.0 µg/L	69 1,2,4-Trichlorobenzene	ND	20 µg/L
26 1,1-Dichloropropene	ND	5.0 µg/L	70 Naphthalene	ND	20 µg/L
27 Carbon tetrachloride	ND	5.0 µg/L	71 1,2,3-Trichlorobenzene	ND	20 µg/L
28 Benzene	ND	2.5 µg/L	72 Surr: 1,2-Dichloroethane-d4	95	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	5.0 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	5.0 µg/L	74 Surr: 4-Bromofluorobenzene	100	(70-130) %REC
31 1,2-Dichloropropane	ND	5.0 µg/L			
32 Trichloroethene	ND	5.0 µg/L			
33 Bromodichloromethane	ND	5.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	25 µg/L			
35 cis-1,3-Dichloropropene	ND	5.0 µg/L			
36 trans-1,3-Dichloropropene	ND	5.0 µg/L			
37 1,1,2-Trichloroethane	ND	5.0 µg/L			
38 Toluene	ND	2.5 µg/L			
39 1,3-Dichloropropane	ND	5.0 µg/L			
40 2-Hexanone	ND	50 µg/L			
41 Dibromochloromethane	ND	5.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	10 µg/L			
43 Tetrachloroethene	ND	5.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	5.0 µg/L			

Reporting Limits were increased due to sample foaming.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101904-16A
Client I.D. Number: MW-9

Sampled: 10/17/12 14:30
Received: 10/19/12
Extracted: 10/29/12
Analyzed: 10/29/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	5.0 µg/L	45 Chlorobenzene	ND	5.0 µg/L
2 Chloromethane	ND	20 µg/L	46 Ethylbenzene	ND	2.5 µg/L
3 Vinyl chloride	ND	5.0 µg/L	47 m,p-Xylene	ND	2.5 µg/L
4 Chloroethane	ND	5.0 µg/L	48 Bromoform	ND	5.0 µg/L
5 Bromomethane	ND	20 µg/L	49 Xylenes, Total	ND	2.5 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	5.0 µg/L
7 Acetone	ND	100 µg/L	51 o-Xylene	ND	2.5 µg/L
8 1,1-Dichloroethene	ND	5.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	5.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	50 µg/L	53 1,2,3-Trichloropropane	ND	20 µg/L
10 Dichloromethane	ND	20 µg/L	54 Isopropylbenzene	31	5.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	5.0 µg/L
12 Carbon disulfide	ND	25 µg/L	56 n-Propylbenzene	24	5.0 µg/L
13 trans-1,2-Dichloroethene	ND	5.0 µg/L	57 4-Chlorotoluene	ND	5.0 µg/L
14 Methyl tert-butyl ether (MTBE)	3.7	2.5 µg/L	58 2-Chlorotoluene	ND	5.0 µg/L
15 1,1-Dichloroethane	ND	5.0 µg/L	59 1,3,5-Trimethylbenzene	ND	5.0 µg/L
16 Vinyl acetate	ND	500 µg/L	60 tert-Butylbenzene	ND	5.0 µg/L
17 2-Butanone (MEK)	ND	100 µg/L	61 1,2,4-Trimethylbenzene	ND	5.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	5.0 µg/L	62 sec-Butylbenzene	7.9	5.0 µg/L
19 cis-1,2-Dichloroethene	ND	5.0 µg/L	63 1,3-Dichlorobenzene	ND	5.0 µg/L
20 Bromochloromethane	ND	5.0 µg/L	64 1,4-Dichlorobenzene	ND	5.0 µg/L
21 Chloroform	ND	5.0 µg/L	65 4-Isopropyltoluene	ND	5.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	5.0 µg/L	66 1,2-Dichlorobenzene	ND	5.0 µg/L
23 2,2-Dichloropropane	ND	5.0 µg/L	67 n-Butylbenzene	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	5.0 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	30 µg/L
25 1,1,1-Trichloroethane	ND	5.0 µg/L	69 1,2,4-Trichlorobenzene	ND	20 µg/L
26 1,1-Dichloropropene	ND	5.0 µg/L	70 Naphthalene	68	20 µg/L
27 Carbon tetrachloride	ND	5.0 µg/L	71 1,2,3-Trichlorobenzene	ND	20 µg/L
28 Benzene	9.1	2.5 µg/L	72 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	5.0 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	5.0 µg/L	74 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
31 1,2-Dichloropropane	ND	5.0 µg/L			
32 Trichloroethene	ND	5.0 µg/L			
33 Bromodichloromethane	ND	5.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	25 µg/L			
35 cis-1,3-Dichloropropene	ND	5.0 µg/L			
36 trans-1,3-Dichloropropene	ND	5.0 µg/L			
37 1,1,2-Trichloroethane	ND	5.0 µg/L			
38 Toluene	ND	2.5 µg/L			
39 1,3-Dichloropropane	ND	5.0 µg/L			
40 2-Hexanone	ND	50 µg/L			
41 Dibromochloromethane	ND	5.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	10 µg/L			
43 Tetrachloroethene	ND	5.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	5.0 µg/L			

Reporting Limits were increased due to sample foaming.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101904-17A
Client I.D. Number: DUP-2

Sampled: 10/17/12 00:00
Received: 10/19/12
Extracted: 10/29/12
Analyzed: 10/29/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	66	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	101	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	94	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101904-18A
Client I.D. Number: DUP-3

Sampled: 10/17/12 00:00
Received: 10/19/12
Extracted: 10/29/12
Analyzed: 10/29/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethane	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	103	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	96	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	96	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101904-19A
Client I.D. Number: EB-1

Sampled: 10/17/12 13:45
Received: 10/19/12
Extracted: 10/29/12
Analyzed: 10/29/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	105	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	101	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	97	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101904-20A
Client I.D. Number: EB-2

Sampled: 10/17/12 13:35
Received: 10/19/12
Extracted: 10/29/12
Analyzed: 10/29/12

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	108	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	93	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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Randy Gardner

Walter Hinchman

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101904-21A
Client I.D. Number: TB-1

Sampled: 10/17/12 08:00
Received: 10/19/12
Extracted: 10/29/12
Analyzed: 10/29/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	106	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	97	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	92	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101904-22A
Client I.D. Number: TB-2

Sampled: 10/17/12 08:00
Received: 10/19/12
Extracted: 10/29/12
Analyzed: 10/29/12

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	109	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	96	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	94	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered in any way.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

PS
10/30/12

Report Date

Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

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VOC Sample Preservation Report

Work Order: CHH12101904

Job: KMEP DFSP Norwalk

Alpha's Sample ID	Client's Sample ID	Matrix	pH
12101904-01A	PW-3	Aqueous	2
12101904-02A	GMW-O-16	Aqueous	2
12101904-03A	GMW-38	Aqueous	2
12101904-04A	MW-6	Aqueous	2
12101904-05A	MW-7	Aqueous	2
12101904-06A	MW-19 MID	Aqueous	2
12101904-07A	MW-20 MID	Aqueous	2
12101904-08A	WCW-7	Aqueous	2
12101904-09A	MW-8	Aqueous	2
12101904-10A	GMW-39	Aqueous	2
12101904-11A	GMW-SF-9	Aqueous	2
12101904-12A	GMW-SF-10	Aqueous	2
12101904-13A	GMW-14	Aqueous	2
12101904-14A	PZ-10	Aqueous	2
12101904-15A	GMW-1	Aqueous	2
12101904-16A	MW-9	Aqueous	5
12101904-17A	DUP-2	Aqueous	2
12101904-18A	DUP-3	Aqueous	2
12101904-19A	EB-1	Aqueous	2
12101904-20A	EB-2	Aqueous	2
12101904-21A	TB-1	Aqueous	2
12101904-22A	TB-2	Aqueous	2

10/30/12

Report Date

Page 1 of 1



Alpha Analytical, Inc.

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Date:
30-Oct-12

QC Summary Report

Work Order:
12101904

Method Blank

Type: MBLK Test Code: EPA Method SW8015B/C Ext

File ID: 2A10191234.D

Batch ID: 29714

Analysis Date: 10/20/2012 16:16

Sample ID: MBLK-29714

Units : mg/L

Run ID: FID_2_121019B

Prep Date: 10/19/2012 14:07

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	ND	0.05								
Surr: Nonane	0.157		0.15		105	49	145			

Laboratory Control Spike

Type: LCS Test Code: EPA Method SW8015B/C Ext

File ID: 2A10191235.D

Batch ID: 29714

Analysis Date: 10/20/2012 16:41

Sample ID: LCS-29714

Units : mg/L

Run ID: FID_2_121019B

Prep Date: 10/19/2012 14:07

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.34	0.05	2.5		93	70	130			
Surr: Nonane	0.176		0.15		117	49	145			

Sample Matrix Spike

Type: MS Test Code: EPA Method SW8015B/C Ext

File ID: 2A10191257.D

Batch ID: 29714

Analysis Date: 10/21/2012 02:06

Sample ID: 12101904-18AMS

Units : mg/L

Run ID: FID_2_121019B

Prep Date: 10/19/2012 14:07

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	3.04	0.05	2.5	0	121	53	150			
Surr: Nonane	0.192		0.15		128	49	145			

Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8015B/C Ext

File ID: 2A10191258.D

Batch ID: 29714

Analysis Date: 10/21/2012 02:31

Sample ID: 12101904-18AMSD

Units : mg/L

Run ID: FID_2_121019B

Prep Date: 10/19/2012 14:07

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	1.7	0.05	2.5	0	68	53	150	3.036	56.5(47)	R5
Surr: Nonane	0.173		0.15		115	49	145			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

R5 = MS/MSD RPD exceeded the laboratory control limit. Recovery met acceptance criteria.



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Date:
30-Oct-12

QC Summary Report

Work Order:
12101904

Method Blank

Type: MBLK Test Code: EPA Method SW8015B/C

File ID: C:\HPCHEM\MS10\DATA\121025\12102505.D

Batch ID: MS10W1025B

Analysis Date: 10/25/2012 12:28

Sample ID: MBLK MS10W1025B

Units: mg/L

Run ID: MSD_10_121025A

Prep Date: 10/25/2012 12:28

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	0.05								
Surr: 1,2-Dichloroethane-d4	0.00995		0.01		100	70	130			
Surr: Toluene-d8	0.00972		0.01		97	70	130			
Surr: 4-Bromofluorobenzene	0.00909		0.01		91	70	130			

Laboratory Control Spike

Type: LCS Test Code: EPA Method SW8015B/C

File ID: C:\HPCHEM\MS10\DATA\121025\12102503.D

Batch ID: MS10W1025B

Analysis Date: 10/25/2012 11:45

Sample ID: GLCS MS10W1025B

Units: mg/L

Run ID: MSD_10_121025A

Prep Date: 10/25/2012 11:45

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.349	0.05	0.4		87	70	130			
Surr: 1,2-Dichloroethane-d4	0.00983		0.01		98	70	130			
Surr: Toluene-d8	0.0101		0.01		101	70	130			
Surr: 4-Bromofluorobenzene	0.00987		0.01		99	70	130			

Sample Matrix Spike

Type: MS Test Code: EPA Method SW8015B/C

File ID: C:\HPCHEM\MS10\DATA\121025\12102513.D

Batch ID: MS10W1025B

Analysis Date: 10/25/2012 15:20

Sample ID: 12101904-01AGS

Units: mg/L

Run ID: MSD_10_121025A

Prep Date: 10/25/2012 15:20

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.58	0.25	2	0	79	51	144			
Surr: 1,2-Dichloroethane-d4	0.0497		0.05		99	70	130			
Surr: Toluene-d8	0.0514		0.05		103	70	130			
Surr: 4-Bromofluorobenzene	0.0502		0.05		100	70	130			

Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8015B/C

File ID: C:\HPCHEM\MS10\DATA\121025\12102514.D

Batch ID: MS10W1025B

Analysis Date: 10/25/2012 15:42

Sample ID: 12101904-01AGSD

Units: mg/L

Run ID: MSD_10_121025A

Prep Date: 10/25/2012 15:42

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.69	0.25	2	0	85	51	144	1.585	6.6(29)	
Surr: 1,2-Dichloroethane-d4	0.0512		0.05		102	70	130			
Surr: Toluene-d8	0.0505		0.05		101	70	130			
Surr: 4-Bromofluorobenzene	0.0499		0.05		99.9	70	130			

Comments:

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Date:
30-Oct-12

QC Summary Report

Work Order:
12101904

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8015B/C**

File ID: **C:\HPCHEM\MS10\DATA\121029\12102905.D**

Batch ID: **MS10W1029B**

Analysis Date: **10/29/2012 12:48**

Sample ID: **MBLK MS10W1029B**

Units: **mg/L**

Run ID: **MSD_10_121029A**

Prep Date: **10/29/2012 12:48**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	0.05								
Surr: 1,2-Dichloroethane-d4	0.00973		0.01		97	70	130			
Surr: Toluene-d8	0.0102		0.01		102	70	130			
Surr: 4-Bromofluorobenzene	0.00939		0.01		94	70	130			

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8015B/C**

File ID: **C:\HPCHEM\MS10\DATA\121029\12102903.D**

Batch ID: **MS10W1029B**

Analysis Date: **10/29/2012 11:40**

Sample ID: **GLCS MS10W1029B**

Units: **mg/L**

Run ID: **MSD_10_121029A**

Prep Date: **10/29/2012 11:40**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.4	0.05	0.4		99.9	70	130			
Surr: 1,2-Dichloroethane-d4	0.0106		0.01		106	70	130			
Surr: Toluene-d8	0.00995		0.01		100	70	130			
Surr: 4-Bromofluorobenzene	0.00994		0.01		99	70	130			

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8015B/C**

File ID: **C:\HPCHEM\MS10\DATA\121029\12102915.D**

Batch ID: **MS10W1029B**

Analysis Date: **10/29/2012 16:26**

Sample ID: **12102601-01AGS**

Units: **mg/L**

Run ID: **MSD_10_121029A**

Prep Date: **10/29/2012 16:26**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.77	0.25	2	0	89	51	144			
Surr: 1,2-Dichloroethane-d4	0.0529		0.05		106	70	130			
Surr: Toluene-d8	0.0503		0.05		101	70	130			
Surr: 4-Bromofluorobenzene	0.0522		0.05		104	70	130			

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8015B/C**

File ID: **C:\HPCHEM\MS10\DATA\121029\12102916.D**

Batch ID: **MS10W1029B**

Analysis Date: **10/29/2012 16:48**

Sample ID: **12102601-01AGSD**

Units: **mg/L**

Run ID: **MSD_10_121029A**

Prep Date: **10/29/2012 16:48**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.8	0.25	2	0	90	51	144	1.774	1.4(29)	
Surr: 1,2-Dichloroethane-d4	0.0526		0.05		105	70	130			
Surr: Toluene-d8	0.0511		0.05		102	70	130			
Surr: 4-Bromofluorobenzene	0.0507		0.05		101	70	130			

Comments:

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Date:
30-Oct-12

QC Summary Report

Work Order:
12101904

n-Butylbenzene	ND	1				
1,2-Dibromo-3-chloropropane (DBCP)	ND	5				
1,2,4-Trichlorobenzene	ND	2				
Naphthalene	ND	10				
1,2,3-Trichlorobenzene	ND	2				
Xylenes, Total	ND	0.5				
Surr: 1,2-Dichloroethane-d4	9.95		10	100	70	130
Surr: Toluene-d8	9.72		10	97	70	130
Surr: 4-Bromofluorobenzene	9.09		10	91	70	130



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Date:
30-Oct-12

QC Summary Report

Work Order:
12101904

Laboratory Control Spike

Type: LCS Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\121025\12102502.D

Batch ID: MS10W1025A

Analysis Date: 10/25/2012 11:24

Sample ID: LCS MS10W1025A

Units: µg/L

Run ID: MSD_10_121025A

Prep Date: 10/25/2012 11:24

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	9.85	1	10		99	37	137			
Chloromethane	9.04	2	10		90	43	140			
Vinyl chloride	8.77	1	10		88	80	120			
Chloroethane	8.75	1	10		88	43	141			
Bromomethane	7.37	2	10		74	11	160			
Trichlorofluoromethane	8.24	1	10		82	40	148			
Acetone	230	10	200		115	36	171			
1,1-Dichloroethene	10.9	1	10		109	80	120			
Tertiary Butyl Alcohol (TBA)	106	10	100		106	44	156			
Dichloromethane	11	2	10		110	69	130			
Freon-113	10.1	1	10		101	70	137			
trans-1,2-Dichloroethene	11.2	1	10		112	70	130			
Methyl tert-butyl ether (MTBE)	9.51	0.5	10		95	65	140			
1,1-Dichloroethane	9.88	1	10		99	70	130			
2-Butanone (MEK)	209	10	200		105	23	182			
Di-isopropyl Ether (DIPE)	10.7	1	10		107	70	130			
cis-1,2-Dichloroethene	11.2	1	10		112	70	130			
Bromochloromethane	11.4	1	10		114	70	132			
Chloroform	9.79	1	10		98	80	120			
Ethyl Tertiary Butyl Ether (ETBE)	10	1	10		100	65	139			
2,2-Dichloropropane	9.97	1	10		99.7	68	154			
1,2-Dichloroethane	8.06	1	10		81	70	132			
1,1,1-Trichloroethane	9.15	1	10		92	70	135			
1,1-Dichloropropene	10.1	1	10		101	70	130			
Carbon tetrachloride	8.93	1	10		89	61	148			
Benzene	9.96	0.5	10		99.6	70	130			
Tertiary Amyl Methyl Ether (TAME)	9.59	1	10		96	68	134			
Dibromomethane	9.97	1	10		99.7	70	130			
1,2-Dichloropropane	8.59	1	10		86	80	120			
Trichloroethene	10.7	1	10		107	65	144			
Bromodichloromethane	9.73	1	10		97	50	157			
4-Methyl-2-pentanone (MIBK)	26.1	2.5	25		105	20	182			
cis-1,3-Dichloropropene	10.2	1	10		102	70	131			
trans-1,3-Dichloropropene	10	1	10		100	70	136			
1,1,2-Trichloroethane	10.9	1	10		109	70	130			
Toluene	10.8	0.5	10		108	80	120			
1,3-Dichloropropane	10.6	1	10		106	70	130			
2-Hexanone	136	5	100		136	20	182			
Dibromochloromethane	11.2	1	10		112	42	155			
1,2-Dibromoethane (EDB)	22.3	2	20		111	70	130			
Tetrachloroethene	11.6	1	10		116	70	130			
1,1,1,2-Tetrachloroethane	10.8	1	10		108	70	130			
Chlorobenzene	11.9	1	10		119	70	130			
Ethylbenzene	11	0.5	10		110	80	120			
m,p-Xylene	10.7	0.5	10		107	70	130			
Bromoform	11	1	10		110	68	143			
Styrene	12.2	1	10		122	64	153			
o-Xylene	11.2	0.5	10		112	70	130			
1,1,2,2-Tetrachloroethane	11.7	1	10		117	70	130			
1,2,3-Trichloropropane	20	2	20		100	70	130			
Isopropylbenzene	10	1	10		100	68	138			
Bromobenzene	10.6	1	10		106	70	130			
n-Propylbenzene	10.6	1	10		106	70	133			
4-Chlorotoluene	10.3	1	10		103	70	130			
2-Chlorotoluene	10.2	1	10		102	70	130			
1,3,5-Trimethylbenzene	9.56	1	10		96	70	134			
tert-Butylbenzene	9.8	1	10		98	55	147			
1,2,4-Trimethylbenzene	9.54	1	10		95	70	134			
sec-Butylbenzene	10.3	1	10		103	70	135			
1,3-Dichlorobenzene	10.2	1	10		102	70	130			
1,4-Dichlorobenzene	10.1	1	10		101	70	130			
4-Isopropyltoluene	9.93	1	10		99	70	132			
1,2-Dichlorobenzene	10.1	1	10		101	70	130			
n-Butylbenzene	10	1	10		100	70	134			
1,2-Dibromo-3-chloropropane (DBCP)	50.5	3	50		101	67	130			



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Date:
30-Oct-12

QC Summary Report

Work Order:
12101904

1,2,4-Trichlorobenzene	9.11	2	10	91	67	132
Naphthalene	9.24	2	10	92	38	154
1,2,3-Trichlorobenzene	8.56	2	10	86	56	137
Xylenes, Total	21.9	0.5	20	109	70	130
Surr: 1,2-Dichloroethane-d4	11.5		10	115	70	130
Surr: Toluene-d8	10.5		10	105	70	130
Surr: 4-Bromofluorobenzene	10		10	100	70	130



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Date:
30-Oct-12

QC Summary Report

Work Order:
12101904

Sample Matrix Spike

Type: MS

Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\121025\12102511.D

Batch ID: MS10W1025A

Analysis Date: 10/25/2012 14:37

Sample ID: 12101904-01AMS

Units: µg/L

Run ID: MSD_10_121025A

Prep Date: 10/25/2012 14:37

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	37.8	2.5	50	0	76	21	138			
Chloromethane	38.1	10	50	0	76	23	144			
Vinyl chloride	36.8	2.5	50	0	74	49	136			
Chloroethane	37.5	2.5	50	0	75	21	159			
Bromomethane	26.1	10	50	0	52	10	174			
Trichlorofluoromethane	35.7	2.5	50	0	71	32	154			
Acetone	1020	50	1000	0	102	10	171			
1,1-Dichloroethene	46.5	2.5	50	0	93	64	130			
Tertiary Butyl Alcohol (TBA)	523	25	500	0	105	41	157			
Dichloromethane	45.6	10	50	0	91	69	130			
Freon-113	42.8	2.5	50	0	86	55	141			
trans-1,2-Dichloroethene	47.4	2.5	50	0	95	63	130			
Methyl tert-butyl ether (MTBE)	41.5	1.3	50	0	83	47	150			
1,1-Dichloroethane	42.1	2.5	50	0	84	66	130			
2-Butanone (MEK)	944	50	1000	0	94	23	182			
Di-isopropyl Ether (DIPE)	46.6	2.5	50	0	93	59	139			
cis-1,2-Dichloroethene	48.9	2.5	50	0	98	70	130			
Bromochloromethane	49	2.5	50	0	98	70	132			
Chloroform	42.4	2.5	50	0	85	70	130			
Ethyl Tertiary Butyl Ether (ETBE)	44.2	2.5	50	0	88	59	182			
2,2-Dichloropropane	38.7	2.5	50	0	77	38	154			
1,2-Dichloroethane	35.2	2.5	50	0	70	65	134			
1,1,1-Trichloroethane	39.6	2.5	50	0	79	65	136			
1,1-Dichloropropene	43	2.5	50	0	86	68	132			
Carbon tetrachloride	38.8	2.5	50	0	78	58	148			
Benzene	41.8	1.3	50	0	84	59	138			
Tertiary Amyl Methyl Ether (TAME)	42.2	2.5	50	0	84	63	135			
Dibromomethane	44.5	2.5	50	0	89	70	130			
1,2-Dichloropropane	37.9	2.5	50	0	76	70	131			
Trichloroethene	44.8	2.5	50	0	90	65	144			
Bromodichloromethane	43.4	2.5	50	0	87	50	157			
4-Methyl-2-pentanone (MIBK)	115	13	125	0	92	20	182			
cis-1,3-Dichloropropene	41.4	2.5	50	0	83	63	131			
trans-1,3-Dichloropropene	42.2	2.5	50	0	84	65	136			
1,1,2-Trichloroethane	47.8	2.5	50	0	96	70	131			
Toluene	45.9	1.3	50	0	92	68	130			
1,3-Dichloropropane	46.8	2.5	50	0	94	70	130			
2-Hexanone	451	25	500	0	90	20	182			
Dibromochloromethane	49.4	2.5	50	0	99	42	155			
1,2-Dibromoethane (EDB)	98.5	5	100	0	98	70	130			
Tetrachloroethene	48.6	2.5	50	0	97	65	130			
1,1,1,2-Tetrachloroethane	47.1	2.5	50	0	94	70	130			
Chlorobenzene	51.3	2.5	50	0	103	70	130			
Ethylbenzene	47	1.3	50	0	94	68	130			
m,p-Xylene	44.9	1.3	50	0	90	68	131			
Bromoform	47.5	2.5	50	0	95	65	143			
Styrene	52.2	2.5	50	0	104	59	153			
o-Xylene	46.5	1.3	50	0	93	70	130			
1,1,2,2-Tetrachloroethane	52.2	2.5	50	0	104	67	130			
1,2,3-Trichloropropane	88.7	10	100	0	89	70	130			
Isopropylbenzene	45.7	2.5	50	0	91	55	138			
Bromobenzene	49.1	2.5	50	0	98	70	130			
n-Propylbenzene	46.8	2.5	50	0	94	67	133			
4-Chlorotoluene	45.7	2.5	50	0	91	70	130			
2-Chlorotoluene	45.6	2.5	50	0	91	70	130			
1,3,5-Trimethylbenzene	42.1	2.5	50	0	84	67	134			
tert-Butylbenzene	45.1	2.5	50	0	90	55	147			
1,2,4-Trimethylbenzene	41.9	2.5	50	0	84	65	135			
sec-Butylbenzene	46.1	2.5	50	0	92	68	135			
1,3-Dichlorobenzene	45.5	2.5	50	0	91	70	130			
1,4-Dichlorobenzene	44.3	2.5	50	0	89	70	130			
4-Isopropyltoluene	43.5	2.5	50	0	87	68	132			
1,2-Dichlorobenzene	45.2	2.5	50	0	90	70	130			
n-Butylbenzene	43.1	2.5	50	0	86	62	134			
1,2-Dibromo-3-chloropropane (DBCP)	226	15	250	0	90	64	130			



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Date:

30-Oct-12

QC Summary Report

Work Order:

12101904

1,2,4-Trichlorobenzene	37.7	10	50	0	75	62	133
Naphthalene	39.7	10	50	0	79	32	166
1,2,3-Trichlorobenzene	36.8	10	50	0	74	55	138
Xylenes, Total	91.3	1.3	100	0	91	70	130
Surr: 1,2-Dichloroethane-d4	58.5		50		117	70	130
Surr: Toluene-d8	52		50		104	70	130
Surr: 4-Bromofluorobenzene	52.4		50		105	70	130



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Date:
30-Oct-12

QC Summary Report

Work Order:
12101904

Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\121025\12102512.D

Batch ID: MS10W1025A

Analysis Date: 10/25/2012 14:58

Sample ID: 12101904-01AMSD

Units: µg/L

Run ID: MSD_10_121025A

Prep Date: 10/25/2012 14:58

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	35.6	2.5	50	0	71	21	138	37.82	6.1(33)	
Chloromethane	43.3	10	50	0	87	23	144	38.13	12.6(27)	
Vinyl chloride	38.8	2.5	50	0	78	49	136	36.76	5.3(21)	
Chloroethane	38	2.5	50	0	76	21	159	37.52	1.3(40)	
Bromomethane	34.3	10	50	0	69	10	174	26.08	27.1(40)	
Trichlorofluoromethane	35.4	2.5	50	0	71	32	154	35.71	1.0(37)	
Acetone	1030	50	1000	0	103	10	171	1023	0.7(23)	
1,1-Dichloroethene	47.1	2.5	50	0	94	64	130	46.51	1.2(21)	
Tertiary Butyl Alcohol (TBA)	537	25	500	0	107	41	157	522.5	2.7(30)	
Dichloromethane	46.9	10	50	0	94	69	130	45.55	2.9(20)	
Freon-113	39.5	2.5	50	0	79	55	141	42.81	8.0(40)	
trans-1,2-Dichloroethene	48.1	2.5	50	0	96	63	130	47.43	1.3(20)	
Methyl tert-butyl ether (MTBE)	42.5	1.3	50	0	85	47	150	41.45	2.4(40)	
1,1-Dichloroethane	42.5	2.5	50	0	85	66	130	42.11	1.0(20)	
2-Butanone (MEK)	990	50	1000	0	99	23	182	943.5	4.8(22)	
Di-isopropyl Ether (DIPE)	47.5	2.5	50	0	95	59	139	46.56	2.0(20)	
cis-1,2-Dichloroethene	49.2	2.5	50	0	98	70	130	48.87	0.6(20)	
Bromochloromethane	49.9	2.5	50	0	99.8	70	132	48.96	1.9(20)	
Chloroform	42.7	2.5	50	0	85	70	130	42.35	0.8(20)	
Ethyl Tertiary Butyl Ether (ETBE)	45.1	2.5	50	0	90	59	182	44.22	2.0(40)	
2,2-Dichloropropane	39.1	2.5	50	0	78	38	154	38.69	1.0(22)	
1,2-Dichloroethane	36	2.5	50	0	72	65	134	35.22	2.1(20)	
1,1,1-Trichloroethane	40.3	2.5	50	0	81	65	136	39.64	1.7(20)	
1,1-Dichloropropene	43.7	2.5	50	0	87	68	132	42.98	1.7(20)	
Carbon tetrachloride	38.3	2.5	50	0	77	58	148	38.76	1.3(20)	
Benzene	42.7	1.3	50	0	85	59	138	41.83	2.1(21)	
Tertiary Amyl Methyl Ether (TAME)	43.2	2.5	50	0	86	63	135	42.23	2.2(40)	
Dibromomethane	46.5	2.5	50	0	93	70	130	44.52	4.3(20)	
1,2-Dichloropropane	38.5	2.5	50	0	77	70	131	37.94	1.4(20)	
Trichloroethene	45.4	2.5	50	0	91	65	144	44.83	1.3(20)	
Bromodichloromethane	44.2	2.5	50	0	88	50	157	43.38	1.9(20)	
4-Methyl-2-pentanone (MIBK)	124	13	125	0	99	20	182	114.8	7.7(20)	
cis-1,3-Dichloropropene	41.8	2.5	50	0	84	63	131	41.43	0.9(20)	
trans-1,3-Dichloropropene	43.8	2.5	50	0	88	65	136	42.21	3.6(20)	
1,1,2-Trichloroethane	50.6	2.5	50	0	101	70	131	47.81	5.6(20)	
Toluene	46	1.3	50	0	92	68	130	45.94	0.1(20)	
1,3-Dichloropropane	47.8	2.5	50	0	96	70	130	46.82	2.1(20)	
2-Hexanone	465	25	500	0	93	20	182	450.9	3.0(20)	
Dibromochloromethane	50	2.5	50	0	100	42	155	49.44	1.1(20)	
1,2-Dibromoethane (EDB)	101	5	100	0	101	70	130	98.46	2.3(20)	
Tetrachloroethene	48.2	2.5	50	0	96	65	130	48.6	0.8(20)	
1,1,1,2-Tetrachloroethane	47.8	2.5	50	0	96	70	130	47.1	1.4(20)	
Chlorobenzene	52.1	2.5	50	0	104	70	130	51.31	1.6(20)	
Ethylbenzene	47.4	1.3	50	0	95	68	130	47.04	0.7(20)	
m,p-Xylene	46.3	1.3	50	0	93	68	131	44.85	3.1(20)	
Bromoform	49.7	2.5	50	0	99	65	143	47.47	4.6(20)	
Styrene	53.5	2.5	50	0	107	59	153	52.15	2.6(37)	
o-Xylene	48	1.3	50	0	96	70	130	46.46	3.2(20)	
1,1,2,2-Tetrachloroethane	54.7	2.5	50	0	109	67	130	52.17	4.7(20)	
1,2,3-Trichloropropane	92.8	10	100	0	93	70	130	88.73	4.5(20)	
Isopropylbenzene	44.6	2.5	50	0	89	55	138	45.69	2.4(20)	
Bromobenzene	48.2	2.5	50	0	96	70	130	49.08	1.8(20)	
n-Propylbenzene	46.6	2.5	50	0	93	67	133	46.84	0.6(30)	
4-Chlorotoluene	45.9	2.5	50	0	92	70	130	45.7	0.5(20)	
2-Chlorotoluene	45.3	2.5	50	0	91	70	130	45.61	0.7(20)	
1,3,5-Trimethylbenzene	42.2	2.5	50	0	84	67	134	42.09	0.1(21)	
tert-Butylbenzene	44.4	2.5	50	0	89	55	147	45.09	1.5(20)	
1,2,4-Trimethylbenzene	42.4	2.5	50	0	85	65	135	41.93	1.1(25)	
sec-Butylbenzene	46	2.5	50	0	92	68	135	46.08	0.2(20)	
1,3-Dichlorobenzene	45.9	2.5	50	0	92	70	130	45.54	0.9(20)	
1,4-Dichlorobenzene	45.1	2.5	50	0	90	70	130	44.34	1.8(20)	
4-Isopropyltoluene	44.1	2.5	50	0	88	68	132	43.51	1.4(20)	
1,2-Dichlorobenzene	46.2	2.5	50	0	92	70	130	45.19	2.3(20)	
n-Butylbenzene	44.2	2.5	50	0	88	62	134	43.06	2.6(21)	
1,2-Dibromo-3-chloropropane (DBCP)	237	15	250	0	95	64	130	226.1	4.6(20)	



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Date:

30-Oct-12

QC Summary Report

Work Order:

12101904

1,2,4-Trichlorobenzene	40.8	10	50	0	82	62	133	37.7	7.8(29)
Naphthalene	43.5	10	50	0	87	32	166	39.69	9.1(40)
1,2,3-Trichlorobenzene	41.2	10	50	0	82	55	138	36.77	11.3(36)
Xylenes, Total	94.3	1.3	100	0	94	70	130	91.31	3.2(20)
Surr: 1,2-Dichloroethane-d4	58		50		116	70	130		
Surr: Toluene-d8	50.6		50		101	70	130		
Surr: 4-Bromofluorobenzene	50.3		50		101	70	130		

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:

30-Oct-12

QC Summary Report

Work Order:

12101904

n-Butylbenzene	ND	1				
1,2-Dibromo-3-chloropropane (DBCP)	ND	5				
1,2,4-Trichlorobenzene	ND	2				
Naphthalene	ND	10				
1,2,3-Trichlorobenzene	ND	2				
Xylenes, Total	ND	0.5				
Surr: 1,2-Dichloroethane-d4	9.73		10	97	70	130
Surr: Toluene-d8	10.2		10	102	70	130
Surr: 4-Bromofluorobenzene	9.39		10	94	70	130



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Date:
30-Oct-12

QC Summary Report

Work Order:
12101904

Laboratory Control Spike

Type: LCS Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\121029\12102902.D

Batch ID: MS10W1029A

Analysis Date: 10/29/2012 11:19

Sample ID: LCS MS10W1029A

Units: µg/L

Run ID: MSD_10_121029A

Prep Date: 10/29/2012 11:19

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	9.77	1	10		98	37	137			
Chloromethane	11.4	2	10		114	43	140			
Vinyl chloride	8.51	1	10		85	80	120			
Chloroethane	8.93	1	10		89	43	141			
Bromomethane	9.23	2	10		92	11	160			
Trichlorofluoromethane	8.83	1	10		88	40	148			
Acetone	227	10	200		113	36	171			
1,1-Dichloroethene	9.93	1	10		99	80	120			
Tertiary Butyl Alcohol (TBA)	113	10	100		113	44	156			
Dichloromethane	9.58	2	10		96	69	130			
Freon-113	9.69	1	10		97	70	137			
trans-1,2-Dichloroethene	10.2	1	10		102	70	130			
Methyl tert-butyl ether (MTBE)	8.91	0.5	10		89	65	140			
1,1-Dichloroethane	9.43	1	10		94	70	130			
2-Butanone (MEK)	206	10	200		103	23	182			
Di-isopropyl Ether (DIPE)	10.3	1	10		103	70	130			
cis-1,2-Dichloroethene	10.4	1	10		104	70	130			
Bromochloromethane	10.2	1	10		102	70	132			
Chloroform	9.29	1	10		93	80	120			
Ethyl Tertiary Butyl Ether (ETBE)	9.49	1	10		95	65	139			
2,2-Dichloropropane	9.69	1	10		97	68	154			
1,2-Dichloroethane	7.95	1	10		80	70	132			
1,1,1-Trichloroethane	8.98	1	10		90	70	135			
1,1-Dichloropropene	9.8	1	10		98	70	130			
Carbon tetrachloride	8.83	1	10		88	61	148			
Benzene	9.29	0.5	10		93	70	130			
Tertiary Amyl Methyl Ether (TAME)	8.79	1	10		88	68	134			
Dibromomethane	9.64	1	10		96	70	130			
1,2-Dichloropropane	8.87	1	10		89	80	120			
Trichloroethene	9.88	1	10		99	65	144			
Bromodichloromethane	9.63	1	10		96	50	157			
4-Methyl-2-pentanone (MIBK)	27.3	2.5	25		109	20	182			
cis-1,3-Dichloropropene	9.71	1	10		97	70	131			
trans-1,3-Dichloropropene	9.89	1	10		99	70	136			
1,1,2-Trichloroethane	10.5	1	10		105	70	130			
Toluene	9.79	0.5	10		98	80	120			
1,3-Dichloropropane	9.49	1	10		95	70	130			
2-Hexanone	135	5	100		135	20	182			
Dibromochloromethane	10.1	1	10		101	42	155			
1,2-Dibromoethane (EDB)	20	2	20		99.9	70	130			
Tetrachloroethene	10.3	1	10		103	70	130			
1,1,1,2-Tetrachloroethane	9.82	1	10		98	70	130			
Chlorobenzene	11	1	10		110	70	130			
Ethylbenzene	10.2	0.5	10		102	80	120			
m,p-Xylene	9.99	0.5	10		99.9	70	130			
Bromoform	10.1	1	10		101	68	143			
Styrene	11.3	1	10		113	64	153			
o-Xylene	10.3	0.5	10		103	70	130			
1,1,2,2-Tetrachloroethane	11.1	1	10		111	70	130			
1,2,3-Trichloropropane	19.5	2	20		97	70	130			
Isopropylbenzene	9.72	1	10		97	68	138			
Bromobenzene	10.1	1	10		101	70	130			
n-Propylbenzene	10.3	1	10		103	70	133			
4-Chlorotoluene	9.86	1	10		99	70	130			
2-Chlorotoluene	9.88	1	10		99	70	130			
1,3,5-Trimethylbenzene	9.38	1	10		94	70	134			
tert-Butylbenzene	9.79	1	10		98	55	147			
1,2,4-Trimethylbenzene	9.27	1	10		93	70	134			
sec-Butylbenzene	10.2	1	10		102	70	135			
1,3-Dichlorobenzene	9.89	1	10		99	70	130			
1,4-Dichlorobenzene	9.66	1	10		97	70	130			
4-Isopropyltoluene	9.79	1	10		98	70	132			
1,2-Dichlorobenzene	9.79	1	10		98	70	130			
n-Butylbenzene	10	1	10		100	70	134			
1,2-Dibromo-3-chloropropane (DBCP)	50.3	3	50		101	67	130			



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Date:

30-Oct-12

QC Summary Report

Work Order:

12101904

1,2,4-Trichlorobenzene	8.56	2	10	86	67	132
Naphthalene	9.16	2	10	92	38	154
1,2,3-Trichlorobenzene	8.39	2	10	84	56	137
Xylenes, Total	20.3	0.5	20	101	70	130
Surr: 1,2-Dichloroethane-d4	12.5		10	125	70	130
Surr: Toluene-d8	9.88		10	99	70	130
Surr: 4-Bromofluorobenzene	10.2		10	102	70	130



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Date:
30-Oct-12

QC Summary Report

Work Order:
I2101904

Sample Matrix Spike

Type: MS

Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\121029\12102913.D

Batch ID: MS10W1029A

Analysis Date: 10/29/2012 15:42

Sample ID: 12102601-01AMS

Units: µg/L

Run ID: MSD_10_121029A

Prep Date: 10/29/2012 15:42

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	28.8	2.5	50	0	58	21	138			
Chloromethane	43.4	10	50	0	87	23	144			
Vinyl chloride	39	2.5	50	0	78	49	136			
Chloroethane	40.1	2.5	50	0	80	21	159			
Bromomethane	33.9	10	50	0	68	10	174			
Trichlorofluoromethane	39.8	2.5	50	0	80	32	154			
Acetone	1130	50	1000	0	113	10	171			
1,1-Dichloroethene	46.2	2.5	50	0	92	64	130			
Tertiary Butyl Alcohol (TBA)	646	25	500	0	129	41	157			
Dichloromethane	47.6	10	50	0	95	69	130			
Freon-113	43.2	2.5	50	0	86	55	141			
trans-1,2-Dichloroethene	49	2.5	50	0	98	63	130			
Methyl tert-butyl ether (MTBE)	45.1	1.3	50	0	90	47	150			
1,1-Dichloroethane	45.3	2.5	50	0	91	66	130			
2-Butanone (MEK)	1080	50	1000	0	108	23	182			
Di-isopropyl Ether (DIPE)	51.8	2.5	50	0	104	59	139			
cis-1,2-Dichloroethene	50.5	2.5	50	0	101	70	130			
Bromochloromethane	51.4	2.5	50	0	103	70	132			
Chloroform	46.7	2.5	50	0	93	70	130			
Ethyl Tertiary Butyl Ether (ETBE)	48.7	2.5	50	0	97	59	182			
2,2-Dichloropropane	41.2	2.5	50	0	82	38	154			
1,2-Dichloroethane	40.3	2.5	50	0	81	65	134			
1,1,1-Trichloroethane	43.8	2.5	50	0	88	65	136			
1,1-Dichloropropene	46.4	2.5	50	0	93	68	132			
Carbon tetrachloride	41.8	2.5	50	0	84	58	148			
Benzene	45.2	1.3	50	0	90	59	138			
Tertiary Amyl Methyl Ether (TAME)	47	2.5	50	0	94	63	135			
Dibromomethane	49.6	2.5	50	0	99	70	130			
1,2-Dichloropropane	42.6	2.5	50	0	85	70	131			
Trichloroethene	47.5	2.5	50	0	95	65	144			
Bromodichloromethane	48	2.5	50	0	96	50	157			
4-Methyl-2-pentanone (MIBK)	132	13	125	0	106	20	182			
cis-1,3-Dichloropropene	44	2.5	50	0	88	63	131			
trans-1,3-Dichloropropene	48.4	2.5	50	0	97	65	136			
1,1,2-Trichloroethane	53.7	2.5	50	0	107	70	131			
Toluene	47.1	1.3	50	0	94	68	130			
1,3-Dichloropropane	50	2.5	50	0	100	70	130			
2-Hexanone	524	25	500	0	105	20	182			
Dibromochloromethane	52.5	2.5	50	0	105	42	155			
1,2-Dibromoethane (EDB)	106	5	100	0	106	70	130			
Tetrachloroethene	48.2	2.5	50	0	96	65	130			
1,1,1,2-Tetrachloroethane	49.8	2.5	50	0	99.5	70	130			
Chlorobenzene	54.1	2.5	50	0	108	70	130			
Ethylbenzene	49	1.3	50	0	98	68	130			
m,p-Xylene	46.7	1.3	50	0	93	68	131			
Bromoform	53.3	2.5	50	0	107	65	143			
Styrene	55.1	2.5	50	0	110	59	153			
o-Xylene	49.2	1.3	50	0	98	70	130			
1,1,2,2-Tetrachloroethane	60.7	2.5	50	0	121	67	130			
1,2,3-Trichloropropane	103	10	100	0	103	70	130			
Isopropylbenzene	45.8	2.5	50	0	92	55	138			
Bromobenzene	49.9	2.5	50	0	99.7	70	130			
n-Propylbenzene	46.8	2.5	50	0	94	67	133			
4-Chlorotoluene	46.4	2.5	50	0	93	70	130			
2-Chlorotoluene	46.3	2.5	50	0	93	70	130			
1,3,5-Trimethylbenzene	42.8	2.5	50	0	86	67	134			
tert-Butylbenzene	45.3	2.5	50	0	91	55	147			
1,2,4-Trimethylbenzene	43.2	2.5	50	0	86	65	135			
sec-Butylbenzene	45.9	2.5	50	0	92	68	135			
1,3-Dichlorobenzene	46.7	2.5	50	0	93	70	130			
1,4-Dichlorobenzene	45.9	2.5	50	0	92	70	130			
4-Isopropyltoluene	43.8	2.5	50	0	88	68	132			
1,2-Dichlorobenzene	47.4	2.5	50	0	95	70	130			
n-Butylbenzene	43.5	2.5	50	0	87	62	134			
1,2-Dibromo-3-chloropropane (DBCP)	251	15	250	0	100	64	130			



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:

30-Oct-12

QC Summary Report

Work Order:

12101904

1,2,4-Trichlorobenzene	41	10	50	0	82	62	133
Naphthalene	45	10	50	0	90	32	166
1,2,3-Trichlorobenzene	41.3	10	50	0	83	55	138
Xylenes, Total	95.9	1.3	100	0	96	70	130
Surr: 1,2-Dichloroethane-d4	62.2		50		124	70	130
Surr: Toluene-d8	49.6		50		99	70	130
Surr: 4-Bromofluorobenzene	50.2		50		100	70	130



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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
30-Oct-12

QC Summary Report

Work Order:
12101904

Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\121029\12102914.D

Batch ID: MS10W1029A

Analysis Date: 10/29/2012 16:04

Sample ID: 12102601-01AMSD

Units: µg/L

Run ID: MSD_10_121029A

Prep Date: 10/29/2012 16:04

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	29.4	2.5	50	0	59	21	138	28.78	2.1(33)	
Chloromethane	43	10	50	0	86	23	144	43.38	0.8(27)	
Vinyl chloride	38.1	2.5	50	0	76	49	136	39.02	2.4(21)	
Chloroethane	39	2.5	50	0	78	21	159	40.11	2.7(40)	
Bromomethane	37.9	10	50	0	76	10	174	33.89	11.1(40)	
Trichlorofluoromethane	38.5	2.5	50	0	77	32	154	39.84	3.4(37)	
Acetone	1110	50	1000	0	111	10	171	1133	2.5(23)	
1,1-Dichloroethene	46.6	2.5	50	0	93	64	130	46.21	0.8(21)	
Tertiary Butyl Alcohol (TBA)	642	25	500	0	128	41	157	645.9	0.7(30)	
Dichloromethane	46.4	10	50	0	93	69	130	47.59	2.6(20)	
Freon-113	44.4	2.5	50	0	89	55	141	43.21	2.8(40)	
trans-1,2-Dichloroethene	48.5	2.5	50	0	97	63	130	49.04	1.1(20)	
Methyl tert-butyl ether (MTBE)	46.1	1.3	50	0	92	47	150	45.05	2.2(40)	
1,1-Dichloroethane	44.5	2.5	50	0	89	66	130	45.29	1.7(20)	
2-Butanone (MEK)	1060	50	1000	0	106	23	182	1077	1.8(22)	
Di-isopropyl Ether (DIPE)	51.4	2.5	50	0	103	59	139	51.79	0.7(20)	
cis-1,2-Dichloroethene	50.1	2.5	50	0	100	70	130	50.45	0.7(20)	
Bromochloromethane	50.8	2.5	50	0	102	70	132	51.38	1.1(20)	
Chloroform	45.3	2.5	50	0	91	70	130	46.68	3.0(20)	
Ethyl Tertiary Butyl Ether (ETBE)	48.7	2.5	50	0	97	59	182	48.66	0.1(40)	
2,2-Dichloropropane	39.3	2.5	50	0	79	38	154	41.2	4.8(22)	
1,2-Dichloroethane	39.4	2.5	50	0	79	65	134	40.25	2.1(20)	
1,1,1-Trichloroethane	42.2	2.5	50	0	84	65	136	43.75	3.5(20)	
1,1-Dichloropropene	45.9	2.5	50	0	92	68	132	46.4	1.0(20)	
Carbon tetrachloride	41.1	2.5	50	0	82	58	148	41.81	1.8(20)	
Benzene	44.3	1.3	50	0	89	59	138	45.18	2.1(21)	
Tertiary Amyl Methyl Ether (TAME)	47	2.5	50	0	94	63	135	47.02	0.1(40)	
Dibromomethane	48.6	2.5	50	0	97	70	130	49.61	2.0(20)	
1,2-Dichloropropane	40.9	2.5	50	0	82	70	131	42.57	4.0(20)	
Trichloroethene	46.7	2.5	50	0	93	65	144	47.52	1.8(20)	
Bromodichloromethane	46.6	2.5	50	0	93	50	157	48.03	3.0(20)	
4-Methyl-2-pentanone (MIBK)	140	13	125	0	112	20	182	132	5.8(20)	
cis-1,3-Dichloropropene	44.6	2.5	50	0	89	63	131	44.01	1.3(20)	
trans-1,3-Dichloropropene	47.8	2.5	50	0	96	65	136	48.44	1.4(20)	
1,1,2-Trichloroethane	53.9	2.5	50	0	108	70	131	53.69	0.4(20)	
Toluene	46.6	1.3	50	0	93	68	130	47.05	1.1(20)	
1,3-Dichloropropane	49.8	2.5	50	0	99.6	70	130	50.04	0.5(20)	
2-Hexanone	525	25	500	0	105	20	182	524.1	0.1(20)	
Dibromochloromethane	52.5	2.5	50	0	105	42	155	52.51	0.1(20)	
1,2-Dibromoethane (EDB)	106	5	100	0	106	70	130	105.7	0.1(20)	
Tetrachloroethene	49.2	2.5	50	0	98	65	130	48.19	2.0(20)	
1,1,1,2-Tetrachloroethane	48.9	2.5	50	0	98	70	130	49.77	1.8(20)	
Chlorobenzene	53.2	2.5	50	0	106	70	130	54.06	1.5(20)	
Ethylbenzene	48	1.3	50	0	96	68	130	49	2.0(20)	
m,p-Xylene	46.2	1.3	50	0	92	68	131	46.72	1.0(20)	
Bromoform	53.1	2.5	50	0	106	65	143	53.26	0.2(20)	
Styrene	54.2	2.5	50	0	108	59	153	55.08	1.7(37)	
o-Xylene	48	1.3	50	0	96	70	130	49.22	2.6(20)	
1,1,2,2-Tetrachloroethane	59.1	2.5	50	0	118	67	130	60.74	2.8(20)	
1,2,3-Trichloropropane	100	10	100	0	100	70	130	103.2	2.8(20)	
Isopropylbenzene	45.4	2.5	50	0	91	55	138	45.83	1.0(20)	
Bromobenzene	48.9	2.5	50	0	98	70	130	49.87	1.9(20)	
n-Propylbenzene	46.7	2.5	50	0	93	67	133	46.81	0.2(30)	
4-Chlorotoluene	46.7	2.5	50	0	93	70	130	46.37	0.8(20)	
2-Chlorotoluene	46.2	2.5	50	0	92	70	130	46.3	0.3(20)	
1,3,5-Trimethylbenzene	42.7	2.5	50	0	85	67	134	42.8	0.2(21)	
tert-Butylbenzene	44.8	2.5	50	0	90	55	147	45.25	1.1(20)	
1,2,4-Trimethylbenzene	42.7	2.5	50	0	85	65	135	43.15	1.1(25)	
sec-Butylbenzene	46.9	2.5	50	0	94	68	135	45.88	2.1(20)	
1,3-Dichlorobenzene	46.3	2.5	50	0	93	70	130	46.71	0.9(20)	
1,4-Dichlorobenzene	46.2	2.5	50	0	92	70	130	45.92	0.5(20)	
4-Isopropyltoluene	44.3	2.5	50	0	89	68	132	43.81	1.2(20)	
1,2-Dichlorobenzene	47	2.5	50	0	94	70	130	47.41	1.0(20)	
n-Butylbenzene	44.9	2.5	50	0	90	62	134	43.53	3.1(21)	
1,2-Dibromo-3-chloropropane (DBCP)	250	15	250	0	99.9	64	130	250.9	0.5(20)	



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:	QC Summary Report								Work Order:
30-Oct-12									12101904
1,2,4-Trichlorobenzene	41.8	10	50	0	84	62	133	41	2.0(29)
Naphthalene	45.9	10	50	0	92	32	166	45.01	1.9(40)
1,2,3-Trichlorobenzene	42.7	10	50	0	85	55	138	41.29	3.4(36)
Xylenes, Total	94.2	1.3	100	0	94	70	130	95.94	1.8(20)
Surr: 1,2-Dichloroethane-d4	61.8		50		124	70	130		
Surr: Toluene-d8	50		50		99.9	70	130		
Surr: 4-Bromofluorobenzene	50		50		100	70	130		

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

CA

WorkOrder : CHHL12101904

Report Due By : 5:00 PM On : 30-Oct-12

Client:
 CH2M Hill
 1000 Wilshire Boulevard
 21st Floor
 Los Angeles, CA 90017

Report Attention	Phone Number	EMail Address
Daniel Jablonski	(213) 228-8271 x	daniel.jablonski@ch2m.com
Matthew Mayry	(213) 228-8271 x	matthew.mayry@ch2m.com

EDD Required : Yes

Sampled by : Matt Eifele

PO :
 Client's COC # : none Job : KMEP DFSP Norwalk

Cooler Temp	Samples Received	Date Printed
0 °C	19-Oct-12	19-Oct-12

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	Collection Date	No. of Bottles Alpha Sub TAT			Requested Tests						Sample Remarks			
							TPHE_W	TPH/P_W	VOC_W							
CHH12101904-01A	PW-3	AQ	10/17/12 08:10	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate							
CHH12101904-02A	GMW-O-16	AQ	10/17/12 08:55	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate							
CHH12101904-03A	GMW-38	AQ	10/17/12 09:35	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate							
CHH12101904-04A	MW-6	AQ	10/17/12 10:08	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate							
CHH12101904-05A	MW-7	AQ	10/17/12 08:39	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate							
CHH12101904-06A	MW-19 MID	AQ	10/17/12 08:07	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate							
CHH12101904-07A	MW-20 MID	AQ	10/17/12 09:38	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate							
CHH12101904-08A	WCW-7	AQ	10/17/12 11:00	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate							

Comments: Security seals intact. Frozen ice. Analysts: 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:		Elizabeth Adcox	Alpha Analytical, Inc.	10-19-12 11:12

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.
 The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.
 Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

CA

WorkOrder : CHHL12101904

Report Due By : 5:00 PM On : 30-Oct-12

Client:
 CH2M Hill
 1000 Wilshire Boulevard
 21st Floor
 Los Angeles, CA 90017

Report Attention	Phone Number	E-Mail Address
Daniel Jablonski	(213) 228-8271 x	daniel.jablonski@ch2m.com
Matthew Mayry	(213) 228-8271 x	matthew.mayry@ch2m.com

EDD Required : Yes

Sampled by : Matt Eifele

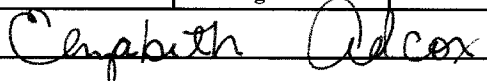
PO :
 Client's COC # : none Job : KMEP DFSP Norwalk

Cooler Temp	Samples Received	Date Printed
0 °C	19-Oct-12	19-Oct-12

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Date	Alpha	Sub	TAT	Requested Tests						Sample Remarks		
							TPHE_W	TPHE_P_W	VOC_W						
CHH12101904-09A	MW-8	AQ	10/17/12 12:13	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12101904-10A	GMW-39	AQ	10/17/12 10:20	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12101904-11A	GMW-SF-9	AQ	10/17/12 10:40	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12101904-12A	GMW-SF-10	AQ	10/17/12 11:30	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12101904-13A	GMW-14	AQ	10/17/12 13:35	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12101904-14A	PZ-10	AQ	10/17/12 13:25	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12101904-15A	GMW-1	AQ	10/17/12 14:20	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12101904-16A	MW-9	AQ	10/17/12 14:30	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						

Comments: Security seals intact. Frozen ice. Analysts: 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:		Elizabeth Adcox	Alpha Analytical, Inc.	10-19-12 11:12

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.
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 Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

CA
WorkOrder : CHHL12101904
Report Due By : 5:00 PM On : 30-Oct-12

Client:
 CH2M Hill
 1000 Wilshire Boulevard
 21st Floor
 Los Angeles, CA 90017

Report Attention	Phone Number	E-Mail Address
Daniel Jablonski	(213) 228-8271 x	daniel.jablonski@ch2m.com
Matthew Mayry	(213) 228-8271 x	matthew.mayry@ch2m.com

EDD Required : Yes

Sampled by : Matt Eifele

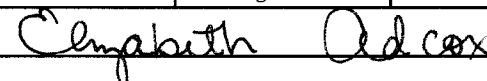
PO :
 Client's COC # : none Job : KMEP DFSP Norwalk

Cooler Temp	Samples Received	Date Printed
0 °C	19-Oct-12	19-Oct-12

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	Date	No. of Bottles			Requested Tests						Sample Remarks			
				Alpha	Sub	TAT	TPHE_W	TPHP_W	VOC_W							
CHH12101904-17A	DUP-2	AQ	10/17/12 00:00	5	0	7	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate							
CHH12101904-18A	DUP-3	AQ	10/17/12 00:00	5	0	7	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate							
CHH12101904-19A	EB-1	AQ	10/17/12 13:45	5	0	7	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate							
CHH12101904-20A	EB-2	AQ	10/17/12 13:35	5	0	7	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate							
CHH12101904-21A	TB-1	AQ	10/17/12 08:00	3	0	7			TPHE(0.05)+Vinyl acetate							Client provided trip blanks. All voas received contain air bubbles > 6mm.
CHH12101904-22A	TB-2	AQ	10/17/12 08:00	3	0	7			TPHE(0.05)+Vinyl acetate							Client provided trip blanks. All voas received contain air bubbles > 6mm.

Comments: Security seals intact. Frozen ice. Analysts: 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
	Elizabeth Adcox	Alpha Analytical, Inc.	10-19-12 11:12

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) 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												
PW-3	10-17-12	0810	AQ	5	HCL	VOAS	X	X										CH12101904-0
GMW-0-16		0855		5			X	X										-0
GMW-38		0935		5			X	X										-0
MW-6		1008		5			X	X										-0
MW-7		0839		5			X	X										-0
MW-19 MID		0807		5			X	X										-0
MW-20 MID		0938		5			X	X										-0
WCh-7		1100		5			X	X										-0
MW-8		1213		5			X	X										-0
GMW-39		1020		5			X	X										-10

SAMPLING COMPLETED DATE: 10-17-12 TIME: 1800
 SAMPLING PERFORMED BY: Matt Eiche
 RESULTS NEEDED NO LATER THAN: Standard

RELEASED BY: [Signature] TIME: 1500 RECEIVED BY: Nicole (sc) DATE: 10/17/12 TIME: 1500

RELEASED BY: Nicole (sc) TIME: 1510 RECEIVED BY: [Signature] DATE: 10/18/12 TIME: 1500

RELEASED BY: [Signature] TIME: 1510 RECEIVED BY: Campbell Adcox DATE: 10-19-12 TIME: 11:12

SHIPPED VIA: [Blank] TIME SENT: [Blank] COOLER #: [Blank]

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-SF-9	10-17-12	1040	AQ	5	HCL	VOLS	X	X										-11
GMW-SF-10		1130		5			X	X										-12
GMW-14		1335		5			X	X										-13
PZ-10		1325		5			X	X										-14
GMW-1		1420		5			X	X										-15
MW-9		1430		5			X	X										-16
Dup-2		-		5			X	X										-17
Dup-3		-		5			X	X										-18
EB-1		1345		5			X	X										-19
EB-2		1335		5			X	X										-20

SAMPLING COMPLETED DATE 10-17-12 TIME 1900 SAMPLING PERFORMED BY Matt Eiferle RESULTS NEEDED NO LATER THAN Standard

RELEASED BY  TIME 1500 RECEIVED BY Nicole (sc) DATE 10/17/12 TIME 1500

RELEASED BY Nicole (sc) TIME 1510 RECEIVED BY DATE 10/18/12 TIME 1510

RELEASED BY  TIME 1510 RECEIVED BY Cembeth Adcox DATE 10-19-12 TIME 11:12

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												
TB-1	10-17-12	0800	AQ	3	HCL	VOLS		X										-2
TB-2	10-17-12	0800	AQ	3	HCL	VOLS		X										-2

SAMPLING COMPLETED DATE 10-17-12 TIME 1500 SAMPLING PERFORMED BY Matt Eiferle RESULTS NEEDED NO LATER THAN Standard

RELEASED BY Matt TIME 1500 RECEIVED BY Nicole (sc) DATE 10/17/12 TIME 1500

RELEASED BY Nicole (sc) TIME 1510 RECEIVED BY [Signature] DATE 10/18/12 TIME 1510

RELEASED BY [Signature] TIME 1510 RECEIVED BY Elizabeth Adcox DATE 10-19-12 TIME 11:12

SHIPPED VIA TIME SENT COOLER #



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135
Date Received : 10/18/12

Job: KMEP DFSP Norwalk

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B

Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID :	EXP-5				
Lab ID :	CHH12101803-01A	TPH-E (DRO)	ND	0.050 mg/L	10/19/12
Date Sampled	10/16/12 07:56	Surr: Nonane	97	(49-145) %REC	10/19/12
		TPH-P (GRO)	ND	0.050 mg/L	10/22/12
		Surr: 1,2-Dichloroethane-d4	89	(70-130) %REC	10/22/12
		Surr: Toluene-d8	102	(70-130) %REC	10/22/12
		Surr: 4-Bromofluorobenzene	95	(70-130) %REC	10/22/12
Client ID :	WCW-3				
Lab ID :	CHH12101803-02A	TPH-E (DRO)	ND	0.050 mg/L	10/19/12
Date Sampled	10/16/12 08:35	Surr: Nonane	101	(49-145) %REC	10/19/12
		TPH-P (GRO)	ND	0.050 mg/L	10/22/12
		Surr: 1,2-Dichloroethane-d4	95	(70-130) %REC	10/22/12
		Surr: Toluene-d8	101	(70-130) %REC	10/22/12
		Surr: 4-Bromofluorobenzene	99	(70-130) %REC	10/22/12
Client ID :	WCW-13				
Lab ID :	CHH12101803-03A	TPH-E (DRO)	ND	0.050 mg/L	10/19/12
Date Sampled	10/16/12 09:14	Surr: Nonane	103	(49-145) %REC	10/19/12
		TPH-P (GRO)	ND	0.050 mg/L	10/22/12
		Surr: 1,2-Dichloroethane-d4	92	(70-130) %REC	10/22/12
		Surr: Toluene-d8	101	(70-130) %REC	10/22/12
		Surr: 4-Bromofluorobenzene	97	(70-130) %REC	10/22/12
Client ID :	GMW-O-24				
Lab ID :	CHH12101803-04A	TPH-E (DRO)	ND	0.050 mg/L	10/19/12
Date Sampled	10/16/12 10:10	Surr: Nonane	110	(49-145) %REC	10/19/12
		TPH-P (GRO)	ND	0.050 mg/L	10/24/12
		Surr: 1,2-Dichloroethane-d4	89	(70-130) %REC	10/24/12
		Surr: Toluene-d8	97	(70-130) %REC	10/24/12
		Surr: 4-Bromofluorobenzene	93	(70-130) %REC	10/24/12
Client ID :	GMW-O-17				
Lab ID :	CHH12101803-05A	TPH-E (DRO)	ND	0.050 mg/L	10/19/12
Date Sampled	10/16/12 11:16	Surr: Nonane	104	(49-145) %REC	10/19/12
		TPH-P (GRO)	ND	0.050 mg/L	10/22/12
		Surr: 1,2-Dichloroethane-d4	93	(70-130) %REC	10/22/12
		Surr: Toluene-d8	100	(70-130) %REC	10/22/12
		Surr: 4-Bromofluorobenzene	96	(70-130) %REC	10/22/12
Client ID :	GMW-O-1				
Lab ID :	CHH12101803-06A	TPH-E (DRO)	ND	0.050 mg/L	10/19/12
Date Sampled	10/16/12 07:55	Surr: Nonane	99	(49-145) %REC	10/19/12
		TPH-P (GRO)	ND	0.050 mg/L	10/22/12
		Surr: 1,2-Dichloroethane-d4	95	(70-130) %REC	10/22/12
		Surr: Toluene-d8	100	(70-130) %REC	10/22/12
		Surr: 4-Bromofluorobenzene	97	(70-130) %REC	10/22/12



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Client ID :	GMW-O-2					
Lab ID :	CHH12101803-07A	TPH-E (DRO)	ND	0.050 mg/L	10/19/12	10/19/12
Date Sampled	10/16/12 08:35	Surr: Nonane	110	(49-145) %REC	10/19/12	10/19/12
		TPH-P (GRO)	ND	0.050 mg/L	10/22/12	10/22/12
		Surr: 1,2-Dichloroethane-d4	94	(70-130) %REC	10/22/12	10/22/12
		Surr: Toluene-d8	100	(70-130) %REC	10/22/12	10/22/12
		Surr: 4-Bromofluorobenzene	96	(70-130) %REC	10/22/12	10/22/12
Client ID :	GMW-O-3					
Lab ID :	CHH12101803-08A	TPH-E (DRO)	ND	0.050 mg/L	10/19/12	10/19/12
Date Sampled	10/16/12 09:10	Surr: Nonane	105	(49-145) %REC	10/19/12	10/19/12
		TPH-P (GRO)	ND	0.050 mg/L	10/22/12	10/22/12
		Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	10/22/12	10/22/12
		Surr: Toluene-d8	98	(70-130) %REC	10/22/12	10/22/12
		Surr: 4-Bromofluorobenzene	95	(70-130) %REC	10/22/12	10/22/12
Client ID :	GMW-O-4					
Lab ID :	CHH12101803-09A	TPH-E (DRO)	ND	0.050 mg/L	10/19/12	10/19/12
Date Sampled	10/16/12 09:50	Surr: Nonane	102	(49-145) %REC	10/19/12	10/19/12
		TPH-P (GRO)	ND	0.050 mg/L	10/22/12	10/22/12
		Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	10/22/12	10/22/12
		Surr: Toluene-d8	98	(70-130) %REC	10/22/12	10/22/12
		Surr: 4-Bromofluorobenzene	94	(70-130) %REC	10/22/12	10/22/12
Client ID :	GMW-O-4 (MID)					
Lab ID :	CHH12101803-10A	TPH-E (DRO)	ND	0.050 mg/L	10/19/12	10/19/12
Date Sampled	10/16/12 10:35	Surr: Nonane	102	(49-145) %REC	10/19/12	10/19/12
		TPH-P (GRO)	ND	0.050 mg/L	10/22/12	10/22/12
		Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	10/22/12	10/22/12
		Surr: Toluene-d8	96	(70-130) %REC	10/22/12	10/22/12
		Surr: 4-Bromofluorobenzene	92	(70-130) %REC	10/22/12	10/22/12
Client ID :	GMW-O-5					
Lab ID :	CHH12101803-11A	TPH-E (DRO)	ND	0.050 mg/L	10/19/12	10/19/12
Date Sampled	10/16/12 11:20	Surr: Nonane	96	(49-145) %REC	10/19/12	10/19/12
		TPH-P (GRO)	ND	0.050 mg/L	10/22/12	10/22/12
		Surr: 1,2-Dichloroethane-d4	96	(70-130) %REC	10/22/12	10/22/12
		Surr: Toluene-d8	97	(70-130) %REC	10/22/12	10/22/12
		Surr: 4-Bromofluorobenzene	93	(70-130) %REC	10/22/12	10/22/12
Client ID :	GMW-O-8					
Lab ID :	CHH12101803-12A	TPH-E (DRO)	ND	0.050 mg/L	10/19/12	10/19/12
Date Sampled	10/16/12 12:30	Surr: Nonane	116	(49-145) %REC	10/19/12	10/19/12
		TPH-P (GRO)	ND	0.050 mg/L	10/22/12	10/22/12
		Surr: 1,2-Dichloroethane-d4	96	(70-130) %REC	10/22/12	10/22/12
		Surr: Toluene-d8	98	(70-130) %REC	10/22/12	10/22/12
		Surr: 4-Bromofluorobenzene	94	(70-130) %REC	10/22/12	10/22/12
Client ID :	GMW-O-9					
Lab ID :	CHH12101803-13A	TPH-E (DRO)	ND	0.050 mg/L	10/19/12	10/20/12
Date Sampled	10/16/12 12:07	Surr: Nonane	106	(49-145) %REC	10/19/12	10/20/12
		TPH-P (GRO)	ND	0.050 mg/L	10/22/12	10/22/12
		Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	10/22/12	10/22/12
		Surr: Toluene-d8	97	(70-130) %REC	10/22/12	10/22/12
		Surr: 4-Bromofluorobenzene	92	(70-130) %REC	10/22/12	10/22/12
Client ID :	GMW-O-19					
Lab ID :	CHH12101803-14A	TPH-E (DRO)	ND	0.050 mg/L	10/19/12	10/20/12
Date Sampled	10/16/12 13:15	Surr: Nonane	109	(49-145) %REC	10/19/12	10/20/12
		TPH-P (GRO)	ND	0.050 mg/L	10/22/12	10/22/12
		Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC	10/22/12	10/22/12
		Surr: Toluene-d8	95	(70-130) %REC	10/22/12	10/22/12
		Surr: 4-Bromofluorobenzene	94	(70-130) %REC	10/22/12	10/22/12



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Client ID :	GMW-13				
Lab ID :	CHH12101803-15A	TPH-E (DRO)	ND	0.050 mg/L	10/19/12 10/20/12
Date Sampled	10/16/12 14:05	Surr: Nonane	107	(49-145) %REC	10/19/12 10/20/12
		TPH-P (GRO)	ND	0.050 mg/L	10/22/12 10/22/12
		Surr: 1,2-Dichloroethane-d4	98	(70-130) %REC	10/22/12 10/22/12
		Surr: Toluene-d8	98	(70-130) %REC	10/22/12 10/22/12
		Surr: 4-Bromofluorobenzene	93	(70-130) %REC	10/22/12 10/22/12
Client ID :	GMW-37				
Lab ID :	CHH12101803-16A	TPH-E (DRO)	ND	0.050 mg/L	10/19/12 10/20/12
Date Sampled	10/16/12 13:25	Surr: Nonane	112	(49-145) %REC	10/19/12 10/20/12
		TPH-P (GRO)	ND	0.050 mg/L	10/22/12 10/22/12
		Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC	10/22/12 10/22/12
		Surr: Toluene-d8	97	(70-130) %REC	10/22/12 10/22/12
		Surr: 4-Bromofluorobenzene	93	(70-130) %REC	10/22/12 10/22/12
Client ID :	GMW-SF-7				
Lab ID :	CHH12101803-17A	TPH-E (DRO)	ND	0.050 mg/L	10/19/12 10/20/12
Date Sampled	10/16/12 14:46	Surr: Nonane	106	(49-145) %REC	10/19/12 10/20/12
		TPH-P (GRO)	ND	0.050 mg/L	10/22/12 10/22/12
		Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	10/22/12 10/22/12
		Surr: Toluene-d8	97	(70-130) %REC	10/22/12 10/22/12
		Surr: 4-Bromofluorobenzene	94	(70-130) %REC	10/22/12 10/22/12
Client ID :	GMW-SF-8				
Lab ID :	CHH12101803-18A	TPH-E (DRO)	ND	0.050 mg/L	10/19/12 10/20/12
Date Sampled	10/16/12 14:04	Surr: Nonane	97	(49-145) %REC	10/19/12 10/20/12
		TPH-P (GRO)	ND	0.050 mg/L	10/22/12 10/22/12
		Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC	10/22/12 10/22/12
		Surr: Toluene-d8	96	(70-130) %REC	10/22/12 10/22/12
		Surr: 4-Bromofluorobenzene	93	(70-130) %REC	10/22/12 10/22/12
Client ID :	HL-2				
Lab ID :	CHH12101803-19A	TPH-E (DRO)	ND	0.050 mg/L	10/19/12 10/20/12
Date Sampled	10/16/12 14:40	Surr: Nonane	109	(49-145) %REC	10/19/12 10/20/12
		TPH-P (GRO)	ND	0.050 mg/L	10/22/12 10/22/12
		Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC	10/22/12 10/22/12
		Surr: Toluene-d8	99	(70-130) %REC	10/22/12 10/22/12
		Surr: 4-Bromofluorobenzene	95	(70-130) %REC	10/22/12 10/22/12
Client ID :	DUP-1				
Lab ID :	CHH12101803-20A	TPH-E (DRO)	ND	0.050 mg/L	10/19/12 10/20/12
Date Sampled	10/16/12 00:00	Surr: Nonane	106	(49-145) %REC	10/19/12 10/20/12
		TPH-P (GRO)	ND	0.050 mg/L	10/22/12 10/22/12
		Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC	10/22/12 10/22/12
		Surr: Toluene-d8	97	(70-130) %REC	10/22/12 10/22/12
		Surr: 4-Bromofluorobenzene	94	(70-130) %REC	10/22/12 10/22/12
Client ID :	EB-1				
Lab ID :	CHH12101803-21A	TPH-E (DRO)	ND	0.050 mg/L	10/19/12 10/19/12
Date Sampled	10/16/12 14:10	Surr: Nonane	92	(49-145) %REC	10/19/12 10/19/12
		TPH-P (GRO)	ND	0.050 mg/L	10/23/12 10/23/12
		Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC	10/23/12 10/23/12
		Surr: Toluene-d8	97	(70-130) %REC	10/23/12 10/23/12
		Surr: 4-Bromofluorobenzene	94	(70-130) %REC	10/23/12 10/23/12
Client ID :	EB-2				
Lab ID :	CHH12101803-22A	TPH-E (DRO)	ND	0.050 mg/L	10/19/12 10/19/12
Date Sampled	10/16/12 10:15	Surr: Nonane	97	(49-145) %REC	10/19/12 10/19/12
		TPH-P (GRO)	ND	0.050 mg/L	10/23/12 10/23/12
		Surr: 1,2-Dichloroethane-d4	104	(70-130) %REC	10/23/12 10/23/12
		Surr: Toluene-d8	97	(70-130) %REC	10/23/12 10/23/12
		Surr: 4-Bromofluorobenzene	99	(70-130) %REC	10/23/12 10/23/12



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Diesel Range Organics (DRO) C13-C22

Gasoline Range Organics (GRO) C4-C13

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered in any way.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

PS

10/26/12

Report Date



Alpha Analytical, Inc.

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ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101803-01A
Client I.D. Number: EXP-5

Sampled: 10/16/12 07:56
Received: 10/18/12
Extracted: 10/22/12
Analyzed: 10/22/12

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	89	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	102	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	95	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101803-02A
Client I.D. Number: WCW-3

Sampled: 10/16/12 08:35
Received: 10/18/12
Extracted: 10/22/12
Analyzed: 10/22/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	1.7	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	95	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	101	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101803-03A
Client I.D. Number: WCW-13

Sampled: 10/16/12 09:14
Received: 10/18/12
Extracted: 10/22/12
Analyzed: 10/22/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	92	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	101	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	97	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101803-04A
Client I.D. Number: GMW-O-24

Sampled: 10/16/12 10:10
Received: 10/18/12
Extracted: 10/24/12
Analyzed: 10/24/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	0.99	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	89	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	97	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	93	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101803-05A
Client I.D. Number: GMW-O-17

Sampled: 10/16/12 11:16
Received: 10/18/12
Extracted: 10/22/12
Analyzed: 10/22/12

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	93	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	100	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	96	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101803-06A
Client I.D. Number: GMW-O-1

Sampled: 10/16/12 07:55
Received: 10/18/12
Extracted: 10/22/12
Analyzed: 10/22/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	95	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	100	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	97	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101803-07A
Client I.D. Number: GMW-O-2

Sampled: 10/16/12 08:35
Received: 10/18/12
Extracted: 10/22/12
Analyzed: 10/22/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	94	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	100	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	96	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

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ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101803-08A
Client I.D. Number: GMW-O-3

Sampled: 10/16/12 09:10
Received: 10/18/12
Extracted: 10/22/12
Analyzed: 10/22/12

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethane	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	98	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	95	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101803-09A
Client I.D. Number: GMW-O-4

Sampled: 10/16/12 09:50
Received: 10/18/12
Extracted: 10/22/12
Analyzed: 10/22/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	98	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	94	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

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JAS
10/26/12

Report Date

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Alpha Analytical, Inc.

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ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101803-10A
Client I.D. Number: GMW-O-4 (MID)

Sampled: 10/16/12 10:35
Received: 10/18/12
Extracted: 10/22/12
Analyzed: 10/22/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	96	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	92	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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[Signature]

10/26/12

Report Date

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101803-11A
Client I.D. Number: GMW-O-5

Sampled: 10/16/12 11:20
Received: 10/18/12
Extracted: 10/22/12
Analyzed: 10/22/12

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	96	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	97	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	93	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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10/26/12

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101803-12A
Client I.D. Number: GMW-O-8

Sampled: 10/16/12 12:30
Received: 10/18/12
Extracted: 10/22/12
Analyzed: 10/22/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	96	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	98	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	94	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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Report Date

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101803-13A
Client I.D. Number: GMW-O-9

Sampled: 10/16/12 12:07
Received: 10/18/12
Extracted: 10/22/12
Analyzed: 10/22/12

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	97	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	92	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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YAG

10/26/12

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Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101803-14A
Client I.D. Number: GMW-O-19

Sampled: 10/16/12 13:15
Received: 10/18/12
Extracted: 10/22/12
Analyzed: 10/22/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	95	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	94	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
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10/26/12

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101803-15A
Client I.D. Number: GMW-13

Sampled: 10/16/12 14:05
Received: 10/18/12
Extracted: 10/22/12
Analyzed: 10/22/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	98	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	98	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	93	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101803-16A
Client I.D. Number: GMW-37

Sampled: 10/16/12 13:25
Received: 10/18/12
Extracted: 10/22/12
Analyzed: 10/22/12

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	97	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	93	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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[Signature]

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101803-17A
Client I.D. Number: GMW-SF-7

Sampled: 10/16/12 14:46
Received: 10/18/12
Extracted: 10/22/12
Analyzed: 10/22/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	97	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	94	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101803-18A
Client I.D. Number: GMW-SF-8

Sampled: 10/16/12 14:04
Received: 10/18/12
Extracted: 10/22/12
Analyzed: 10/22/12

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	1.3	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	96	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	93	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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YJG

10/26/12

Report Date

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101803-19A
Client I.D. Number: HL-2

Sampled: 10/16/12 14:40
Received: 10/18/12
Extracted: 10/22/12
Analyzed: 10/22/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	95	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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[Signature]

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ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101803-20A
Client I.D. Number: DUP-1

Sampled: 10/16/12 00:00
Received: 10/18/12
Extracted: 10/22/12
Analyzed: 10/22/12

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	1.1	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	97	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	94	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

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PS
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ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMFP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101803-21A
Client I.D. Number: EB-1

Sampled: 10/16/12 14:10
Received: 10/18/12
Extracted: 10/23/12
Analyzed: 10/23/12

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L	
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	97	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	94	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101803-22A
Client I.D. Number: EB-2

Sampled: 10/16/12 10:15
Received: 10/18/12
Extracted: 10/23/12
Analyzed: 10/23/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	104	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	97	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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Alpha Analytical, Inc.

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ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101803-23A
Client I.D. Number: TB-1

Sampled: 10/16/12 08:00
Received: 10/18/12
Extracted: 10/23/12
Analyzed: 10/23/12

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	108	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	97	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	92	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered in any way.

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[Signature]

10/26/12

Report Date

Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMFP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101803-24A
Client I.D. Number: TB-2

Sampled: 10/16/12 08:00
Received: 10/18/12
Extracted: 10/23/12
Analyzed: 10/23/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	104	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	98	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	98	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

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[Signature]

10/26/12

Report Date

Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

VOC Sample Preservation Report

Work Order: CHH12101803

Job: KMEP DFSP Norwalk

Alpha's Sample ID	Client's Sample ID	Matrix	pH
12101803-01A	EXP-5	Aqueous	2
12101803-02A	WCW-3	Aqueous	2
12101803-03A	WCW-13	Aqueous	2
12101803-04A	GMW-O-24	Aqueous	2
12101803-05A	GMW-O-17	Aqueous	2
12101803-06A	GMW-O-1	Aqueous	2
12101803-07A	GMW-O-2	Aqueous	2
12101803-08A	GMW-O-3	Aqueous	2
12101803-09A	GMW-O-4	Aqueous	2
12101803-10A	GMW-O-4 (MID)	Aqueous	2
12101803-11A	GMW-O-5	Aqueous	2
12101803-12A	GMW-O-8	Aqueous	2
12101803-13A	GMW-O-9	Aqueous	5
12101803-14A	GMW-O-19	Aqueous	2
12101803-15A	GMW-13	Aqueous	2
12101803-16A	GMW-37	Aqueous	2
12101803-17A	GMW-SF-7	Aqueous	2
12101803-18A	GMW-SF-8	Aqueous	2
12101803-19A	HL-2	Aqueous	2
12101803-20A	DUP-1	Aqueous	2
12101803-21A	EB-1	Aqueous	2
12101803-22A	EB-2	Aqueous	2
12101803-23A	TB-1	Aqueous	2
12101803-24A	TB-2	Aqueous	2

10/26/12

Report Date

Page 1 of 1



Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
26-Oct-12

QC Summary Report

Work Order:
12101803

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8015B/C Ext**

File ID: **7A10191215.D**

Batch ID: **29710**

Analysis Date: **10/19/2012 16:48**

Sample ID: **MBLK-29710**

Units : **mg/L**

Run ID: **FID_7_121019A**

Prep Date: **10/19/2012 12:24**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	ND	0.05								
Surr: Nonane	0.151		0.15		101	49	145			

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8015B/C Ext**

File ID: **7A10191216.D**

Batch ID: **29710**

Analysis Date: **10/19/2012 17:15**

Sample ID: **LCS-29710**

Units : **mg/L**

Run ID: **FID_7_121019A**

Prep Date: **10/19/2012 12:24**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.63	0.05	2.5		105	70	130			
Surr: Nonane	0.162		0.15		108	49	145			

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8015B/C Ext**

File ID: **7A10191240.D**

Batch ID: **29710**

Analysis Date: **10/20/2012 03:58**

Sample ID: **12101803-20AMS**

Units : **mg/L**

Run ID: **FID_7_121019A**

Prep Date: **10/19/2012 12:24**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	3.07	0.05	2.5	0	123	53	150			
Surr: Nonane	0.142		0.15		95	49	145			

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8015B/C Ext**

File ID: **7A10191241.D**

Batch ID: **29710**

Analysis Date: **10/20/2012 04:25**

Sample ID: **12101803-20AMSD**

Units : **mg/L**

Run ID: **FID_7_121019A**

Prep Date: **10/19/2012 12:24**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.76	0.05	2.5	0	111	53	150	3.071	10.6(47)	
Surr: Nonane	0.14		0.15		93	49	145			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
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Date:
26-Oct-12

QC Summary Report

Work Order:
12101803

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8015B/C Ext**

File ID: **1A10191213.D**

Batch ID: **29712**

Analysis Date: **10/19/2012 15:47**

Sample ID: **MBLK-29712**

Units : **mg/L**

Run ID: **FID_1_121019A**

Prep Date: **10/19/2012 12:35**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	ND	0.05								
Surr: Nonane	0.132		0.15		88	49	145			

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8015B/C Ext**

File ID: **1A10191232.D**

Batch ID: **29712**

Analysis Date: **10/19/2012 15:22**

Sample ID: **LCS-29712**

Units : **mg/L**

Run ID: **FID_1_121019A**

Prep Date: **10/19/2012 12:35**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.16	0.05	2.5		87	70	130			
Surr: Nonane	0.152		0.15		101	49	145			

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8015B/C Ext**

File ID: **1A10191232.D**

Batch ID: **29712**

Analysis Date: **10/19/2012 23:52**

Sample ID: **12101645-10AMS**

Units : **mg/L**

Run ID: **FID_1_121019A**

Prep Date: **10/19/2012 12:35**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.72	0.05	2.5	0.121	104	53	150			
Surr: Nonane	0.186		0.15		124	49	145			

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8015B/C Ext**

File ID: **1A10191233.D**

Batch ID: **29712**

Analysis Date: **10/20/2012 00:18**

Sample ID: **12101645-10AMSD**

Units : **mg/L**

Run ID: **FID_1_121019A**

Prep Date: **10/19/2012 12:35**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.61	0.05	2.5	0.121	99.7	53	150	2.717	3.9(47)	
Surr: Nonane	0.146		0.15		97	49	145			

Comments:

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Alpha Analytical, Inc.

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Date:
26-Oct-12

QC Summary Report

Work Order:
12101803

Method Blank

Type: MBLK Test Code: EPA Method SW8015B/C

File ID: C:\HPCHEM\MS10\DATA\121022\12102205.D

Batch ID: MS10W1022B

Analysis Date: 10/22/2012 12:58

Sample ID: MBLK MS10W1022B

Units: mg/L

Run ID: MSD_10_121022A

Prep Date: 10/22/2012 12:58

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	0.05								
Surr: 1,2-Dichloroethane-d4	0.0086		0.01		86	70	130			
Surr: Toluene-d8	0.0106		0.01		106	70	130			
Surr: 4-Bromofluorobenzene	0.00977		0.01		98	70	130			

Laboratory Control Spike

Type: LCS Test Code: EPA Method SW8015B/C

File ID: C:\HPCHEM\MS10\DATA\121022\12102203.D

Batch ID: MS10W1022B

Analysis Date: 10/22/2012 12:09

Sample ID: GLCS MS10W1022B

Units: mg/L

Run ID: MSD_10_121022A

Prep Date: 10/22/2012 12:09

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.362	0.05	0.4		90	70	130			
Surr: 1,2-Dichloroethane-d4	0.00943		0.01		94	70	130			
Surr: Toluene-d8	0.0102		0.01		102	70	130			
Surr: 4-Bromofluorobenzene	0.0103		0.01		103	70	130			

Sample Matrix Spike

Type: MS Test Code: EPA Method SW8015B/C

File ID: C:\HPCHEM\MS10\DATA\121022\12102218.D

Batch ID: MS10W1022B

Analysis Date: 10/22/2012 17:35

Sample ID: 12101803-01AGS

Units: mg/L

Run ID: MSD_10_121022A

Prep Date: 10/22/2012 17:35

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.81	0.25	2	0	90	51	144			
Surr: 1,2-Dichloroethane-d4	0.0485		0.05		97	70	130			
Surr: Toluene-d8	0.0489		0.05		98	70	130			
Surr: 4-Bromofluorobenzene	0.0502		0.05		100	70	130			

Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8015B/C

File ID: C:\HPCHEM\MS10\DATA\121022\12102219.D

Batch ID: MS10W1022B

Analysis Date: 10/22/2012 17:56

Sample ID: 12101803-01AGSD

Units: mg/L

Run ID: MSD_10_121022A

Prep Date: 10/22/2012 17:56

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.75	0.25	2	0	87	51	144	1.806	3.2(29)	
Surr: 1,2-Dichloroethane-d4	0.0481		0.05		96	70	130			
Surr: Toluene-d8	0.05		0.05		100	70	130			
Surr: 4-Bromofluorobenzene	0.0519		0.05		104	70	130			

Comments:

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Date:
26-Oct-12

QC Summary Report

Work Order:
12101803

Method Blank

Type: MBLK Test Code: EPA Method SW8015B/C

File ID: C:\HPCHEM\MS10\DATA\121023\12102305.D

Batch ID: MS10W1023B

Analysis Date: 10/23/2012 13:02

Sample ID: MBLK MS10W1023B

Units : mg/L

Run ID: MSD_10_121023A

Prep Date: 10/23/2012 13:02

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	0.05								
Surr: 1,2-Dichloroethane-d4	0.00971		0.01		97	70	130			
Surr: Toluene-d8	0.00969		0.01		97	70	130			
Surr: 4-Bromofluorobenzene	0.00983		0.01		98	70	130			

Laboratory Control Spike

Type: LCS Test Code: EPA Method SW8015B/C

File ID: C:\HPCHEM\MS10\DATA\121023\12102303.D

Batch ID: MS10W1023B

Analysis Date: 10/23/2012 12:16

Sample ID: GLCS MS10W1023B

Units : mg/L

Run ID: MSD_10_121023A

Prep Date: 10/23/2012 12:16

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.419	0.05	0.4		105	70	130			
Surr: 1,2-Dichloroethane-d4	0.00997		0.01		99.7	70	130			
Surr: Toluene-d8	0.0098		0.01		98	70	130			
Surr: 4-Bromofluorobenzene	0.0104		0.01		104	70	130			

Sample Matrix Spike

Type: MS Test Code: EPA Method SW8015B/C

File ID: C:\HPCHEM\MS10\DATA\121023\12102314.D

Batch ID: MS10W1023B

Analysis Date: 10/23/2012 16:15

Sample ID: 12102202-06AGS

Units : mg/L

Run ID: MSD_10_121023A

Prep Date: 10/23/2012 16:15

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.64	0.25	2	0	82	51	144			
Surr: 1,2-Dichloroethane-d4	0.0527		0.05		105	70	130			
Surr: Toluene-d8	0.0502		0.05		100	70	130			
Surr: 4-Bromofluorobenzene	0.0534		0.05		107	70	130			

Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8015B/C

File ID: C:\HPCHEM\MS10\DATA\121023\12102315.D

Batch ID: MS10W1023B

Analysis Date: 10/23/2012 16:36

Sample ID: 12102202-06AGSD

Units : mg/L

Run ID: MSD_10_121023A

Prep Date: 10/23/2012 16:36

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.87	0.25	2	0	93	51	144	1.637	13.0(29)	
Surr: 1,2-Dichloroethane-d4	0.0493		0.05		99	70	130			
Surr: Toluene-d8	0.05		0.05		100	70	130			
Surr: 4-Bromofluorobenzene	0.0535		0.05		107	70	130			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
26-Oct-12

QC Summary Report

Work Order:
12101803

n-Butylbenzene	ND	1				
1,2-Dibromo-3-chloropropane (DBCP)	ND	5				
1,2,4-Trichlorobenzene	ND	2				
Naphthalene	ND	10				
1,2,3-Trichlorobenzene	ND	2				
Xylenes, Total	ND	0.5				
Surr: 1,2-Dichloroethane-d4	8.6		10	86	70	130
Surr: Toluene-d8	10.6		10	106	70	130
Surr: 4-Bromofluorobenzene	9.77		10	98	70	130



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Date:
26-Oct-12

QC Summary Report

Work Order:
12101803

Laboratory Control Spike

Type: LCS

Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\121022\12102202.D

Batch ID: MS10W1022A

Analysis Date: 10/22/2012 11:48

Sample ID: LCS MS10W1022A

Units: µg/L

Run ID: MSD_10_121022A

Prep Date: 10/22/2012 11:48

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	8.34	1	10		83	37	137			
Chloromethane	11.2	2	10		112	43	140			
Vinyl chloride	8.69	1	10		87	80	120			
Chloroethane	8.76	1	10		88	43	141			
Bromomethane	10.4	2	10		104	11	160			
Trichlorofluoromethane	8.23	1	10		82	40	148			
Acetone	193	10	200		97	36	171			
1,1-Dichloroethene	10.4	1	10		104	80	120			
Tertiary Butyl Alcohol (TBA)	93.3	10	100		93	44	156			
Dichloromethane	9.51	2	10		95	69	130			
Freon-113	9.69	1	10		97	70	137			
trans-1,2-Dichloroethene	10.6	1	10		106	70	130			
Methyl tert-butyl ether (MTBE)	8.06	0.5	10		81	65	140			
1,1-Dichloroethane	9.51	1	10		95	70	130			
2-Butanone (MEK)	185	10	200		92	23	182			
Di-isopropyl Ether (DIPE)	9.97	1	10		99.7	70	130			
cis-1,2-Dichloroethene	10.4	1	10		104	70	130			
Bromochloromethane	10.2	1	10		102	70	132			
Chloroform	9.2	1	10		92	80	120			
Ethyl Tertiary Butyl Ether (ETBE)	8.93	1	10		89	65	139			
2,2-Dichloropropane	9.91	1	10		99	68	154			
1,2-Dichloroethane	7.25	1	10		73	70	132			
1,1,1-Trichloroethane	8.95	1	10		90	70	135			
1,1-Dichloropropene	9.83	1	10		98	70	130			
Carbon tetrachloride	8.7	1	10		87	61	148			
Benzene	9.53	0.5	10		95	70	130			
Tertiary Amyl Methyl Ether (TAME)	8.42	1	10		84	68	134			
Dibromomethane	8.98	1	10		90	70	130			
1,2-Dichloropropane	8.17	1	10		82	80	120			
Trichloroethene	10.1	1	10		101	65	144			
Bromodichloromethane	9.2	1	10		92	50	157			
4-Methyl-2-pentanone (MIBK)	23.6	2.5	25		95	20	182			
cis-1,3-Dichloropropene	9.5	1	10		95	70	131			
trans-1,3-Dichloropropene	9.19	1	10		92	70	136			
1,1,2-Trichloroethane	9.79	1	10		98	70	130			
Toluene	10.5	0.5	10		105	80	120			
1,3-Dichloropropane	9.48	1	10		95	70	130			
2-Hexanone	118	5	100		118	20	182			
Dibromochloromethane	9.84	1	10		98	42	155			
1,2-Dibromoethane (EDB)	19.6	2	20		98	70	130			
Tetrachloroethene	11.1	1	10		111	70	130			
1,1,1,2-Tetrachloroethane	9.96	1	10		99.6	70	130			
Chlorobenzene	11.3	1	10		113	70	130			
Ethylbenzene	10.8	0.5	10		108	80	120			
m,p-Xylene	10.4	0.5	10		104	70	130			
Bromoform	9.54	1	10		95	68	143			
Styrene	11.6	1	10		116	64	153			
o-Xylene	10.5	0.5	10		105	70	130			
1,1,2,2-Tetrachloroethane	9.97	1	10		99.7	70	130			
1,2,3-Trichloropropane	18.1	2	20		90	70	130			
Isopropylbenzene	10.8	1	10		108	68	138			
Bromobenzene	10.8	1	10		108	70	130			
n-Propylbenzene	11.3	1	10		113	70	133			
4-Chlorotoluene	10.6	1	10		106	70	130			
2-Chlorotoluene	10.6	1	10		106	70	130			
1,3,5-Trimethylbenzene	10.1	1	10		101	70	134			
tert-Butylbenzene	10.6	1	10		106	55	147			
1,2,4-Trimethylbenzene	10	1	10		100	70	134			
sec-Butylbenzene	11.1	1	10		111	70	135			
1,3-Dichlorobenzene	10.3	1	10		103	70	130			
1,4-Dichlorobenzene	10	1	10		100	70	130			
4-Isopropyltoluene	10.7	1	10		107	70	132			
1,2-Dichlorobenzene	10	1	10		100	70	130			
n-Butylbenzene	11	1	10		110	70	134			
1,2-Dibromo-3-chloropropane (DBCP)	47	3	50		94	67	130			



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QC Summary Report

Work Order:
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1,2,4-Trichlorobenzene	8.71	2	10	87	67	132
Naphthalene	8.9	2	10	89	38	154
1,2,3-Trichlorobenzene	8.08	2	10	81	56	137
Xylenes, Total	21	0.5	20	105	70	130
Surr: 1,2-Dichloroethane-d4	10.9		10	109	70	130
Surr: Toluene-d8	10.4		10	104	70	130
Surr: 4-Bromofluorobenzene	10.6		10	106	70	130



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QC Summary Report

Work Order:
12101803

Sample Matrix Spike

Type: MS

Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\121022\12102216.D

Batch ID: MS10W1022A

Analysis Date: 10/22/2012 16:52

Sample ID: 12101803-01AMS

Units: µg/L

Run ID: MSD_10_121022A

Prep Date: 10/22/2012 16:52

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	30.4	2.5	50	0	61	21	138			
Chloromethane	47.9	10	50	0	96	23	144			
Vinyl chloride	36.7	2.5	50	0	73	49	136			
Chloroethane	39.8	2.5	50	0	80	21	159			
Bromomethane	41.4	10	50	0	83	10	174			
Trichlorofluoromethane	34.8	2.5	50	0	70	32	154			
Acetone	926	50	1000	0	93	10	171			
1,1-Dichloroethene	43.2	2.5	50	0	86	64	130			
Tertiary Butyl Alcohol (TBA)	454	25	500	0	91	41	157			
Dichloromethane	43.7	10	50	0	87	69	130			
Freon-113	42.7	2.5	50	0	85	55	141			
trans-1,2-Dichloroethene	45.4	2.5	50	0	91	63	130			
Methyl tert-butyl ether (MTBE)	35.5	1.3	50	0	71	47	150			
1,1-Dichloroethane	41.6	2.5	50	0	83	66	130			
2-Butanone (MEK)	868	50	1000	0	87	23	182			
Di-isopropyl Ether (DIPE)	45.3	2.5	50	0	91	59	139			
cis-1,2-Dichloroethene	45	2.5	50	0	90	70	130			
Bromochloromethane	43.5	2.5	50	0	87	70	132			
Chloroform	41.7	2.5	50	0	83	70	130			
Ethyl Tertiary Butyl Ether (ETBE)	40.4	2.5	50	0	81	59	182			
2,2-Dichloropropane	39.5	2.5	50	0	79	38	154			
1,2-Dichloroethane	34.3	2.5	50	0	69	65	134			
1,1,1-Trichloroethane	39.5	2.5	50	0	79	65	136			
1,1-Dichloropropene	43.4	2.5	50	0	87	68	132			
Carbon tetrachloride	38.2	2.5	50	0	76	58	148			
Benzene	42	1.3	50	0	84	59	138			
Tertiary Amyl Methyl Ether (TAME)	38.2	2.5	50	0	76	63	135			
Dibromomethane	42.3	2.5	50	0	85	70	130			
1,2-Dichloropropane	37.5	2.5	50	0	75	70	131			
Trichloroethene	43	2.5	50	0	86	65	144			
Bromodichloromethane	42.2	2.5	50	0	84	50	157			
4-Methyl-2-pentanone (MIBK)	114	13	125	0	91	20	182			
cis-1,3-Dichloropropene	38.3	2.5	50	0	77	63	131			
trans-1,3-Dichloropropene	40.5	2.5	50	0	81	65	136			
1,1,2-Trichloroethane	47.5	2.5	50	0	95	70	131			
Toluene	43.9	1.3	50	0	88	68	130			
1,3-Dichloropropane	41.5	2.5	50	0	83	70	130			
2-Hexanone	412	25	500	0	82	20	182			
Dibromochloromethane	43.4	2.5	50	0	87	42	155			
1,2-Dibromoethane (EDB)	87.8	5	100	0	88	70	130			
Tetrachloroethene	44.9	2.5	50	0	90	65	130			
1,1,1,2-Tetrachloroethane	42.9	2.5	50	0	86	70	130			
Chlorobenzene	49.7	2.5	50	0	99	70	130			
Ethylbenzene	47	1.3	50	0	94	68	130			
m,p-Xylene	45.6	1.3	50	0	91	68	131			
Bromoform	44	2.5	50	0	88	65	143			
Styrene	52.1	2.5	50	0	104	59	153			
o-Xylene	47.6	1.3	50	0	95	70	130			
1,1,2,2-Tetrachloroethane	52.3	2.5	50	0	105	67	130			
1,2,3-Trichloropropane	90.6	10	100	0	91	70	130			
Isopropylbenzene	45.4	2.5	50	0	91	55	138			
Bromobenzene	46.2	2.5	50	0	92	70	130			
n-Propylbenzene	47.3	2.5	50	0	95	67	133			
4-Chlorotoluene	45.4	2.5	50	0	91	70	130			
2-Chlorotoluene	45.7	2.5	50	0	91	70	130			
1,3,5-Trimethylbenzene	43.9	2.5	50	0	88	67	134			
tert-Butylbenzene	45.3	2.5	50	0	91	55	147			
1,2,4-Trimethylbenzene	43.7	2.5	50	0	87	65	135			
sec-Butylbenzene	46.1	2.5	50	0	92	68	135			
1,3-Dichlorobenzene	45	2.5	50	0	90	70	130			
1,4-Dichlorobenzene	44.8	2.5	50	0	90	70	130			
4-Isopropyltoluene	45.1	2.5	50	0	90	68	132			
1,2-Dichlorobenzene	44.9	2.5	50	0	90	70	130			
n-Butylbenzene	46	2.5	50	0	92	62	134			
1,2-Dibromo-3-chloropropane (DBCP)	219	15	250	0	88	64	130			



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QC Summary Report

Work Order:
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1,2,4-Trichlorobenzene	38.8	10	50	0	78	62	133
Naphthalene	39.4	10	50	0	79	32	166
1,2,3-Trichlorobenzene	38	10	50	0	76	55	138
Xylenes, Total	93.2	1.3	100	0	93	70	130
Surr: 1,2-Dichloroethane-d4	56.4		50		113	70	130
Surr: Toluene-d8	49.3		50		99	70	130
Surr: 4-Bromofluorobenzene	51.1		50		102	70	130



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Date:
26-Oct-12

QC Summary Report

Work Order:
12101803

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\121022\12102217.D**

Batch ID: **MS10W1022A**

Analysis Date: **10/22/2012 17:13**

Sample ID: **12101803-01AMSD**

Units: **µg/L**

Run ID: **MSD_10_121022A**

Prep Date: **10/22/2012 17:13**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	25.5	2.5	50	0	51	21	138	30.35	17.4(33)	
Chloromethane	44.3	10	50	0	89	23	144	47.94	8.0(27)	
Vinyl chloride	32.9	2.5	50	0	66	49	136	36.66	10.7(21)	
Chloroethane	33.2	2.5	50	0	66	21	159	39.82	18.0(40)	
Bromomethane	39.6	10	50	0	79	10	174	41.44	4.6(40)	
Trichlorofluoromethane	32.7	2.5	50	0	65	32	154	34.82	6.4(37)	
Acetone	853	50	1000	0	85	10	171	925.7	8.2(23)	
1,1-Dichloroethene	39	2.5	50	0	78	64	130	43.17	10.2(21)	
Tertiary Butyl Alcohol (TBA)	405	25	500	0	81	41	157	454.3	11.4(30)	
Dichloromethane	40.3	10	50	0	81	69	130	43.65	8.1(20)	
Freon-113	36.4	2.5	50	0	73	55	141	42.72	15.9(40)	
trans-1,2-Dichloroethene	41	2.5	50	0	82	63	130	45.44	10.3(20)	
Methyl tert-butyl ether (MTBE)	33	1.3	50	0	66	47	150	35.5	7.5(40)	
1,1-Dichloroethane	37.8	2.5	50	0	76	66	130	41.6	9.5(20)	
2-Butanone (MEK)	798	50	1000	0	80	23	182	868.2	8.4(22)	
Di-isopropyl Ether (DIPE)	41.7	2.5	50	0	83	59	139	45.27	8.3(20)	
cis-1,2-Dichloroethene	41	2.5	50	0	82	70	130	44.95	9.1(20)	
Bromochloromethane	40.9	2.5	50	0	82	70	132	43.47	6.1(20)	
Chloroform	37.6	2.5	50	0	75	70	130	41.7	10.3(20)	
Ethyl Tertiary Butyl Ether (ETBE)	37.3	2.5	50	0	75	59	182	40.39	8.0(40)	
2,2-Dichloropropane	35.6	2.5	50	0	71	38	154	39.5	10.4(22)	
1,2-Dichloroethane	31.5	2.5	50	0	63	65	134	34.28	8.3(20)	M2
1,1,1-Trichloroethane	35.8	2.5	50	0	72	65	136	39.5	9.7(20)	
1,1-Dichloropropene	38.5	2.5	50	0	77	68	132	43.42	12.0(20)	
Carbon tetrachloride	33.4	2.5	50	0	67	58	148	38.16	13.3(20)	
Benzene	38	1.3	50	0	76	59	138	42	10.0(21)	
Tertiary Amyl Methyl Ether (TAME)	34.4	2.5	50	0	69	63	135	38.2	10.5(40)	
Dibromomethane	38.8	2.5	50	0	78	70	130	42.31	8.7(20)	
1,2-Dichloropropane	34.2	2.5	50	0	68	70	131	37.48	9.3(20)	M2
Trichloroethene	38.9	2.5	50	0	78	65	144	42.98	10.0(20)	
Bromodichloromethane	37.4	2.5	50	0	75	50	157	42.22	12.0(20)	
4-Methyl-2-pentanone (MIBK)	92.9	13	125	0	74	20	182	113.7	20.1(20)	R5
cis-1,3-Dichloropropene	35.2	2.5	50	0	70	63	131	38.34	8.5(20)	
trans-1,3-Dichloropropene	36.6	2.5	50	0	73	65	136	40.49	10.0(20)	
1,1,2-Trichloroethane	43.5	2.5	50	0	87	70	131	47.5	8.7(20)	
Toluene	40.2	1.3	50	0	80	68	130	43.93	8.8(20)	
1,3-Dichloropropane	39	2.5	50	0	78	70	130	41.52	6.2(20)	
2-Hexanone	387	25	500	0	77	20	182	412.4	6.3(20)	
Dibromochloromethane	40.5	2.5	50	0	81	42	155	43.39	6.9(20)	
1,2-Dibromoethane (EDB)	82.7	5	100	0	83	70	130	87.78	5.9(20)	
Tetrachloroethene	40.9	2.5	50	0	82	65	130	44.89	9.4(20)	
1,1,1,2-Tetrachloroethane	40	2.5	50	0	80	70	130	42.86	6.8(20)	
Chlorobenzene	45.8	2.5	50	0	92	70	130	49.65	8.2(20)	
Ethylbenzene	42.2	1.3	50	0	84	68	130	46.96	10.7(20)	
m,p-Xylene	40.9	1.3	50	0	82	68	131	45.6	10.9(20)	
Bromoform	41.5	2.5	50	0	83	65	143	44.02	5.9(20)	
Styrene	47.5	2.5	50	0	95	59	153	52.11	9.3(37)	
o-Xylene	42.9	1.3	50	0	86	70	130	47.6	10.5(20)	
1,1,2,2-Tetrachloroethane	48.1	2.5	50	0	96	67	130	52.33	8.5(20)	
1,2,3-Trichloropropane	84.2	10	100	0	84	70	130	90.55	7.3(20)	
Isopropylbenzene	42.6	2.5	50	0	85	55	138	45.37	6.4(20)	
Bromobenzene	43.9	2.5	50	0	88	70	130	46.2	5.1(20)	
n-Propylbenzene	44.1	2.5	50	0	88	67	133	47.27	7.0(30)	
4-Chlorotoluene	42.5	2.5	50	0	85	70	130	45.35	6.4(20)	
2-Chlorotoluene	43.1	2.5	50	0	86	70	130	45.7	5.9(20)	
1,3,5-Trimethylbenzene	41	2.5	50	0	82	67	134	43.85	6.8(21)	
tert-Butylbenzene	42.6	2.5	50	0	85	55	147	45.31	6.1(20)	
1,2,4-Trimethylbenzene	41	2.5	50	0	82	65	135	43.69	6.4(25)	
sec-Butylbenzene	43.9	2.5	50	0	88	68	135	46.14	4.9(20)	
1,3-Dichlorobenzene	42.6	2.5	50	0	85	70	130	44.98	5.4(20)	
1,4-Dichlorobenzene	41.8	2.5	50	0	84	70	130	44.77	6.8(20)	
4-Isopropyltoluene	42.7	2.5	50	0	85	68	132	45.11	5.5(20)	
1,2-Dichlorobenzene	42.5	2.5	50	0	85	70	130	44.92	5.6(20)	
n-Butylbenzene	44	2.5	50	0	88	62	134	46.03	4.6(21)	



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Date:	QC Summary Report								Work Order:
26-Oct-12									12101803
1,2-Dibromo-3-chloropropane (DBCP)	212	15	250	0	85	64	130	218.9	3.0(20)
1,2,4-Trichlorobenzene	37.8	10	50	0	76	62	133	38.77	2.5(29)
Naphthalene	38.8	10	50	0	78	32	166	39.43	1.5(40)
1,2,3-Trichlorobenzene	36.8	10	50	0	74	55	138	37.98	3.3(36)
Xylenes, Total	83.7	1.3	100	0	84	70	130	93.2	10.7(20)
Surr: 1,2-Dichloroethane-d4	55.2		50		110	70	130		
Surr: Toluene-d8	49.8		50		99.6	70	130		
Surr: 4-Bromofluorobenzene	52.3		50		105	70	130		

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M2 = Matrix spike recovery was low, the method control sample recovery was acceptable.

R5 = MS/MSD RPD exceeded the laboratory control limit. Recovery met acceptance criteria.



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Date:
26-Oct-12

QC Summary Report

Work Order:
12101803

n-Butylbenzene	ND	1				
1,2-Dibromo-3-chloropropane (DBCP)	ND	5				
1,2,4-Trichlorobenzene	ND	2				
Naphthalene	ND	10				
1,2,3-Trichlorobenzene	ND	2				
Xylenes, Total	ND	0.5				
Surr: 1,2-Dichloroethane-d4	9.71		10	97	70	130
Surr: Toluene-d8	9.69		10	97	70	130
Surr: 4-Bromofluorobenzene	9.83		10	98	70	130



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Date:
26-Oct-12

QC Summary Report

Work Order:
12101803

Laboratory Control Spike

Type: LCS

Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\121023\12102302.D

Batch ID: MS10W1023A

Analysis Date: 10/23/2012 11:55

Sample ID: LCS MS10W1023A

Units: µg/L

Run ID: MSD_10_121023A

Prep Date: 10/23/2012 11:55

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	8.9	1	10		89	37	137			
Chloromethane	12.2	2	10		122	43	140			
Vinyl chloride	8.85	1	10		89	80	120			
Chloroethane	9.83	1	10		98	43	141			
Bromomethane	11.2	2	10		112	11	160			
Trichlorofluoromethane	8.72	1	10		87	40	148			
Acetone	207	10	200		104	36	171			
1,1-Dichloroethene	10.2	1	10		102	80	120			
Tertiary Butyl Alcohol (TBA)	90.5	10	100		91	44	156			
Dichloromethane	9.98	2	10		99.8	69	130			
Freon-113	10.2	1	10		102	70	137			
trans-1,2-Dichloroethene	10.5	1	10		105	70	130			
Methyl tert-butyl ether (MTBE)	8.17	0.5	10		82	65	140			
1,1-Dichloroethane	9.8	1	10		98	70	130			
2-Butanone (MEK)	188	10	200		94	23	182			
Di-isopropyl Ether (DIPE)	10.2	1	10		102	70	130			
cis-1,2-Dichloroethene	10.5	1	10		105	70	130			
Bromochloromethane	10.1	1	10		101	70	132			
Chloroform	9.67	1	10		97	80	120			
Ethyl Tertiary Butyl Ether (ETBE)	9.13	1	10		91	65	139			
2,2-Dichloropropane	10.4	1	10		104	68	154			
1,2-Dichloroethane	7.97	1	10		80	70	132			
1,1,1-Trichloroethane	9.44	1	10		94	70	135			
1,1-Dichloropropene	10.3	1	10		103	70	130			
Carbon tetrachloride	9.23	1	10		92	61	148			
Benzene	9.8	0.5	10		98	70	130			
Tertiary Amyl Methyl Ether (TAME)	8.42	1	10		84	68	134			
Dibromomethane	9.47	1	10		95	70	130			
1,2-Dichloropropane	8.87	1	10		89	80	120			
Trichloroethene	10	1	10		100	65	144			
Bromodichloromethane	9.82	1	10		98	50	157			
4-Methyl-2-pentanone (MIBK)	22.8	2.5	25		91	20	182			
cis-1,3-Dichloropropene	9.81	1	10		98	70	131			
trans-1,3-Dichloropropene	9.75	1	10		98	70	136			
1,1,2-Trichloroethane	10.6	1	10		106	70	130			
Toluene	10.2	0.5	10		102	80	120			
1,3-Dichloropropane	9.36	1	10		94	70	130			
2-Hexanone	117	5	100		117	20	182			
Dibromochloromethane	9.81	1	10		98	42	155			
1,2-Dibromoethane (EDB)	19	2	20		95	70	130			
Tetrachloroethene	10.4	1	10		104	70	130			
1,1,1,2-Tetrachloroethane	9.65	1	10		97	70	130			
Chlorobenzene	11.2	1	10		112	70	130			
Ethylbenzene	10.7	0.5	10		107	80	120			
m,p-Xylene	10.5	0.5	10		105	70	130			
Bromoform	9.76	1	10		98	68	143			
Styrene	11.6	1	10		116	64	153			
o-Xylene	10.6	0.5	10		106	70	130			
1,1,2,2-Tetrachloroethane	10.6	1	10		106	70	130			
1,2,3-Trichloropropane	19.1	2	20		96	70	130			
Isopropylbenzene	10.6	1	10		106	68	138			
Bromobenzene	10.4	1	10		104	70	130			
n-Propylbenzene	11.1	1	10		111	70	133			
4-Chlorotoluene	10.4	1	10		104	70	130			
2-Chlorotoluene	10.6	1	10		106	70	130			
1,3,5-Trimethylbenzene	10.3	1	10		103	70	134			
tert-Butylbenzene	10.6	1	10		106	55	147			
1,2,4-Trimethylbenzene	10.1	1	10		101	70	134			
sec-Butylbenzene	11	1	10		110	70	135			
1,3-Dichlorobenzene	10.3	1	10		103	70	130			
1,4-Dichlorobenzene	10	1	10		100	70	130			
4-Isopropyltoluene	10.7	1	10		107	70	132			
1,2-Dichlorobenzene	10.1	1	10		101	70	130			
n-Butylbenzene	11.2	1	10		112	70	134			
1,2-Dibromo-3-chloropropane (DBCP)	47.5	3	50		95	67	130			



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QC Summary Report

Work Order:
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1,2,4-Trichlorobenzene	8.49	2	10	85	67	132
Naphthalene	7.96	2	10	80	38	154
1,2,3-Trichlorobenzene	8.15	2	10	82	56	137
Xylenes, Total	21.2	0.5	20	106	70	130
Surr: 1,2-Dichloroethane-d4	12.1		10	121	70	130
Surr: Toluene-d8	9.94		10	99	70	130
Surr: 4-Bromofluorobenzene	10.3		10	103	70	130



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26-Oct-12

QC Summary Report

Work Order:
12101803

Sample Matrix Spike

Type: MS Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\121023\12102312.D

Batch ID: MS10W1023A

Analysis Date: 10/23/2012 15:32

Sample ID: 12102202-06AMS

Units: µg/L

Run ID: MSD_10_121023A

Prep Date: 10/23/2012 15:32

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	45.1	2.5	50	0	90	21	138			
Chloromethane	56.9	10	50	0	114	23	144			
Vinyl chloride	41.5	2.5	50	0	83	49	136			
Chloroethane	42.3	2.5	50	0	85	21	159			
Bromomethane	43.9	10	50	0	88	10	174			
Trichlorofluoromethane	41.7	2.5	50	0	83	32	154			
Acetone	914	50	1000	0	91	10	171			
1,1-Dichloroethene	46.1	2.5	50	0	92	64	130			
Tertiary Butyl Alcohol (TBA)	478	25	500	0	96	41	157			
Dichloromethane	46.3	10	50	0	93	69	130			
Freon-113	43.9	2.5	50	0	88	55	141			
trans-1,2-Dichloroethene	46.6	2.5	50	0	93	63	130			
Methyl tert-butyl ether (MTBE)	37	1.3	50	0	74	47	150			
1,1-Dichloroethane	43.9	2.5	50	0	88	66	130			
2-Butanone (MEK)	866	50	1000	0	87	23	182			
Di-isopropyl Ether (DIPE)	46.8	2.5	50	0	94	59	139			
cis-1,2-Dichloroethene	46.6	2.5	50	0	93	70	130			
Bromochloromethane	45.3	2.5	50	0	91	70	132			
Chloroform	43.3	2.5	50	0	87	70	130			
Ethyl Tertiary Butyl Ether (ETBE)	41.9	2.5	50	0	84	59	182			
2,2-Dichloropropane	43.1	2.5	50	0	86	38	154			
1,2-Dichloroethane	36.3	2.5	50	0	73	65	134			
1,1,1-Trichloroethane	41.9	2.5	50	0	84	65	136			
1,1-Dichloropropene	45.2	2.5	50	0	90	68	132			
Carbon tetrachloride	40.3	2.5	50	0	81	58	148			
Benzene	42.9	1.3	50	0	86	59	138			
Tertiary Amyl Methyl Ether (TAME)	38.8	2.5	50	0	78	63	135			
Dibromomethane	43	2.5	50	0	86	70	130			
1,2-Dichloropropane	38.9	2.5	50	0	78	70	131			
Trichloroethene	44	2.5	50	0	88	65	144			
Bromodichloromethane	44.1	2.5	50	0	88	50	157			
4-Methyl-2-pentanone (MIBK)	114	13	125	0	91	20	182			
cis-1,3-Dichloropropene	39.9	2.5	50	0	80	63	131			
trans-1,3-Dichloropropene	42.1	2.5	50	0	84	65	136			
1,1,2-Trichloroethane	47.5	2.5	50	0	95	70	131			
Toluene	43	1.3	50	0	86	68	130			
1,3-Dichloropropane	41.7	2.5	50	0	83	70	130			
2-Hexanone	399	25	500	0	80	20	182			
Dibromochloromethane	43.4	2.5	50	0	87	42	155			
1,2-Dibromoethane (EDB)	85	5	100	0	85	70	130			
Tetrachloroethene	43.8	2.5	50	0	88	65	130			
1,1,1,2-Tetrachloroethane	42.4	2.5	50	0	85	70	130			
Chlorobenzene	48.3	2.5	50	0	97	70	130			
Ethylbenzene	45.2	1.3	50	0	90	68	130			
m,p-Xylene	44.3	1.3	50	0	89	68	131			
Bromoform	42.7	2.5	50	0	85	65	143			
Styrene	50.5	2.5	50	0	101	59	153			
o-Xylene	45.6	1.3	50	0	91	70	130			
1,1,2,2-Tetrachloroethane	49.2	2.5	50	0	98	67	130			
1,2,3-Trichloropropane	87.5	10	100	0	87	70	130			
Isopropylbenzene	45.5	2.5	50	0	91	55	138			
Bromobenzene	45.4	2.5	50	0	91	70	130			
n-Propylbenzene	46.8	2.5	50	0	94	67	133			
4-Chlorotoluene	44.9	2.5	50	0	90	70	130			
2-Chlorotoluene	45.4	2.5	50	0	91	70	130			
1,3,5-Trimethylbenzene	43.4	2.5	50	0	87	67	134			
tert-Butylbenzene	45.2	2.5	50	0	90	55	147			
1,2,4-Trimethylbenzene	43.3	2.5	50	0	87	65	135			
sec-Butylbenzene	46.3	2.5	50	0	93	68	135			
1,3-Dichlorobenzene	44	2.5	50	0	88	70	130			
1,4-Dichlorobenzene	43	2.5	50	0	86	70	130			
4-Isopropyltoluene	44.8	2.5	50	0	90	68	132			
1,2-Dichlorobenzene	43.6	2.5	50	0	87	70	130			
n-Butylbenzene	46.5	2.5	50	0	93	62	134			
1,2-Dibromo-3-chloropropane (DBCP)	209	15	250	0	84	64	130			



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Date:
26-Oct-12

QC Summary Report

Work Order:
12101803

1,2,4-Trichlorobenzene	36.9	10	50	0	74	62	133
Naphthalene	37.3	10	50	0	75	32	166
1,2,3-Trichlorobenzene	35.4	10	50	0	71	55	138
Xylenes, Total	89.9	1.3	100	0	90	70	130
Surr: 1,2-Dichloroethane-d4	60.2		50		120	70	130
Surr: Toluene-d8	48		50		96	70	130
Surr: 4-Bromofluorobenzene	50.9		50		102	70	130



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Date:
26-Oct-12

QC Summary Report

Work Order:
12101803

Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\121023\12102313.D

Batch ID: MS10W1023A

Analysis Date: 10/23/2012 15:53

Sample ID: 12102202-06AMSD

Units : µg/L

Run ID: MSD_10_121023A

Prep Date: 10/23/2012 15:53

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	40.3	2.5	50	0	81	21	138	45.14	11.2(33)	
Chloromethane	51.9	10	50	0	104	23	144	56.87	9.2(27)	
Vinyl chloride	39.7	2.5	50	0	79	49	136	41.48	4.4(21)	
Chloroethane	39.4	2.5	50	0	79	21	159	42.33	7.2(40)	
Bromomethane	45.4	10	50	0	91	10	174	43.87	3.3(40)	
Trichlorofluoromethane	37.6	2.5	50	0	75	32	154	41.67	10.2(37)	
Acetone	864	50	1000	0	86	10	171	914.1	5.6(23)	
1,1-Dichloroethene	41.8	2.5	50	0	84	64	130	46.06	9.8(21)	
Tertiary Butyl Alcohol (TBA)	403	25	500	0	81	41	157	478.1	16.9(30)	
Dichloromethane	42.1	10	50	0	84	69	130	46.33	9.5(20)	
Freon-113	40.4	2.5	50	0	81	55	141	43.91	8.4(40)	
trans-1,2-Dichloroethene	43.2	2.5	50	0	86	63	130	46.58	7.5(20)	
Methyl tert-butyl ether (MTBE)	33.8	1.3	50	0	68	47	150	36.97	9.1(40)	
1,1-Dichloroethane	39.7	2.5	50	0	79	66	130	43.9	10.0(20)	
2-Butanone (MEK)	801	50	1000	0	80	23	182	866	7.8(22)	
Di-isopropyl Ether (DIPE)	42.8	2.5	50	0	86	59	139	46.83	9.0(20)	
cis-1,2-Dichloroethene	43.1	2.5	50	0	86	70	130	46.64	8.0(20)	
Bromochloromethane	40.2	2.5	50	0	80	70	132	45.28	11.8(20)	
Chloroform	39.2	2.5	50	0	78	70	130	43.33	10.1(20)	
Ethyl Tertiary Butyl Ether (ETBE)	38.3	2.5	50	0	77	59	182	41.88	9.0(40)	
2,2-Dichloropropane	39.1	2.5	50	0	78	38	154	43.06	9.7(22)	
1,2-Dichloroethane	32.1	2.5	50	0	64	65	134	36.34	12.4(20)	M2
1,1,1-Trichloroethane	38.3	2.5	50	0	77	65	136	41.86	8.9(20)	
1,1-Dichloropropene	41.1	2.5	50	0	82	68	132	45.23	9.5(20)	
Carbon tetrachloride	37	2.5	50	0	74	58	148	40.28	8.5(20)	
Benzene	39.1	1.3	50	0	78	59	138	42.94	9.5(21)	
Tertiary Amyl Methyl Ether (TAME)	35.1	2.5	50	0	70	63	135	38.8	10.0(40)	
Dibromomethane	40.1	2.5	50	0	80	70	130	43.01	7.1(20)	
1,2-Dichloropropane	35.4	2.5	50	0	71	70	131	38.86	9.4(20)	
Trichloroethene	40.1	2.5	50	0	80	65	144	43.97	9.2(20)	
Bromodichloromethane	39.9	2.5	50	0	80	50	157	44.08	10.1(20)	
4-Methyl-2-pentanone (MIBK)	102	13	125	0	82	20	182	114	11.1(20)	
cis-1,3-Dichloropropene	36.5	2.5	50	0	73	63	131	39.89	8.8(20)	
trans-1,3-Dichloropropene	38.9	2.5	50	0	78	65	136	42.12	7.9(20)	
1,1,2-Trichloroethane	42.7	2.5	50	0	85	70	131	47.45	10.5(20)	
Toluene	40.2	1.3	50	0	80	68	130	43.03	6.8(20)	
1,3-Dichloropropane	39.1	2.5	50	0	78	70	130	41.65	6.3(20)	
2-Hexanone	380	25	500	0	76	20	182	399.3	4.9(20)	
Dibromochloromethane	40.3	2.5	50	0	81	42	155	43.43	7.5(20)	
1,2-Dibromoethane (EDB)	79.8	5	100	0	80	70	130	84.95	6.3(20)	
Tetrachloroethene	40.9	2.5	50	0	82	65	130	43.8	6.9(20)	
1,1,1,2-Tetrachloroethane	39.9	2.5	50	0	80	70	130	42.43	6.3(20)	
Chlorobenzene	45.2	2.5	50	0	90	70	130	48.34	6.8(20)	
Ethylbenzene	41.8	1.3	50	0	84	68	130	45.16	7.8(20)	
m,p-Xylene	41	1.3	50	0	82	68	131	44.3	7.8(20)	
Bromoform	40.4	2.5	50	0	81	65	143	42.66	5.5(20)	
Styrene	46.4	2.5	50	0	93	59	153	50.45	8.3(37)	
o-Xylene	41.9	1.3	50	0	84	70	130	45.64	8.5(20)	
1,1,2,2-Tetrachloroethane	45.6	2.5	50	0	91	67	130	49.22	7.6(20)	
1,2,3-Trichloropropane	79.9	10	100	0	80	70	130	87.48	9.1(20)	
Isopropylbenzene	42.4	2.5	50	0	85	55	138	45.46	7.0(20)	
Bromobenzene	42.5	2.5	50	0	85	70	130	45.42	6.6(20)	
n-Propylbenzene	43.9	2.5	50	0	88	67	133	46.83	6.4(30)	
4-Chlorotoluene	41.8	2.5	50	0	84	70	130	44.87	7.0(20)	
2-Chlorotoluene	42	2.5	50	0	84	70	130	45.43	7.8(20)	
1,3,5-Trimethylbenzene	40.5	2.5	50	0	81	67	134	43.41	6.8(21)	
tert-Butylbenzene	41.8	2.5	50	0	84	55	147	45.21	7.9(20)	
1,2,4-Trimethylbenzene	40.2	2.5	50	0	80	65	135	43.26	7.4(25)	
sec-Butylbenzene	43.2	2.5	50	0	86	68	135	46.27	6.8(20)	
1,3-Dichlorobenzene	41.8	2.5	50	0	84	70	130	43.98	5.2(20)	
1,4-Dichlorobenzene	40.3	2.5	50	0	81	70	130	42.97	6.5(20)	
4-Isopropyltoluene	41.9	2.5	50	0	84	68	132	44.78	6.7(20)	
1,2-Dichlorobenzene	40.6	2.5	50	0	81	70	130	43.57	7.0(20)	
n-Butylbenzene	43.1	2.5	50	0	86	62	134	46.51	7.5(21)	
1,2-Dibromo-3-chloropropane (DBCP)	199	15	250	0	80	64	130	209	4.7(20)	



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Date:
26-Oct-12

QC Summary Report

Work Order:
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1,2,4-Trichlorobenzene	35.7	10	50	0	71	62	133	36.91	3.2(29)
Naphthalene	35.8	10	50	0	72	32	166	37.3	4.2(40)
1,2,3-Trichlorobenzene	34.6	10	50	0	69	55	138	35.4	2.2(36)
Xylenes, Total	82.9	1.3	100	0	83	70	130	89.94	8.2(20)
Surr: 1,2-Dichloroethane-d4	57.7		50		115	70	130		
Surr: Toluene-d8	49.2		50		98	70	130		
Surr: 4-Bromofluorobenzene	52.7		50		105	70	130		

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M2 = Matrix spike recovery was low, the method control sample recovery was acceptable.

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

CA

WorkOrder : CHHL12101803
Report Due By : 5:00 PM On : 29-Oct-12

Client:
 CH2M Hill
 1000 Wilshire Boulevard
 21st Floor
 Los Angeles, CA 90017

Report Attention	Phone Number	E-Mail Address
Daniel Jablonski	(213) 228-8271 x	daniel.jablonski@ch2m.com
Matthew Mayry	(213) 228-8271 x	matthew.mayry@ch2m.com

EDD Required : Yes

Sampled by : Matt Eiferle, Erick Randall

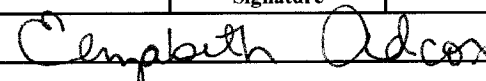
PO :
 Client's COC # : none Job : KMEP DFSP Norwalk

Cooler Temp	Samples Received	Date Printed
0 °C	18-Oct-12	18-Oct-12

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha Sub TAT	Requested Tests						Sample Remarks		
				TPHE_W	TPHE_P_W	VOC_W						
CHH12101803-01A	EXP-5	AQ 10/16/12 07:56	5 0 7	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate						
CHH12101803-02A	WCW-3	AQ 10/16/12 08:35	5 0 7	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate						
CHH12101803-03A	WCW-13	AQ 10/16/12 09:14	5 0 7	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate						
CHH12101803-04A	GMW-O-24	AQ 10/16/12 10:10	5 0 7	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate						
CHH12101803-05A	GMW-O-17	AQ 10/16/12 11:16	5 0 7	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate						
CHH12101803-06A	GMW-O-1	AQ 10/16/12 07:55	5 0 7	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate						
CHH12101803-07A	GMW-O-2	AQ 10/16/12 08:35	5 0 7	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate						
CHH12101803-08A	GMW-O-3	AQ 10/16/12 09:10	5 0 7	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate						

Comments: Security seals intact. Frozen ice. Analysts: 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
	Elizabeth Adcox	Alpha Analytical, Inc.	10-18-12 11:30

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

CA
WorkOrder : CHHL12101803
Report Due By : 5:00 PM On : 29-Oct-12

Client:
 CH2M Hill
 1000 Wilshire Boulevard
 21st Floor
 Los Angeles, CA 90017

Report Attention	Phone Number	E-Mail Address
Daniel Jablonski	(213) 228-8271 x	daniel.jablonski@ch2m.com
Matthew Mayry	(213) 228-8271 x	matthew.mayry@ch2m.com

EDD Required : Yes

Sampled by : Matt Eiferle, Erick Randall

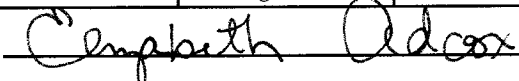
PO :
 Client's COC # : none Job : KMEP DFSP Norwalk

Cooler Temp	Samples Received	Date Printed
0 °C	18-Oct-12	18-Oct-12

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha Sub TAT	Requested Tests						Sample Remarks	
				TPHE_W	TPHE_W	VOC_W					
CHH12101803-09A	GMW-O-4	AQ 10/16/12 09:50	5 0 7	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate					
CHH12101803-10A	GMW-O-4 (MID)	AQ 10/16/12 10:35	5 0 7	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate					
CHH12101803-11A	GMW-O-5	AQ 10/16/12 11:20	5 0 7	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate					
CHH12101803-12A	GMW-O-8	AQ 10/16/12 12:30	5 0 7	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate					
CHH12101803-13A	GMW-O-9	AQ 10/16/12 12:07	5 0 7	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate					
CHH12101803-14A	GMW-O-19	AQ 10/16/12 13:15	5 0 7	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate					
CHH12101803-15A	GMW-13	AQ 10/16/12 14:05	5 0 7	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate					
CHH12101803-16A	GMW-37	AQ 10/16/12 13:25	5 0 7	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate	TPHE(0.05)+Vinyl acetate					

Comments: Security seals intact. Frozen ice. Analysts: 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
	Elizabeth Adcox	Alpha Analytical, Inc.	10-18-12 11:30

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

CA

WorkOrder : CHHL12101803

Report Due By : 5:00 PM On : 29-Oct-12

Client:
 CH2M Hill
 1000 Wilshire Boulevard
 21st Floor
 Los Angeles, CA 90017

Report Attention	Phone Number	EMail Address
Daniel Jablonski	(213) 228-8271 x	daniel.jablonski@ch2m.com
Matthew Mayry	(213) 228-8271 x	matthew.mayry@ch2m.com

EDD Required : Yes

Sampled by : Matt Eiferle, Erick Randall

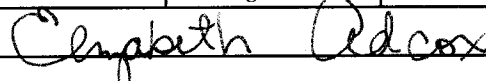
PO :
 Client's COC # : none Job : KMEP DFSP Norwalk

Cooler Temp	Samples Received	Date Printed
0 °C	18-Oct-12	18-Oct-12

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha Sub TAT	Requested Tests						Sample Remarks	
				TPHE_W	TPHP_W	VOC_W					
CHH12101803-17A	GMW-SF-7	AQ 10/16/12 14:46	5 0 7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate					
CHH12101803-18A	GMW-SF-8	AQ 10/16/12 14:04	5 0 7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate					
CHH12101803-19A	HL-2	AQ 10/16/12 14:40	5 0 7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate					
CHH12101803-20A	DUP-1	AQ 10/16/12 00:00	5 0 7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate					
CHH12101803-21A	EB-1	AQ 10/16/12 14:10	5 0 7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate					
CHH12101803-22A	EB-2	AQ 10/16/12 10:15	5 0 7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate					
CHH12101803-23A	TB-1	AQ 10/16/12 08:00	3 0 7			TPHE(0.05) +Vinyl acetate					Reno Trip Blank 10/5/12
CHH12101803-24A	TB-2	AQ 10/16/12 08:00	5 0 7			TPHE(0.05) +Vinyl acetate					Reno Trip Blank 10/5/12

Comments: Security seals intact. Frozen ice. Analysts: 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:		Elizabeth Adcox	Alpha Analytical, Inc.	10-18-12 11:30

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.
 The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.
 Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) 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												
EXP-5	10-16-12	0756	AQ	5	HCL	vocs	X	X										CHH12101803-0
WCL-3		0835		5			X	X										-0
WCL-13		0914		5			X	X										-0
GMW-0-24		1010		5			X	X										-0
GMW-0-17		1116		5			X	X										-0
GMW-0-1		0755		5			X	X										-0
GMW-0-2		0835		5			X	X										-0
GMW-0-3		0910		5			X	X										-0
GMW-0-4		0950		5			X	X										-0
GMW-0-4 (MTO)		1035		5			X	X										-10

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED
	10-16-12	1500	Matt Eiferle Erick Randall	NO LATER THAN Standard
RELEASED BY	TIME	RECEIVED BY	DATE	TIME
	1530	Nicole (SC)	10/16/12	1530
RELEASED BY	TIME	RECEIVED BY	DATE	TIME
Nicole (SC)	1330		10/17/12	1330
RELEASED BY	TIME	RECEIVED BY	DATE	TIME
	1330	Campbell Adcox	10/18/12	11:30
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 AG= Water	CONTAINERS			TPHg, TPHd (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)							ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
				#	Preservation	Type												
GMW-0.5	10-16-12	1120	AQ	5	HCL	VOC's	X	X										-11
GMW-0.8		1230		5			X	X										-12
GMW-0.9		1207		5			X	X										-13
GMW-0.19		1315		5			X	X										-14
GMW-13		1405		5			X	X										-15
GMW-37		1325		5			X	X										-16
GMW-SF-7		1446		5			X	X										-17
GMW-SF-8		1404		5			X	X										-18
HL-2		1440		5			X	X										-19
Dup.1				5			X	X										-20

SAMPLING COMPLETED: DATE 10-16-12 TIME 1500
 SAMPLING PERFORMED BY: Matt Eferle, Erick Randall
 RESULTS NEEDED NO LATER THAN: Standard

RELEASED BY: [Signature] TIME 1530 RECEIVED BY: Nicole (sc) DATE 10/16/12 TIME 1530

RELEASED BY: Nicole (sc) TIME 1330 RECEIVED BY: [Signature] DATE 10/17/12 TIME 1330

RELEASED BY: [Signature] TIME 1330 RECEIVED BY: Campbell Adcox DATE 10-18-12 TIME 11:30

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 #
			AG= Water	#	Preservation	Type												
EB-1	10-16-12	1400	AR	5	HCL	VOCS	X	X										-2
EB-2	↓	1015	↓	5	↓	↓	X	X										-2
TB-1	↓	0800	↓	3	↓	↓		X										-2
TB-2	↓	0800	↓	3	↓	↓		X										-2

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED
	10-16-12	1530	MATT Eiferle, Erick Randall	NO LATER THAN Standard
RELEASED BY	TIME	RECEIVED BY	DATE	TIME
	1530	Nicole (SC)	10/16/12	1530
RELEASED BY	TIME	RECEIVED BY	DATE	TIME
Nicole (SC)	1730		10/17/12	1330
RELEASED BY	TIME	RECEIVED BY	DATE	TIME
	1330	Cynthia Adcox	10-18-12	11:30
SHIPPED VIA	TIME SENT	COOLER #		



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135
Date Received : 10/17/12

Job: KMEP DFSP Norwalk

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID :	EXP-1				
Lab ID :	CHH12101704-01A	TPH-E (DRO)	ND	0.050 mg/L	10/18/12
Date Sampled	10/15/12 08:55	Surr: Nonane	110	(49-145) %REC	10/18/12
		TPH-P (GRO)	ND	0.050 mg/L	10/18/12
		Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC	10/18/12
		Surr: Toluene-d8	99	(70-130) %REC	10/18/12
		Surr: 4-Bromofluorobenzene	95	(70-130) %REC	10/18/12
Client ID :	EXP-2				
Lab ID :	CHH12101704-02A	TPH-E (DRO)	ND	0.050 mg/L	10/18/12
Date Sampled	10/15/12 09:51	Surr: Nonane	112	(49-145) %REC	10/18/12
		TPH-P (GRO)	ND	0.050 mg/L	10/18/12
		Surr: 1,2-Dichloroethane-d4	103	(70-130) %REC	10/18/12
		Surr: Toluene-d8	97	(70-130) %REC	10/18/12
		Surr: 4-Bromofluorobenzene	95	(70-130) %REC	10/18/12
Client ID :	EXP-3				
Lab ID :	CHH12101704-03A	TPH-E (DRO)	ND	0.050 mg/L	10/18/12
Date Sampled	10/15/12 10:45	Surr: Nonane	113	(49-145) %REC	10/18/12
		TPH-P (GRO)	ND	0.050 mg/L	10/18/12
		Surr: 1,2-Dichloroethane-d4	106	(70-130) %REC	10/18/12
		Surr: Toluene-d8	98	(70-130) %REC	10/18/12
		Surr: 4-Bromofluorobenzene	97	(70-130) %REC	10/18/12

Diesel Range Organics (DRO) C13-C22

Gasoline Range Organics (GRO) C4-C13

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered in any way.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

10/25/12

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101704-01A
Client I.D. Number: EXP-1

Sampled: 10/15/12 08:55
Received: 10/17/12
Extracted: 10/18/12
Analyzed: 10/18/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	95	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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[Signature]

10/25/12

Report Date

Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101704-02A
Client I.D. Number: EXP-2

Sampled: 10/15/12 09:51
Received: 10/17/12
Extracted: 10/18/12
Analyzed: 10/18/12

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	103	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	97	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	95	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

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[Signature]

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Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101704-03A
Client I.D. Number: EXP-3

Sampled: 10/15/12 10:45
Received: 10/17/12
Extracted: 10/18/12
Analyzed: 10/18/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	106	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	98	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	97	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12101704-04A
Client I.D. Number: TB-2

Sampled: 10/15/12 11:00
Received: 10/17/12
Extracted: 10/18/12
Analyzed: 10/18/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	106	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	98	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

VOC Sample Preservation Report

Work Order: CHH12101704

Job: KMEP DFSP Norwalk

Alpha's Sample ID	Client's Sample ID	Matrix	pH
12101704-01A	EXP-1	Aqueous	2
12101704-02A	EXP-2	Aqueous	2
12101704-03A	EXP-3	Aqueous	2
12101704-04A	TB-2	Aqueous	2

10/25/12

Report Date

Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
25-Oct-12

QC Summary Report

Work Order:
12101704

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8015B/C Ext**

File ID: **7A10181205.D**

Batch ID: **29698**

Analysis Date: **10/18/2012 11:46**

Sample ID: **MBLK-29698**

Units : **mg/L**

Run ID: **FID_7_121018A**

Prep Date: **10/18/2012 09:56**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	ND	0.05								
Surr: Nonane	0.177		0.15		118	49	145			

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8015B/C Ext**

File ID: **7A10181206.D**

Batch ID: **29698**

Analysis Date: **10/18/2012 12:13**

Sample ID: **LCS-29698**

Units : **mg/L**

Run ID: **FID_7_121018A**

Prep Date: **10/18/2012 09:56**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.44	0.05	2.5		98	70	130			
Surr: Nonane	0.178		0.15		119	49	145			

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8015B/C Ext**

File ID: **7A10181208.D**

Batch ID: **29698**

Analysis Date: **10/18/2012 13:07**

Sample ID: **12101841-01AMS**

Units : **mg/L**

Run ID: **FID_7_121018A**

Prep Date: **10/18/2012 09:56**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.56	0.05	2.5	0	102	53	150			
Surr: Nonane	0.161		0.15		107	49	145			

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8015B/C Ext**

File ID: **7A10181209.D**

Batch ID: **29698**

Analysis Date: **10/18/2012 13:34**

Sample ID: **12101841-01AMSD**

Units : **mg/L**

Run ID: **FID_7_121018A**

Prep Date: **10/18/2012 09:56**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.44	0.05	2.5	0	97	53	150	2.556	4.8(47)	
Surr: Nonane	0.317		0.3		106	49	145			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
25-Oct-12

QC Summary Report

Work Order:
12101704

Method Blank

Type: MBLK Test Code: EPA Method SW8015B/C

File ID: C:\HPCHEM\MS10\DATA\121018\12101805.D

Batch ID: MS10W1018B

Analysis Date: 10/18/2012 12:03

Sample ID: MBLK MS10W1018B

Units: mg/L

Run ID: MSD_10_121018A

Prep Date: 10/18/2012 12:03

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	0.05								
Surr: 1,2-Dichloroethane-d4	0.00988		0.01		99	70	130			
Surr: Toluene-d8	0.00989		0.01		99	70	130			
Surr: 4-Bromofluorobenzene	0.00972		0.01		97	70	130			

Laboratory Control Spike

Type: LCS Test Code: EPA Method SW8015B/C

File ID: C:\HPCHEM\MS10\DATA\121018\12101803.D

Batch ID: MS10W1018B

Analysis Date: 10/18/2012 11:13

Sample ID: GLCS MS10W1018B

Units: mg/L

Run ID: MSD_10_121018A

Prep Date: 10/18/2012 11:13

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.377	0.05	0.4		94	70	130			
Surr: 1,2-Dichloroethane-d4	0.0104		0.01		104	70	130			
Surr: Toluene-d8	0.00988		0.01		99	70	130			
Surr: 4-Bromofluorobenzene	0.0107		0.01		107	70	130			

Sample Matrix Spike

Type: MS Test Code: EPA Method SW8015B/C

File ID: C:\HPCHEM\MS10\DATA\121018\12101812.D

Batch ID: MS10W1018B

Analysis Date: 10/18/2012 14:33

Sample ID: 12101720-01AGS

Units: mg/L

Run ID: MSD_10_121018A

Prep Date: 10/18/2012 14:33

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.02	0.25	2	0	101	51	144			
Surr: 1,2-Dichloroethane-d4	0.0516		0.05		103	70	130			
Surr: Toluene-d8	0.0504		0.05		101	70	130			
Surr: 4-Bromofluorobenzene	0.0531		0.05		106	70	130			

Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8015B/C

File ID: C:\HPCHEM\MS10\DATA\121018\12101813.D

Batch ID: MS10W1018B

Analysis Date: 10/18/2012 14:55

Sample ID: 12101720-01AGSD

Units: mg/L

Run ID: MSD_10_121018A

Prep Date: 10/18/2012 14:55

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.14	0.25	2	0	107	51	144	2.015	5.9(29)	
Surr: 1,2-Dichloroethane-d4	0.0505		0.05		101	70	130			
Surr: Toluene-d8	0.0485		0.05		97	70	130			
Surr: 4-Bromofluorobenzene	0.0509		0.05		102	70	130			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:

25-Oct-12

QC Summary Report

Work Order:

12101704

n-Butylbenzene	ND	1				
1,2-Dibromo-3-chloropropane (DBCP)	ND	5				
1,2,4-Trichlorobenzene	ND	2				
Naphthalene	ND	10				
1,2,3-Trichlorobenzene	ND	2				
Xylenes, Total	ND	0.5				
Surr: 1,2-Dichloroethane-d4	9.88		10	99	70	130
Surr: Toluene-d8	9.89		10	99	70	130
Surr: 4-Bromofluorobenzene	9.72		10	97	70	130



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Date:
25-Oct-12

QC Summary Report

Work Order:
12101704

Laboratory Control Spike

Type: LCS

Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\121018\12101802.D

Batch ID: MS10W1018A

Analysis Date: 10/18/2012 10:52

Sample ID: LCS MS10W1018A

Units: µg/L

Run ID: MSD_10_121018A

Prep Date: 10/18/2012 10:52

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	9.29	1	10		93	37	137			
Chloromethane	11.1	2	10		111	43	140			
Vinyl chloride	9.14	1	10		91	80	120			
Chloroethane	8.76	1	10		88	43	141			
Bromomethane	10	2	10		100	11	160			
Trichlorofluoromethane	8.49	1	10		85	40	148			
Acetone	211	10	200		106	36	171			
1,1-Dichloroethene	9.57	1	10		96	80	120			
Tertiary Butyl Alcohol (TBA)	106	10	100		106	44	156			
Dichloromethane	9.54	2	10		95	69	130			
Freon-113	9.22	1	10		92	70	137			
trans-1,2-Dichloroethene	9.93	1	10		99	70	130			
Methyl tert-butyl ether (MTBE)	8.56	0.5	10		86	65	140			
1,1-Dichloroethane	9.34	1	10		93	70	130			
2-Butanone (MEK)	197	10	200		98	23	182			
Di-isopropyl Ether (DIPE)	10.4	1	10		104	70	130			
cis-1,2-Dichloroethene	9.95	1	10		100	70	130			
Bromochloromethane	9.76	1	10		98	70	132			
Chloroform	9.09	1	10		91	80	120			
Ethyl Tertiary Butyl Ether (ETBE)	9.42	1	10		94	65	139			
2,2-Dichloropropane	9.49	1	10		95	68	154			
1,2-Dichloroethane	7.75	1	10		78	70	132			
1,1,1-Trichloroethane	8.56	1	10		86	70	135			
1,1-Dichloropropene	9.53	1	10		95	70	130			
Carbon tetrachloride	8.3	1	10		83	61	148			
Benzene	9.13	0.5	10		91	70	130			
Tertiary Amyl Methyl Ether (TAME)	8.54	1	10		85	68	134			
Dibromomethane	9.25	1	10		93	70	130			
1,2-Dichloropropane	8.36	1	10		84	80	120			
Trichloroethene	9.23	1	10		92	65	144			
Bromodichloromethane	9.09	1	10		91	50	157			
4-Methyl-2-pentanone (MIBK)	25.1	2.5	25		100	20	182			
cis-1,3-Dichloropropene	9.52	1	10		95	70	131			
trans-1,3-Dichloropropene	9.54	1	10		95	70	136			
1,1,2-Trichloroethane	10	1	10		100	70	130			
Toluene	9.41	0.5	10		94	80	120			
1,3-Dichloropropane	9.45	1	10		95	70	130			
2-Hexanone	122	5	100		122	20	182			
Dibromochloromethane	9.6	1	10		96	42	155			
1,2-Dibromoethane (EDB)	19.1	2	20		95	70	130			
Tetrachloroethene	9.5	1	10		95	70	130			
1,1,1,2-Tetrachloroethane	9.25	1	10		93	70	130			
Chlorobenzene	10.3	1	10		103	70	130			
Ethylbenzene	9.64	0.5	10		96	80	120			
m,p-Xylene	9.26	0.5	10		93	70	130			
Bromoform	9.03	1	10		90	68	143			
Styrene	10.5	1	10		105	64	153			
o-Xylene	9.53	0.5	10		95	70	130			
1,1,2,2-Tetrachloroethane	10.4	1	10		104	70	130			
1,2,3-Trichloropropane	18.5	2	20		92	70	130			
Isopropylbenzene	9.69	1	10		97	68	138			
Bromobenzene	9.77	1	10		98	70	130			
n-Propylbenzene	10	1	10		100	70	133			
4-Chlorotoluene	9.61	1	10		96	70	130			
2-Chlorotoluene	9.68	1	10		97	70	130			
1,3,5-Trimethylbenzene	9.21	1	10		92	70	134			
tert-Butylbenzene	9.48	1	10		95	55	147			
1,2,4-Trimethylbenzene	9.18	1	10		92	70	134			
sec-Butylbenzene	9.74	1	10		97	70	135			
1,3-Dichlorobenzene	9.48	1	10		95	70	130			
1,4-Dichlorobenzene	9.21	1	10		92	70	130			
4-Isopropyltoluene	9.5	1	10		95	70	132			
1,2-Dichlorobenzene	9.35	1	10		94	70	130			
n-Butylbenzene	9.96	1	10		99.6	70	134			
1,2-Dibromo-3-chloropropane (DBCP)	45.4	3	50		91	67	130			



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QC Summary Report

Work Order:
12101704

1,2,4-Trichlorobenzene	8.08	2	10	81	67	132
Naphthalene	8.32	2	10	83	38	154
1,2,3-Trichlorobenzene	7.76	2	10	78	56	137
Xylenes, Total	18.8	0.5	20	94	70	130
Surr: 1,2-Dichloroethane-d4	12.2		10	122	70	130
Surr: Toluene-d8	9.9		10	99	70	130
Surr: 4-Bromofluorobenzene	10.5		10	105	70	130



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Date:
25-Oct-12

QC Summary Report

Work Order:
12101704

Sample Matrix Spike

Type: MS

Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\121018\12101810.D

Batch ID: MS10W1018A

Analysis Date: 10/18/2012 13:50

Sample ID: 12101720-01AMS

Units: µg/L

Run ID: MSD_10_121018A

Prep Date: 10/18/2012 13:50

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	48.6	2.5	50	0	97	21	138			
Chloromethane	62.2	10	50	0	124	23	144			
Vinyl chloride	52.2	2.5	50	0	104	49	136			
Chloroethane	50.9	2.5	50	0	102	21	159			
Bromomethane	50.4	10	50	0	101	10	174			
Trichlorofluoromethane	44.6	2.5	50	0	89	32	154			
Acetone	1080	50	1000	0	108	10	171			
1,1-Dichloroethene	51.6	2.5	50	0	103	64	130			
Tertiary Butyl Alcohol (TBA)	507	25	500	0	101	41	157			
Dichloromethane	53	10	50	0	106	69	130			
Freon-113	44.2	2.5	50	0	88	55	141			
trans-1,2-Dichloroethene	52.7	2.5	50	0	105	63	130			
Methyl tert-butyl ether (MTBE)	43.6	1.3	50	0	87	47	150			
1,1-Dichloroethane	49.7	2.5	50	0	99	66	130			
2-Butanone (MEK)	1000	50	1000	0	100	23	182			
Di-isopropyl Ether (DIPE)	54.9	2.5	50	0	110	59	139			
cis-1,2-Dichloroethene	52.8	2.5	50	0	106	70	130			
Bromochloromethane	50.9	2.5	50	0	102	70	132			
Chloroform	48.9	2.5	50	0	98	70	130			
Ethyl Tertiary Butyl Ether (ETBE)	49.1	2.5	50	0	98	59	182			
2,2-Dichloropropane	48.1	2.5	50	0	96	38	154			
1,2-Dichloroethane	41	2.5	50	0	82	65	134			
1,1,1-Trichloroethane	46.3	2.5	50	0	93	65	136			
1,1-Dichloropropene	49.8	2.5	50	0	99.7	68	132			
Carbon tetrachloride	43.7	2.5	50	0	87	58	148			
Benzene	48.9	1.3	50	0	98	59	138			
Tertiary Amyl Methyl Ether (TAME)	44.6	2.5	50	0	89	63	135			
Dibromomethane	48.9	2.5	50	0	98	70	130			
1,2-Dichloropropane	44.1	2.5	50	0	88	70	131			
Trichloroethene	48.3	2.5	50	0	97	65	144			
Bromodichloromethane	48.5	2.5	50	0	97	50	157			
4-Methyl-2-pentanone (MIBK)	120	13	125	0	96	20	182			
cis-1,3-Dichloropropene	45.5	2.5	50	0	91	63	131			
trans-1,3-Dichloropropene	48	2.5	50	0	96	65	136			
1,1,2-Trichloroethane	54.9	2.5	50	0	110	70	131			
Toluene	48.8	1.3	50	0	98	68	130			
1,3-Dichloropropane	49	2.5	50	0	98	70	130			
2-Hexanone	475	25	500	0	95	20	182			
Dibromochloromethane	49.6	2.5	50	0	99	42	155			
1,2-Dibromoethane (EDB)	99.2	5	100	0	99	70	130			
Tetrachloroethene	48.6	2.5	50	0	97	65	130			
1,1,1,2-Tetrachloroethane	48.3	2.5	50	0	97	70	130			
Chlorobenzene	54.7	2.5	50	0	109	70	130			
Ethylbenzene	50.4	1.3	50	0	101	68	130			
m,p-Xylene	48.8	1.3	50	0	98	68	131			
Bromoform	48.1	2.5	50	0	96	65	143			
Styrene	55.7	2.5	50	0	111	59	153			
o-Xylene	50.8	1.3	50	0	102	70	130			
1,1,2,2-Tetrachloroethane	56.4	2.5	50	0	113	67	130			
1,2,3-Trichloropropane	99.3	10	100	0	99	70	130			
Isopropylbenzene	50.6	2.5	50	0	101	55	138			
Bromobenzene	51.2	2.5	50	0	102	70	130			
n-Propylbenzene	51.9	2.5	50	0	104	67	133			
4-Chlorotoluene	49.6	2.5	50	0	99	70	130			
2-Chlorotoluene	50.6	2.5	50	0	101	70	130			
1,3,5-Trimethylbenzene	48.1	2.5	50	0	96	67	134			
tert-Butylbenzene	49.7	2.5	50	0	99	55	147			
1,2,4-Trimethylbenzene	47.9	2.5	50	0	96	65	135			
sec-Butylbenzene	51	2.5	50	0	102	68	135			
1,3-Dichlorobenzene	49.3	2.5	50	0	99	70	130			
1,4-Dichlorobenzene	48.1	2.5	50	0	96	70	130			
4-Isopropyltoluene	48.9	2.5	50	0	98	68	132			
1,2-Dichlorobenzene	49.1	2.5	50	0	98	70	130			
n-Butylbenzene	50	2.5	50	0	100	62	134			
1,2-Dibromo-3-chloropropane (DBCP)	233	15	250	0	93	64	130			



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QC Summary Report

Work Order:
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1,2,4-Trichlorobenzene	40.5	10	50	0	81	62	133
Naphthalene	42.7	10	50	0	85	32	166
1,2,3-Trichlorobenzene	39.6	10	50	0	79	55	138
Xylenes, Total	99.6	1.3	100	0	99.6	70	130
Surr: 1,2-Dichloroethane-d4	61.7		50		123	70	130
Surr: Toluene-d8	48.5		50		97	70	130
Surr: 4-Bromofluorobenzene	52.2		50		104	70	130



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Date:

25-Oct-12

QC Summary Report

Work Order:

12101704

Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\121018\12101811.D

Batch ID: MS10W1018A

Analysis Date: 10/18/2012 14:12

Sample ID: 12101720-01AMSD

Units: µg/L

Run ID: MSD_10_121018A

Prep Date: 10/18/2012 14:12

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	55.1	2.5	50	0	110	21	138	48.61	12.4(33)	
Chloromethane	69.4	10	50	0	139	23	144	62.21	10.9(27)	
Vinyl chloride	57.4	2.5	50	0	115	49	136	52.18	9.5(21)	
Chloroethane	54.1	2.5	50	0	108	21	159	50.89	6.1(40)	
Bromomethane	62.2	10	50	0	124	10	174	50.35	21.0(40)	
Trichlorofluoromethane	51.5	2.5	50	0	103	32	154	44.63	14.3(37)	
Acetone	1250	50	1000	0	125	10	171	1083	14.2(23)	
1,1-Dichloroethene	57.9	2.5	50	0	116	64	130	51.62	11.5(21)	
Tertiary Butyl Alcohol (TBA)	589	25	500	0	118	41	157	506.6	15.0(30)	
Dichloromethane	59.4	10	50	0	119	69	130	53.04	11.2(20)	
Freon-113	52.2	2.5	50	0	104	55	141	44.19	16.7(40)	
trans-1,2-Dichloroethene	58.7	2.5	50	0	117	63	130	52.72	10.7(20)	
Methyl tert-butyl ether (MTBE)	50.4	1.3	50	0	101	47	150	43.55	14.5(40)	
1,1-Dichloroethane	54.8	2.5	50	0	110	66	130	49.74	9.6(20)	
2-Butanone (MEK)	1130	50	1000	0	113	23	182	1000	12.1(22)	
Di-isopropyl Ether (DIPE)	61.6	2.5	50	0	123	59	139	54.88	11.6(20)	
cis-1,2-Dichloroethene	59	2.5	50	0	118	70	130	52.83	11.1(20)	
Bromochloromethane	57.4	2.5	50	0	115	70	132	50.91	11.9(20)	
Chloroform	54.1	2.5	50	0	108	70	130	48.87	10.2(20)	
Ethyl Tertiary Butyl Ether (ETBE)	55.6	2.5	50	0	111	59	182	49.06	12.6(40)	
2,2-Dichloropropane	53.3	2.5	50	0	107	38	154	48.1	10.3(22)	
1,2-Dichloroethane	45.8	2.5	50	0	92	65	134	41	11.0(20)	
1,1,1-Trichloroethane	51.1	2.5	50	0	102	65	136	46.27	9.9(20)	
1,1-Dichloropropene	55.8	2.5	50	0	112	68	132	49.84	11.3(20)	
Carbon tetrachloride	49.5	2.5	50	0	99	58	148	43.74	12.4(20)	
Benzene	54.3	1.3	50	0	109	59	138	48.85	10.6(21)	
Tertiary Amyl Methyl Ether (TAME)	50.2	2.5	50	0	100	63	135	44.62	11.8(40)	
Dibromomethane	54.4	2.5	50	0	109	70	130	48.94	10.6(20)	
1,2-Dichloropropane	49.4	2.5	50	0	99	70	131	44.1	11.2(20)	
Trichloroethene	54.1	2.5	50	0	108	65	144	48.25	11.4(20)	
Bromodichloromethane	54.5	2.5	50	0	109	50	157	48.45	11.8(20)	
4-Methyl-2-pentanone (MIBK)	140	13	125	0	112	20	182	120.1	15.0(20)	
cis-1,3-Dichloropropene	51.7	2.5	50	0	103	63	131	45.51	12.7(20)	
trans-1,3-Dichloropropene	54.4	2.5	50	0	109	65	136	48.01	12.5(20)	
1,1,2-Trichloroethane	59.7	2.5	50	0	119	70	131	54.9	8.3(20)	
Toluene	54.8	1.3	50	0	110	68	130	48.83	11.6(20)	
1,3-Dichloropropane	55	2.5	50	0	110	70	130	48.97	11.7(20)	
2-Hexanone	542	25	500	0	108	20	182	475.1	13.1(20)	
Dibromochloromethane	55.9	2.5	50	0	112	42	155	49.55	12.0(20)	
1,2-Dibromoethane (EDB)	113	5	100	0	113	70	130	99.2	12.9(20)	
Tetrachloroethene	54.5	2.5	50	0	109	65	130	48.59	11.5(20)	
1,1,1,2-Tetrachloroethane	54.6	2.5	50	0	109	70	130	48.27	12.3(20)	
Chlorobenzene	61	2.5	50	0	122	70	130	54.71	10.9(20)	
Ethylbenzene	56	1.3	50	0	112	68	130	50.39	10.5(20)	
m,p-Xylene	53.4	1.3	50	0	107	68	131	48.79	9.0(20)	
Bromoform	54.1	2.5	50	0	108	65	143	48.06	11.9(20)	
Styrene	61.5	2.5	50	0	123	59	153	55.71	9.9(37)	
o-Xylene	55.7	1.3	50	0	111	70	130	50.84	9.2(20)	
1,1,2,2-Tetrachloroethane	62.9	2.5	50	0	126	67	130	56.4	10.9(20)	
1,2,3-Trichloropropane	111	10	100	0	111	70	130	99.31	11.1(20)	
Isopropylbenzene	57.3	2.5	50	0	115	55	138	50.59	12.4(20)	
Bromobenzene	58.4	2.5	50	0	117	70	130	51.22	13.1(20)	
n-Propylbenzene	59.1	2.5	50	0	118	67	133	51.85	13.1(30)	
4-Chlorotoluene	56.7	2.5	50	0	113	70	130	49.6	13.4(20)	
2-Chlorotoluene	56.9	2.5	50	0	114	70	130	50.56	11.7(20)	
1,3,5-Trimethylbenzene	54.2	2.5	50	0	108	67	134	48.12	12.0(21)	
tert-Butylbenzene	56.2	2.5	50	0	112	55	147	49.73	12.2(20)	
1,2,4-Trimethylbenzene	53.9	2.5	50	0	108	65	135	47.85	11.8(25)	
sec-Butylbenzene	57	2.5	50	0	114	68	135	51.03	11.1(20)	
1,3-Dichlorobenzene	55.7	2.5	50	0	111	70	130	49.29	12.3(20)	
1,4-Dichlorobenzene	54.1	2.5	50	0	108	70	130	48.07	11.8(20)	
4-Isopropyltoluene	55.3	2.5	50	0	111	68	132	48.86	12.4(20)	
1,2-Dichlorobenzene	54.9	2.5	50	0	110	70	130	49.08	11.2(20)	
n-Butylbenzene	57.1	2.5	50	0	114	62	134	50.01	13.2(21)	
1,2-Dibromo-3-chloropropane (DBCP)	268	15	250	0	107	64	130	233.4	13.7(20)	



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Date:	QC Summary Report							Work Order:	
25-Oct-12								12101704	
1,2,4-Trichlorobenzene	46.6	10	50	0	93	62	133	40.49	14.1(29)
Naphthalene	49.8	10	50	0	99.6	32	166	42.66	15.5(40)
1,2,3-Trichlorobenzene	45.8	10	50	0	92	55	138	39.63	14.5(36)
Xylenes, Total	109	1.3	100	0	109	70	130	99.63	9.1(20)
Surr: 1,2-Dichloroethane-d4	61.9		50		124	70	130		
Surr: Toluene-d8	49.1		50		98	70	130		
Surr: 4-Bromofluorobenzene	52.8		50		106	70	130		

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

CA

WorkOrder : CHHL12101704
Report Due By : 5:00 PM On : 26-Oct-12

Client:
 CH2M Hill
 1000 Wilshire Boulevard
 21st Floor
 Los Angeles, CA 90017

Report Attention	Phone Number	EEmail Address
Daniel Jablonski	(213) 228-8271 x	daniel.jablonski@ch2m.com
Matthew Mayry	(213) 228-8271 x	matthew.mayry@ch2m.com

EDD Required : Yes

Sampled by : Client

PO :
 Client's COC # : none Job : KMEP DFSP Norwalk

<u>Cooler Temp</u>	<u>Samples Received</u>	<u>Date Printed</u>
0 °C	17-Oct-12	17-Oct-12

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	Collection Date	No. of Bottles			Requested Tests						Sample Remarks			
				Alpha	Sub	TAT	TPHE_W	TPHE_W	VOC_W							
CHH12101704-01A	EXP-1	AQ	10/15/12 08:55	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate							
CHH12101704-02A	EXP-2	AQ	10/15/12 09:51	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate							
CHH12101704-03A	EXP-3	AQ	10/15/12 10:45	5	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate							
CHH12101704-04A	TB-2	AQ	10/15/12 11:00	3	0	7			TPHE(0.05) +Vinyl acetate							Reno Trip Blank 10/5/12

Comments: Security seals intact. Frozen Ice. 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>Elizabeth Adcox</i>	Elizabeth Adcox	Alpha Analytical, Inc.	10-17-12 9:45

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.
 The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.
 Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) 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 1

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-1	10/15/12	0855	AQ	5	HCL	VOAS	X	X										CHH121017040
Exp-2		0951					X	X										
Exp-3		1045					X	X										
TB-2		1100		3				X										

SAMPLING COMPLETED | DATE 10/15/12 | TIME 1110 | SAMPLING PERFORMED BY *Greg Adcox* | RESULTS NEEDED NO LATER THAN Standard

RELEASED BY *Greg Adcox* | TIME 1610 | RECEIVED BY Nicole (sc) | DATE 10/15/12 | TIME 1610

RELEASED BY Nicole (sc) | TIME 1330 | RECEIVED BY | DATE 10/16/12 | TIME 1330

RELEASED BY *[Signature]* | TIME 1330 | RECEIVED BY *Cynthia Adcox* | DATE 10-17-12 | TIME 9:45

SHIPPED VIA | TIME SENT | COOLER #

APPENDIX E

**Summary of KMEP Monthly Sampling Events
Conducted During Second Semiannual 2012
in the 24-Inch Block Valve Area**

TABLE E-1

**SUMMARY OF GROUNDWATER ELEVATIONS
MONTHLY MONITORING EVENTS**
Defense Fuel Support Point Norwalk
Norwalk, California

Well	Date	Top of Casing Elevation (feet msl)	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (feet msl)
GMW-36	29-Aug-12	74.53	NM	NM	---	NC
GMW-36	26-Sep-12	74.53	NM	NM	---	NC
GMW-36	29-Nov-12	76.66	31.68	33.93	2.25	42.73
GMW-O-15	29-Aug-12	74.23	NM	NM	---	NC
GMW-O-15	26-Sep-12	74.23	---	30.64	---	43.59
GMW-O-15	29-Nov-12	74.23	NM	NM	---	NC
GMW-O-16	29-Aug-12	74.1	---	28.10	---	46
GMW-O-16	26-Sep-12	74.1	---	28.46	---	45.64
GMW-O-16	29-Nov-12	74.1	---	28.61	---	45.49
GMW-O-18	29-Aug-12	74.36	NM	NM	---	NC
GMW-O-18	26-Sep-12	74.36	---	30.83	---	43.53
GMW-O-18	29-Nov-12	74.36	NM	NM	---	NC
GMW-O-19	29-Aug-12	74.46	---	27.58	---	46.88
GMW-O-19	26-Sep-12	74.46	---	27.90	---	46.56
GMW-O-19	29-Nov-12	74.46	---	28.16	---	46.3
PZ-5	29-Aug-12	73.97	---	27.72	---	46.25
PZ-5	26-Sep-12	73.97	---	28.03	---	45.94
PZ-5	29-Nov-12	73.97	---	28.34	---	45.63

Notes

--- = not detected or not applicable.

feet btoc = feet below top of casing.

feet msl = feet above mean sea level based on the National Geodetic Vertical Datum of 1929.

NC = not calculated.

NM = not measured since extraction pump was in operation.

TABLE E-2

SUMMARY OF GROUNDWATER ANALYTICAL DATA
MONTHLY MONITORING EVENTS
 Defense Fuel Support Point Norwalk
 Norwalk, California
 Results reported in micrograms per liter (µg/L)

Sample ID	Date	TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Total Xylenes	1,2-DCA	MTBE	TBA	DIPE	ETBE	TAME
EXP-3	29-Aug-12	---	< 50	---	---	---	---	---	---	---	---	---	---
EXP-3 DUP	29-Aug-12	---	< 50	---	---	---	---	---	---	---	---	---	---
GMW-36	26-Sep-12	14000	6600	35	11	< 2.5	230	< 5	17	100	< 5	< 5	< 5
GMW-36	29-Nov-12	8400	6600	520	550	66	490	< 10	190	< 100	< 10	< 10	< 10
GMW-O-15	29-Aug-12	190	89	73	1.2	3.3	8.1	< 0.5	22	5300	< 1	< 1	< 1
GMW-O-15	26-Sep-12	220	< 50	53	0.74	3.7	7.3	< 0.5	17	2900	< 1	< 1	< 1
GMW-O-15	29-Nov-12	380	75	140	1.3	3	6.4	< 2	33	3900	< 2	< 2	< 2
GMW-O-16	29-Aug-12	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-16	26-Sep-12	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-16	29-Nov-12	< 50	83	< 0.5	< 0.5	< 0.5	0.56	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-18	30-Aug-12	71	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	14000	< 1	< 1	< 1
GMW-O-18	26-Sep-12	55	< 100	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	8900	< 1	< 1	< 1
GMW-O-18	29-Nov-12	110	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	10000	< 1	< 1	< 1
GMW-O-19	29-Aug-12	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-19	26-Sep-12	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1	< 1	< 1
GMW-O-19	29-Nov-12	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	70	< 1	< 1	< 1
PZ-5	29-Aug-12	4500	900	2300	17	110	66	< 20	1000	140000	< 20	< 20	< 20
PZ-5	26-Sep-12	6200	390	2000	25	160	110	< 20	1500	67000	< 20	< 20	< 20
PZ-5 DUP	26-Sep-12	7100	430	2400	32	160	120	< 20	2100	75000	< 20	< 20	< 20
PZ-5	29-Nov-12	8300	420	3000	35	200	69	< 40	3200	97000	< 40	< 40	< 40
PZ-5 DUP	29-Nov-12	7700	510	2900	23	190	66	< 40	3100	110000	< 40	< 40	< 40

Notes

1. Groundwater sample collected through a sampling port.

Abbreviations

--- = not analyzed or not applicable.

< 50 = not detected at or above the laboratory reporting limit shown.

1,2-DCA = 1,2-dichloroethane.

DIPE = di-isopropyl ether.

ETBE = ethyl tertiary butyl ether.

MTBE = methyl tertiary butyl ether.

TAME = tertiary amyl methyl ether.

TBA = tertiary butyl alcohol.

TPH-d = total extractable petroleum hydrocarbons quantified using a diesel standard.

TPH-g = total purgeable petroleum hydrocarbons quantified using a gasoline standard (C4-C13).

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120829-MS2	Client: KMEP
Sampler: MS	Start Date: 8/29/12
Well I.D.: EXP-3	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 124.53	Depth to Water: Pre: 52.64 Post: 52.68
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: 1143 Flow Rate: 500 mL Pump Depth: 100'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to water
1146	23.24	6.36	892	12	1.25	-34.2	1500	52.68
1149	23.25	6.35	887	11	1.18	-29.2	3000	52.68
1152	23.27	6.38	869	9	1.05	-29.1	4500	52.68
1155	23.29	6.41	860	9	0.97	-30.9	6000	52.68
1158	23.32	6.44	857	8	0.92	-35.2	7500	52.68
1201	23.36	6.50	854	8	0.89	-39.5	9000	52.68

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 9000
Sampling Time: 1202	Sampling Date: 8/29/12
Sample I.D.: EXP-3	Laboratory: Alpha Analytical
Analyzed for: TPHg PPHp VOCs MTBE	Other: GELSON
Equipment Blank I.D.: EB-1 @ Time 1115	Duplicate I.D.: DUP-1

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120829-MS2	Client: KMEP
Sampler: MS	Start Date: 8/29/12
Well I.D.: GMW-0-15	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: Port

Start Purge Time: 1230 Flow Rate: 500 mL Pump Depth: —

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1233	23.90	6.72	2310	6	0.90	-77.3	1500	Port sample
1236	23.95	6.67	2301	8	0.84	-72.1	3000	
1239	23.95	6.57	2394	8	0.82	-69.2	4500	
1242	23.93	6.53	2420	9	0.80	-67.0	6000	
1245	23.89	6.52	2429	9	0.73	-67.3	7500	

Did well dewater? Yes No Amount actually evacuated: 7800

Sampling Time: 1246 Sampling Date: 8/29/12

Sample I.D.: GMW-0-15 Laboratory: Alpha Analytical

Analyzed for: TPHg TPHfp VOC's MTBE Other: SLSW

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120829-MS2	Client: KMEP
Sampler: MS	Start Date: 8/29/12
Well I.D.: GMW-0-16	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 48.92	Depth to Water: Pre: 28.10 Post: 28.22
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: VC Grade	Flow Cell Type: YSI 556

Purge Method: 2" ~~Grandfos~~ Pump Peristaltic Pump Bladder Pump
 Sampling Method: ~~Dedicated~~ Tubing New Tubing Other _____
 Start Purge Time: 1300 Flow Rate: 500 mL/min Pump Depth: 43'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to water
1303	23.48	6.79	1871	15	0.44	30.7	1500	28.22
1306	23.40	6.76	1866	12	0.36	32.4	3000	28.22
1309	23.37	6.64	1864	11	0.37	34.2	4500	28.22
1312	23.33	6.60	1860	10	0.34	35.7	6000	28.22
1315	23.33	6.57	1863	10	0.36	37.8	7500	28.22
1318	23.29	6.56	1861	10	0.30	37.9	9000	28.22

Did well dewater? Yes <input checked="" type="radio"/> No <input type="radio"/>	Amount actually evacuated: 9500 mL
Sampling Time: 1319	Sampling Date: 8/29/12
Sample I.D.: GMW-0-16	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOCs MTBE	Other: ELSAW
Equipment Blank I.D.: @ _____ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120829-MS1	Client: KMEP
Sampler: MS	Start Date: 8/29/12
Well I.D.: GMW-0-19	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 40.08	Depth to Water: Pre: 27.58 Post: 27.63
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: 1348 Flow Rate: 500 mL/min Pump Depth: 36

Time	Temp. (C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1351	23.34	7.12	1501	11	0.64	31.2	1500	27.63
1354	23.37	6.93	1500	10	0.49	32.1	3000	27.63
1357	23.45	6.57	1503	9	0.42	46.3	4500	27.63
1400	23.48	6.51	1502	9	0.39	50.0	6000	27.63
1403	23.49	6.49	1504	8	0.38	51.2	7500	27.63
1406	23.51	6.47	1505	8	0.37	51.6	9000	27.63

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 9000 mL
Sampling Time: 1407	Sampling Date: 8/29/12
Sample I.D.: GMW-0-19	Laboratory: Alpha Analytical
Analyzed for: TPH _g TPH _n VOC's MTBE	Other: Sebow
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120829-MS2	Client: KMEP
Sampler: MS	Start Date: 8/29/12
Well I.D.: 6mw-36	Well Diameter: 2 3 <u>4</u> 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 or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
	Unable to sample - Pump							
	not functioning							
	Knew to sample							
	PER CLIENT INSTRUCTIONS							
	No sample taken							

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.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120829-MS2	Client: KMEP
Sampler: MS	Start Date: 8/29/12
Well I.D.: P2-5	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 37.84	Depth to Water: Pre: 27.72 Post: 27.82
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: EXC 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: 1459 Flow Rate: 500 mL/min Pump Depth: 34'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1502	22.28	6.83	2166	38	0.56	-131.8	1500	27.77
1505	22.32	6.63	2167	21	0.34	-126.3	3000	27.81
1508	22.41	6.43	2171	17	0.32	-122.2	4500	27.82
1511	22.50	6.28	2183	17	0.31	-120.4	6000	27.81
1514	22.54	6.24	2188	16	0.28	-121.2	7500	27.81
1517	22.59	6.21	2192	16	0.27	-123.3	9000	27.82

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 9000
Sampling Time: 1518	Sampling Date: 8/29/12
Sample I.D.: P2-5	Laboratory: Alpha Analytical
Analyzed for: TPH ₈ TPH ₁₀ VOC's MTBE	Other: See SOW
Equipment Blank I.D.: @	Duplicate I.D.:

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 (of)

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)	TPHg (EPA 8015M)							ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
			AG= Water	#	Preservation	Type													
EXP-3	8/29/12	1202	AG	6	HCL	Vol 4	X	X	X										
PMW-0-15		1246		6	HCL		X	X											
PMW-0-16		1319		6	HCL		X	X											
PMW-0-17		1407		6	HCL		X	X											
P2-5		1528		6	HCL		X	X											
EB-1		1115		6	HCL		X	X											
DUP-1				3	HCL	Vol 6	X	X	X										
TB-1		1100		3	HCL	Vol 4	X	X											

SAMPLING COMPLETED: DATE 8/29/12 TIME 1518
 SAMPLING PERFORMED BY: TODD MURDOCK
 RESULTS NEEDED NO LATER THAN: Standard

ELEASED BY: [Signature] TIME 1630 RECEIVED BY: NICOLE (SC) DATE 8/29/12 TIME 1630

ELEASED BY: NICOLE (SC) TIME 1345 RECEIVED BY: [Signature] DATE 8/30/12 TIME 1345

ELEASED BY: [Signature] TIME 1745 RECEIVED BY: [Signature] DATE [] TIME []

SHIPPED VIA: TIME SENT: COOLER #:

Remediation Form 7.3-1, Well Inspection Checklist

Well Number: EXP-3 Inspector: MS Date: 8/29/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?	X		
2	Is the well easily visible?	X		
3	Is the well vault cover or protective casing clearly labeled?	X		
4	Is a well identification tag present and legible?		X	
5	Is there any physical damage to the well, well vault and cover, or protective casing?		X	
6	If applicable, is the cover to the well vault properly secured?	X		
7	Is there evidence of heaving or settling of the well, vault, or protective casing?	X	X	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	X		
9	Is the well secured with a functioning lock?	X		
10	Is the well fitted with a water tight well cap?	X		
11	If applicable, is the well vault dry and free of debris?			
12	What is the measured depth of the well?			52.64
13	Is the measured depth consistent with the as-built record?			
List any corrective measures to be considered:				

Remediation Form 7.3-1, Well Inspection Checklist

Well Number: GMW-36 Inspector: MS Date: 8/29

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?	<input checked="" type="checkbox"/>		
2	Is the well easily visible?	<input checked="" type="checkbox"/>		
3	Is the well vault cover or protective casing clearly labeled?	<input checked="" type="checkbox"/>		
4	Is a well identification tag present and legible?			
5	Is there any physical damage to the well, well vault and cover, or protective casing?		<input checked="" type="checkbox"/>	
6	If applicable, is the cover to the well vault properly secured?			
7	Is there evidence of heaving or settling of the well, vault, or protective casing?			
8	Is the well pad in good condition (not cracked, settled, or elevated)?		<input checked="" type="checkbox"/>	
9	Is the well secured with a functioning lock?		<input checked="" type="checkbox"/>	
10	Is the well fitted with a water tight well cap?	<input checked="" type="checkbox"/>		
11	If applicable, is the well vault dry and free of debris?	<input checked="" type="checkbox"/>		
12	What is the measured depth of the well?			<u>ext in well</u>
13	Is the measured depth consistent with the as-built record?			
List any corrective measures to be considered:				

Remediation Form 7.3-1, Well Inspection Checklist

Well Number: BMW-0-15 Inspector: MS Date: 8/29

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?	X		
2	Is the well easily visible?	X		
3	Is the well vault cover or protective casing clearly labeled?	X		
4	Is a well identification tag present and legible?		X	
5	Is there any physical damage to the well, well vault and cover, or protective casing?		X	
6	If applicable, is the cover to the well vault properly secured?	X		4/4 missing
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		X	
8	Is the well pad in good condition (not cracked, settled, or elevated)?		X	
9	Is the well secured with a functioning lock?		X	
10	Is the well fitted with a water tight well cap?		X	
11	If applicable, is the well vault dry and free of debris?	X		
12	What is the measured depth of the well?			ext in well
13	Is the measured depth consistent with the as-built record?			
List any corrective measures to be considered:				



Remediation Form 7.3-1, Well Inspection Checklist

Well Number: GMW-0-16 Inspector: MS Date: 8/29/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?	/		
2	Is the well easily visible?	/		
3	Is the well vault cover or protective casing clearly labeled?	/		
4	Is a well identification tag present and legible?			
5	Is there any physical damage to the well, well vault and cover, or protective casing?		/	
6	If applicable, is the cover to the well vault properly secured?	/		
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		/	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	/		
9	Is the well secured with a functioning lock?	/		
10	Is the well fitted with a water tight well cap?	/		
11	If applicable, is the well vault dry and free of debris?	/		
12	What is the measured depth of the well?			48.92
13	Is the measured depth consistent with the as-built record?			
List any corrective measures to be considered:				



Remediation Form 7.3-1, Well Inspection Checklist

Well Number: GW-0-18- Inspector: MS Date: 8/29/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?	X		
2	Is the well easily visible?	X		
3	Is the well vault cover or protective casing clearly labeled?	X		
4	Is a well identification tag present and legible?		X	
5	Is there any physical damage to the well, well vault and cover, or protective casing?		X	
6	If applicable, is the cover to the well vault properly secured?		X	4/4 missing
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		X	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	X		
9	Is the well secured with a functioning lock?		X	
10	Is the well fitted with a water tight well cap?	X		
11	If applicable, is the well vault dry and free of debris?	X		
12	What is the measured depth of the well?			ext in well
13	Is the measured depth consistent with the as-built record?			
List any corrective measures to be considered:				



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135
Date Received : 08/31/12

Job: KMEP DFSP Norwalk

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID :	EXP-3				
Lab ID :	CHH12083101-01A	TPH-E (DRO)	ND	0.050 mg/L	09/04/12
Date Sampled	08/29/12 12:02	Surr: Nonane	117	(49-145) %REC	09/04/12
Client ID :	GMW-O-15				
Lab ID :	CHH12083101-02A	TPH-E (DRO)	0.089	0.050 mg/L	09/04/12
Date Sampled	08/29/12 12:46	Surr: Nonane	85	(49-145) %REC	09/04/12
		TPH-P (GRO)	0.19	0.050 mg/L	09/11/12
		Surr: 1,2-Dichloroethane-d4	106	(70-130) %REC	09/11/12
		Surr: Toluene-d8	101	(70-130) %REC	09/11/12
		Surr: 4-Bromofluorobenzene	95	(70-130) %REC	09/11/12
Client ID :	GMW-O-16				
Lab ID :	CHH12083101-03A	TPH-E (DRO)	ND	0.050 mg/L	09/04/12
Date Sampled	08/29/12 13:19	Surr: Nonane	111	(49-145) %REC	09/04/12
		TPH-P (GRO)	ND	0.050 mg/L	09/08/12
		Surr: 1,2-Dichloroethane-d4	91	(70-130) %REC	09/08/12
		Surr: Toluene-d8	109	(70-130) %REC	09/08/12
		Surr: 4-Bromofluorobenzene	101	(70-130) %REC	09/08/12
Client ID :	GMW-O-19				
Lab ID :	CHH12083101-04A	TPH-E (DRO)	ND	0.050 mg/L	09/04/12
Date Sampled	08/29/12 14:07	Surr: Nonane	112	(49-145) %REC	09/04/12
		TPH-P (GRO)	ND	0.050 mg/L	09/08/12
		Surr: 1,2-Dichloroethane-d4	97	(70-130) %REC	09/08/12
		Surr: Toluene-d8	108	(70-130) %REC	09/08/12
		Surr: 4-Bromofluorobenzene	104	(70-130) %REC	09/08/12
Client ID :	PZ-5				
Lab ID :	CHH12083101-05A	TPH-E (DRO)	0.90 Z	0.050 mg/L	09/04/12
Date Sampled	08/29/12 15:18	Surr: Nonane	104	(49-145) %REC	09/04/12
		TPH-P (GRO)	4.5	2.0 mg/L	09/11/12
		Surr: 1,2-Dichloroethane-d4	105	(70-130) %REC	09/11/12
		Surr: Toluene-d8	103	(70-130) %REC	09/11/12
		Surr: 4-Bromofluorobenzene	100	(70-130) %REC	09/11/12
Client ID :	EB-1				
Lab ID :	CHH12083101-06A	TPH-E (DRO)	ND	0.050 mg/L	09/04/12
Date Sampled	08/29/12 11:15	Surr: Nonane	113	(49-145) %REC	09/04/12
		TPH-P (GRO)	ND	0.050 mg/L	09/08/12
		Surr: 1,2-Dichloroethane-d4	104	(70-130) %REC	09/08/12
		Surr: Toluene-d8	105	(70-130) %REC	09/08/12
		Surr: 4-Bromofluorobenzene	102	(70-130) %REC	09/08/12
Client ID :	DUP-1				
Lab ID :	CHH12083101-07A	TPH-E (DRO)	ND	0.050 mg/L	09/04/12
Date Sampled	08/29/12 00:00	Surr: Nonane	106	(49-145) %REC	09/04/12



Alpha Analytical, Inc.

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Diesel Range Organics (DRO) C13-C22

Gasoline Range Organics (GRO) C4-C13

Z = DRO concentration may include contributions from lighter-end and heavier-end hydrocarbons that elute in the DRO range.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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RS

9/12/12

Report Date



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ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12083101-02A
Client I.D. Number: GMW-O-15

Sampled: 08/29/12 12:46
Received: 08/31/12
Extracted: 09/11/12
Analyzed: 09/11/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	3.3	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	7.6	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	8.1	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	0.51	0.50 µg/L
8 1,1-Dichloroethane	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	5,300	40 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethane	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	22	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	1.7	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	2.8	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethane	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	73	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	106	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	101	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	95	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	1.2	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

*This analyte was analyzed separately in order to achieve lower reporting limits for the other analytes.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12083101-03A
Client I.D. Number: GMW-O-16

Sampled: 08/29/12 13:19
Received: 08/31/12
Extracted: 09/08/12
Analyzed: 09/08/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	91	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	109	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	101	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12083101-04A
Client I.D. Number: GMW-O-19

Sampled: 08/29/12 14:07
Received: 08/31/12
Extracted: 09/08/12
Analyzed: 09/08/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethane	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethane	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethane	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	97	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	108	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	104	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethane	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethane	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12083101-05A
Client I.D. Number: PZ-5

Sampled: 08/29/12 15:18
Received: 08/31/12
Extracted: 09/11/12
Analyzed: 09/11/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	20 µg/L	45 Chlorobenzene	ND	20 µg/L
2 Chloromethane	ND	80 µg/L	46 Ethylbenzene	110	10 µg/L
3 Vinyl chloride	ND	20 µg/L	47 m,p-Xylene	14	10 µg/L
4 Chloroethane	ND	20 µg/L	48 Bromoform	ND	20 µg/L
5 Bromomethane	ND	80 µg/L	49 Xylenes, Total	66	10 µg/L
6 Trichlorofluoromethane	ND	20 µg/L	50 Styrene	ND	20 µg/L
7 Acetone	ND	400 µg/L	51 o-Xylene	52	10 µg/L
8 1,1-Dichloroethene	ND	20 µg/L	52 1,1,2,2-Tetrachloroethane	ND	20 µg/L
9 Tertiary Butyl Alcohol (TBA)	140,000	1,000 µg/L	53 1,2,3-Trichloropropane	ND	80 µg/L
10 Dichloromethane	ND	80 µg/L	54 Isopropylbenzene	ND	20 µg/L
11 Freon-113	ND	20 µg/L	55 Bromobenzene	ND	20 µg/L
12 Carbon disulfide	ND	100 µg/L	56 n-Propylbenzene	ND	20 µg/L
13 trans-1,2-Dichloroethene	ND	20 µg/L	57 4-Chlorotoluene	ND	20 µg/L
14 Methyl tert-butyl ether (MTBE)	1,000	10 µg/L	58 2-Chlorotoluene	ND	20 µg/L
15 1,1-Dichloroethane	ND	20 µg/L	59 1,3,5-Trimethylbenzene	ND	20 µg/L
16 Vinyl acetate	ND	2,000 µg/L	60 tert-Butylbenzene	ND	20 µg/L
17 2-Butanone (MEK)	ND	400 µg/L	61 1,2,4-Trimethylbenzene	ND	20 µg/L
18 Di-isopropyl Ether (DIPE)	ND	20 µg/L	62 sec-Butylbenzene	ND	20 µg/L
19 cis-1,2-Dichloroethene	ND	20 µg/L	63 1,3-Dichlorobenzene	ND	20 µg/L
20 Bromochloromethane	ND	20 µg/L	64 1,4-Dichlorobenzene	ND	20 µg/L
21 Chloroform	ND	20 µg/L	65 4-Isopropyltoluene	ND	20 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/L	66 1,2-Dichlorobenzene	ND	20 µg/L
23 2,2-Dichloropropane	ND	20 µg/L	67 n-Butylbenzene	ND	20 µg/L
24 1,2-Dichloroethane	ND	20 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	120 µg/L
25 1,1,1-Trichloroethane	ND	20 µg/L	69 1,2,4-Trichlorobenzene	ND	80 µg/L
26 1,1-Dichloropropene	ND	20 µg/L	70 Naphthalene	ND	80 µg/L
27 Carbon tetrachloride	ND	20 µg/L	71 1,2,3-Trichlorobenzene	ND	80 µg/L
28 Benzene	2,300	10 µg/L	72 Surr: 1,2-Dichloroethane-d4	105	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/L	73 Surr: Toluene-d8	103	(70-130) %REC
30 Dibromomethane	ND	20 µg/L	74 Surr: 4-Bromofluorobenzene	100	(70-130) %REC
31 1,2-Dichloropropane	ND	20 µg/L			
32 Trichloroethene	ND	20 µg/L			
33 Bromodichloromethane	ND	20 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	100 µg/L			
35 cis-1,3-Dichloropropene	ND	20 µg/L			
36 trans-1,3-Dichloropropene	ND	20 µg/L			
37 1,1,2-Trichloroethane	ND	20 µg/L			
38 Toluene	17	10 µg/L			
39 1,3-Dichloropropane	ND	20 µg/L			
40 2-Hexanone	ND	200 µg/L			
41 Dibromochloromethane	ND	20 µg/L			
42 1,2-Dibromoethane (EDB)	ND	40 µg/L			
43 Tetrachloroethene	ND	20 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	20 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

*This analyte was analyzed separately on 9/9/12 in order to achieve lower reporting limits for the other analytes.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer

Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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9/12/12

Report Date

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12083101-06A
Client I.D. Number: EB-1

Sampled: 08/29/12 11:15
Received: 08/31/12
Extracted: 09/08/12
Analyzed: 09/08/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	104	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	105	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	102	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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9/12/12

Report Date

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12083101-08A
Client I.D. Number: TB-1

Sampled: 08/29/12 11:00
Received: 08/31/12
Extracted: 09/08/12
Analyzed: 09/08/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	107	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	105	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	100	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl *Randy Gardner* *Walter Hinchman*
Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
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YAG
9/12/12

Report Date

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

VOC Sample Preservation Report

Work Order: CHH12083101

Job: KMEP DFSP Norwalk

Alpha's Sample ID	Client's Sample ID	Matrix	pH
12083101-02A	GMW-O-15	Aqueous	3
12083101-03A	GMW-O-16	Aqueous	2
12083101-04A	GMW-O-19	Aqueous	2
12083101-05A	PZ-5	Aqueous	6
12083101-06A	EB-1	Aqueous	2
12083101-08A	TB-1	Aqueous	2

9/12/13
Report Date

Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
12-Sep-12

QC Summary Report

Work Order:
12083101

Method Blank

File ID: 2A08311266.D

Sample ID: MBLK-29380

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	ND	0.05								
Surr: Nonane	0.174		0.15		116	49	145			

Laboratory Control Spike

File ID: 2A08311267.D

Sample ID: LCS-29380

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.43	0.05	2.5		97	70	130			
Surr: Nonane	0.173		0.15		115	49	145			

Sample Matrix Spike

File ID: 2A08311269.D

Sample ID: 12083101-01AMS

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.62	0.05	2.5	0	105	53	150			
Surr: Nonane	0.169		0.15		113	49	145			

Sample Matrix Spike Duplicate

File ID: 2A08311270.D

Sample ID: 12083101-01AMSD

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.56	0.05	2.5	0	102	53	150	2.62	2.3(47)	
Surr: Nonane	0.124		0.15		83	49	145			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Alpha Analytical, Inc.

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Date:
12-Sep-12

QC Summary Report

Work Order:
12083101

Method Blank

File ID: 12090807.D

Sample ID: MBLK MS12W0908B

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	0.05								
Surr: 1,2-Dichloroethane-d4	0.00964		0.01		96	70	130			
Surr: Toluene-d8	0.0106		0.01		106	70	130			
Surr: 4-Bromofluorobenzene	0.00977		0.01		98	70	130			

Laboratory Control Spike

File ID: 12090806.D

Sample ID: GLCS MS12W0908B

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.388	0.05	0.4		97	70	130			
Surr: 1,2-Dichloroethane-d4	0.00939		0.01		94	70	130			
Surr: Toluene-d8	0.0104		0.01		104	70	130			
Surr: 4-Bromofluorobenzene	0.00921		0.01		92	70	130			

Sample Matrix Spike

File ID: 12090822.D

Sample ID: 12083101-03AGS

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.36	0.25	2	0	68	51	144			
Surr: 1,2-Dichloroethane-d4	0.0466		0.05		93	70	130			
Surr: Toluene-d8	0.0531		0.05		106	70	130			
Surr: 4-Bromofluorobenzene	0.0467		0.05		93	70	130			

Sample Matrix Spike Duplicate

File ID: 12090823.D

Sample ID: 12083101-03AGSD

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.15	0.25	2	0	58	51	144	1.356	16.2(29)	
Surr: 1,2-Dichloroethane-d4	0.0455		0.05		91	70	130			
Surr: Toluene-d8	0.0539		0.05		108	70	130			
Surr: 4-Bromofluorobenzene	0.0461		0.05		92	70	130			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
12-Sep-12

QC Summary Report

Work Order:
12083101

n-Butylbenzene	ND	1				
1,2-Dibromo-3-chloropropane (DBCP)	ND	5				
1,2,4-Trichlorobenzene	ND	2				
Naphthalene	ND	10				
1,2,3-Trichlorobenzene	ND	2				
Xylenes, Total	ND	0.5				
Surr: 1,2-Dichloroethane-d4	9.64		10	96	70	130
Surr: Toluene-d8	10.6		10	106	70	130
Surr: 4-Bromofluorobenzene	9.77		10	98	70	130



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:

12-Sep-12

QC Summary Report

Work Order:

12083101

Laboratory Control Spike

Type: LCS Test Code: EPA Method SW8260B

File ID: 12090804.D

Batch ID: MS12W0908A

Analysis Date: 09/08/2012 13:54

Sample ID: LCS MS12W0908A

Units: µg/L

Run ID: MSD_12_120908A

Prep Date: 09/08/2012 13:54

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	7.34	1	10		73	37	137			
Chloromethane	7.24	2	10		72	43	140			
Vinyl chloride	8.79	1	10		88	80	120			
Chloroethane	6.72	1	10		67	43	141			
Bromomethane	5.92	2	10		59	11	160			
Trichlorofluoromethane	8.92	1	10		89	40	148			
Acetone	78.2	10	200		39	36	171			
1,1-Dichloroethene	9.64	1	10		96	80	120			
Tertiary Butyl Alcohol (TBA)	140	10	100		140	44	156			
Dichloromethane	8.25	2	10		83	69	130			
Freon-113	10.2	1	10		102	70	137			
trans-1,2-Dichloroethene	12.1	1	10		121	70	130			
Methyl tert-butyl ether (MTBE)	10.6	0.5	10		106	65	140			
1,1-Dichloroethane	10.9	1	10		109	70	130			
2-Butanone (MEK)	138	10	200		69	23	182			
Di-isopropyl Ether (DIPE)	10.8	1	10		108	70	130			
cis-1,2-Dichloroethene	11.7	1	10		117	70	130			
Bromochloromethane	11.5	1	10		115	70	132			
Chloroform	10.9	1	10		109	80	120			
Ethyl Tertiary Butyl Ether (ETBE)	10.5	1	10		105	65	139			
2,2-Dichloropropane	10.2	1	10		102	68	154			
1,2-Dichloroethane	9.82	1	10		98	70	132			
1,1,1-Trichloroethane	10.7	1	10		107	70	135			
1,1-Dichloropropene	9.57	1	10		96	70	130			
Carbon tetrachloride	9.29	1	10		93	61	148			
Benzene	11.3	0.5	10		113	70	130			
Tertiary Amyl Methyl Ether (TAME)	7.99	1	10		80	68	134			
Dibromomethane	10.9	1	10		109	70	130			
1,2-Dichloropropane	10.2	1	10		102	80	120			
Trichloroethene	9.31	1	10		93	65	144			
Bromodichloromethane	10.9	1	10		109	50	157			
4-Methyl-2-pentanone (MIBK)	20.9	2.5	25		84	20	182			
cis-1,3-Dichloropropene	9.09	1	10		91	70	131			
trans-1,3-Dichloropropene	8.64	1	10		86	70	136			
1,1,2-Trichloroethane	10.4	1	10		104	70	130			
Toluene	11.8	0.5	10		118	80	120			
1,3-Dichloropropane	11.6	1	10		116	70	130			
2-Hexanone	73.1	5	100		73	20	182			
Dibromochloromethane	10.1	1	10		101	42	155			
1,2-Dibromoethane (EDB)	19.4	2	20		97	70	130			
Tetrachloroethene	10.7	1	10		107	70	130			
1,1,1,2-Tetrachloroethane	9.96	1	10		99.6	70	130			
Chlorobenzene	12	1	10		120	70	130			
Ethylbenzene	9.95	0.5	10		100	80	120			
m,p-Xylene	9.31	0.5	10		93	70	130			
Bromoform	10.2	1	10		102	68	143			
Styrene	8.99	1	10		90	64	153			
o-Xylene	9.33	0.5	10		93	70	130			
1,1,2,2-Tetrachloroethane	10.1	1	10		101	70	130			
1,2,3-Trichloropropane	20.8	2	20		104	70	130			
Isopropylbenzene	11	1	10		110	68	138			
Bromobenzene	10.8	1	10		108	70	130			
n-Propylbenzene	11.6	1	10		116	70	133			
4-Chlorotoluene	10.9	1	10		109	70	130			
2-Chlorotoluene	10.9	1	10		109	70	130			
1,3,5-Trimethylbenzene	10.8	1	10		108	70	134			
tert-Butylbenzene	10.7	1	10		107	55	147			
1,2,4-Trimethylbenzene	10.4	1	10		104	70	134			
sec-Butylbenzene	11.1	1	10		111	70	135			
1,3-Dichlorobenzene	10.6	1	10		106	70	130			
1,4-Dichlorobenzene	9.3	1	10		93	70	130			
4-Isopropyltoluene	10.9	1	10		109	70	132			
1,2-Dichlorobenzene	10	1	10		100	70	130			
n-Butylbenzene	9.28	1	10		93	70	134			
1,2-Dibromo-3-chloropropane (DBCP)	46.6	3	50		93	67	130			



Alpha Analytical, Inc.

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Date:

12-Sep-12

QC Summary Report

Work Order:

12083101

1,2,4-Trichlorobenzene	8.24	2	10	82	67	132
Naphthalene	6.94	2	10	69	38	154
1,2,3-Trichlorobenzene	8.15	2	10	82	56	137
Xylenes, Total	18.6	0.5	20	93	70	130
Surr: 1,2-Dichloroethane-d4	9.2		10	92	70	130
Surr: Toluene-d8	10.6		10	106	70	130
Surr: 4-Bromofluorobenzene	8.83		10	88	70	130



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Date:
12-Sep-12

QC Summary Report

Work Order:
12083101

Sample Matrix Spike

Type: MS Test Code: EPA Method SW8260B

File ID: 12090820.D

Batch ID: MS12W0908A

Analysis Date: 09/08/2012 20:16

Sample ID: 12083044-09AMS

Units: µg/L

Run ID: MSD_12_120908A

Prep Date: 09/08/2012 20:16

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	31	2.5	50	0	62	21	138			
Chloromethane	33.9	10	50	0	68	23	144			
Vinyl chloride	46	2.5	50	0	92	49	136			
Chloroethane	41.8	2.5	50	0	84	21	159			
Bromomethane	27	10	50	0	54	10	174			
Trichlorofluoromethane	47.5	2.5	50	0	95	32	154			
Acetone	391	50	1000	0	39	10	171			
1,1-Dichloroethene	52.8	2.5	50	0	106	64	130			
Tertiary Butyl Alcohol (TBA)	554	25	500	0	111	41	157			
Dichloromethane	49.9	10	50	0	99.9	69	130			
Freon-113	47.2	2.5	50	0	94	55	141			
trans-1,2-Dichloroethene	51.7	2.5	50	0	103	63	130			
Methyl tert-butyl ether (MTBE)	44.3	1.3	50	0	89	47	150			
1,1-Dichloroethane	49.7	2.5	50	0	99	66	130			
2-Butanone (MEK)	587	50	1000	0	59	23	182			
Di-isopropyl Ether (DIPE)	46.3	2.5	50	0	93	59	139			
cis-1,2-Dichloroethene	50.7	2.5	50	0	101	70	130			
Bromochloromethane	49.1	2.5	50	0	98	70	132			
Chloroform	53.1	2.5	50	1.08	104	70	130			
Ethyl Tertiary Butyl Ether (ETBE)	44.6	2.5	50	0	89	59	182			
2,2-Dichloropropane	40.5	2.5	50	0	81	38	154			
1,2-Dichloroethane	47.6	2.5	50	0	95	65	134			
1,1,1-Trichloroethane	52.8	2.5	50	0	106	65	136			
1,1-Dichloropropene	43.3	2.5	50	0	87	68	132			
Carbon tetrachloride	45.4	2.5	50	0	91	58	148			
Benzene	50.7	1.3	50	0	101	59	138			
Tertiary Amyl Methyl Ether (TAME)	33	2.5	50	0	66	63	135			
Dibromomethane	49.4	2.5	50	0	99	70	130			
1,2-Dichloropropane	51.3	2.5	50	0	103	70	131			
Trichloroethene	41.1	2.5	50	0	82	65	144			
Bromodichloromethane	52.4	2.5	50	0	105	50	157			
4-Methyl-2-pentanone (MIBK)	89.9	13	125	0	72	20	182			
cis-1,3-Dichloropropene	38.8	2.5	50	0	78	63	131			
trans-1,3-Dichloropropene	38.9	2.5	50	0	78	65	136			
1,1,2-Trichloroethane	45.8	2.5	50	0	92	70	131			
Toluene	50	1.3	50	0	100	68	130			
1,3-Dichloropropane	51.7	2.5	50	0	103	70	130			
2-Hexanone	252	25	500	0	50	20	182			
Dibromochloromethane	47.4	2.5	50	0	95	42	155			
1,2-Dibromoethane (EDB)	86.9	5	100	0	87	70	130			
Tetrachloroethene	43.4	2.5	50	0	87	65	130			
1,1,1,2-Tetrachloroethane	47.1	2.5	50	0	94	70	130			
Chlorobenzene	54.1	2.5	50	0	108	70	130			
Ethylbenzene	42.9	1.3	50	0	86	68	130			
m,p-Xylene	38.3	1.3	50	0	77	68	131			
Bromoform	47.1	2.5	50	0	94	65	143			
Styrene	38.5	2.5	50	0	77	59	153			
o-Xylene	39.7	1.3	50	0	79	70	130			
1,1,2,2-Tetrachloroethane	45.5	2.5	50	0	91	67	130			
1,2,3-Trichloropropane	97.7	10	100	0	98	70	130			
Isopropylbenzene	50.8	2.5	50	0	102	55	138			
Bromobenzene	50.6	2.5	50	0	101	70	130			
n-Propylbenzene	51.2	2.5	50	0	102	67	133			
4-Chlorotoluene	47.6	2.5	50	0	95	70	130			
2-Chlorotoluene	49.6	2.5	50	0	99	70	130			
1,3,5-Trimethylbenzene	49.6	2.5	50	0	99	67	134			
tert-Butylbenzene	50.6	2.5	50	0	101	55	147			
1,2,4-Trimethylbenzene	46.5	2.5	50	0	93	65	135			
sec-Butylbenzene	48.8	2.5	50	0	98	68	135			
1,3-Dichlorobenzene	47.7	2.5	50	0	95	70	130			
1,4-Dichlorobenzene	41.6	2.5	50	0	83	70	130			
4-Isopropyltoluene	46.7	2.5	50	0	93	68	132			
1,2-Dichlorobenzene	46.9	2.5	50	0	94	70	130			
n-Butylbenzene	37	2.5	50	0	74	62	134			
1,2-Dibromo-3-chloropropane (DBCP)	215	15	250	0	86	64	130			



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Date:

12-Sep-12

QC Summary Report

Work Order:

12083101

1,2,4-Trichlorobenzene	33.9	10	50	0	68	62	133
Naphthalene	29.6	10	50	0	59	32	166
1,2,3-Trichlorobenzene	34.6	10	50	0	69	55	138
Xylenes, Total	78.1	1.3	100	0	78	70	130
Surr: 1,2-Dichloroethane-d4	50.4		50		101	70	130
Surr: Toluene-d8	50.4		50		101	70	130
Surr: 4-Bromofluorobenzene	44.9		50		90	70	130



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Date:
12-Sep-12

QC Summary Report

Work Order:
12083101

Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8260B

File ID: 12090821.D

Batch ID: MS12W0908A

Analysis Date: 09/08/2012 20:39

Sample ID: 12083044-09AMSD

Units : µg/L

Run ID: MSD_12_120908A

Prep Date: 09/08/2012 20:39

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	28.3	2.5	50	0	57	21	138	31.01	9.1(33)	
Chloromethane	32	10	50	0	64	23	144	33.85	5.7(27)	
Vinyl chloride	39.4	2.5	50	0	79	49	136	45.95	15.3(21)	
Chloroethane	33	2.5	50	0	66	21	159	41.79	23.7(40)	
Bromomethane	25.3	10	50	0	51	10	174	26.95	6.2(40)	
Trichlorofluoromethane	40.4	2.5	50	0	81	32	154	47.5	16.2(37)	
Acetone	367	50	1000	0	37	10	171	391.3	6.4(23)	
1,1-Dichloroethene	44.2	2.5	50	0	88	64	130	52.76	17.6(21)	
Tertiary Butyl Alcohol (TBA)	583	25	500	0	117	41	157	554.1	5.0(30)	
Dichloromethane	43.5	10	50	0	87	69	130	49.93	13.7(20)	
Freon-113	42.9	2.5	50	0	86	55	141	47.24	9.7(40)	
trans-1,2-Dichloroethene	49.2	2.5	50	0	98	63	130	51.67	5.0(20)	
Methyl tert-butyl ether (MTBE)	42.7	1.3	50	0	85	47	150	44.31	3.6(40)	
1,1-Dichloroethane	45	2.5	50	0	90	66	130	49.66	9.8(20)	
2-Butanone (MEK)	583	50	1000	0	58	23	182	587	0.8(22)	
Di-isopropyl Ether (DIPE)	43.8	2.5	50	0	88	59	139	46.3	5.5(20)	
cis-1,2-Dichloroethene	47.4	2.5	50	0	95	70	130	50.68	6.8(20)	
Bromochloromethane	46.6	2.5	50	0	93	70	132	49.12	5.3(20)	
Chloroform	47.6	2.5	50	1.08	93	70	130	53.06	10.9(20)	
Ethyl Tertiary Butyl Ether (ETBE)	42.3	2.5	50	0	85	59	182	44.59	5.3(40)	
2,2-Dichloropropane	36	2.5	50	0	72	38	154	40.51	11.7(22)	
1,2-Dichloroethane	43.8	2.5	50	0	88	65	134	47.59	8.3(20)	
1,1,1-Trichloroethane	46.1	2.5	50	0	92	65	136	52.79	13.5(20)	
1,1-Dichloropropene	39.4	2.5	50	0	79	68	132	43.28	9.4(20)	
Carbon tetrachloride	39.8	2.5	50	0	80	58	148	45.38	13.1(20)	
Benzene	46.3	1.3	50	0	93	59	138	50.74	9.2(21)	
Tertiary Amyl Methyl Ether (TAME)	31.9	2.5	50	0	64	63	135	32.96	3.3(40)	
Dibromomethane	47.4	2.5	50	0	95	70	130	49.38	4.2(20)	
1,2-Dichloropropane	45.3	2.5	50	0	91	70	131	51.31	12.4(20)	
Trichloroethene	37.4	2.5	50	0	75	65	144	41.11	9.3(20)	
Bromodichloromethane	47	2.5	50	0	94	50	157	52.44	10.9(20)	
4-Methyl-2-pentanone (MIBK)	85.8	13	125	0	69	20	182	89.85	4.6(20)	
cis-1,3-Dichloropropene	36.3	2.5	50	0	73	63	131	38.8	6.7(20)	
trans-1,3-Dichloropropene	35.8	2.5	50	0	72	65	136	38.92	8.3(20)	
1,1,2-Trichloroethane	43.6	2.5	50	0	87	70	131	45.83	5.0(20)	
Toluene	47.6	1.3	50	0	95	68	130	50.04	5.1(20)	
1,3-Dichloropropane	49.9	2.5	50	0	99.7	70	130	51.66	3.5(20)	
2-Hexanone	249	25	500	0	50	20	182	252.2	1.3(20)	
Dibromochloromethane	44.3	2.5	50	0	89	42	155	47.4	6.7(20)	
1,2-Dibromoethane (EDB)	83.6	5	100	0	84	70	130	86.94	3.9(20)	
Tetrachloroethene	42.1	2.5	50	0	84	65	130	43.44	3.0(20)	
1,1,1,2-Tetrachloroethane	43.2	2.5	50	0	86	70	130	47.08	8.7(20)	
Chlorobenzene	50.5	2.5	50	0	101	70	130	54.05	6.9(20)	
Ethylbenzene	40.1	1.3	50	0	80	68	130	42.85	6.6(20)	
m,p-Xylene	36.7	1.3	50	0	73	68	131	38.31	4.2(20)	
Bromoform	44.5	2.5	50	0	89	65	143	47.06	5.6(20)	
Styrene	36.5	2.5	50	0	73	59	153	38.51	5.4(37)	
o-Xylene	37.2	1.3	50	0	74	70	130	39.74	6.6(20)	
1,1,2,2-Tetrachloroethane	44.3	2.5	50	0	89	67	130	45.53	2.8(20)	
1,2,3-Trichloropropane	92.4	10	100	0	92	70	130	97.68	5.6(20)	
Isopropylbenzene	48.7	2.5	50	0	97	55	138	50.76	4.1(20)	
Bromobenzene	47.6	2.5	50	0	95	70	130	50.64	6.1(20)	
n-Propylbenzene	48.4	2.5	50	0	97	67	133	51.22	5.7(30)	
4-Chlorotoluene	45.5	2.5	50	0	91	70	130	47.63	4.5(20)	
2-Chlorotoluene	47.6	2.5	50	0	95	70	130	49.61	4.1(20)	
1,3,5-Trimethylbenzene	48.1	2.5	50	0	96	67	134	49.64	3.1(21)	
tert-Butylbenzene	47.6	2.5	50	0	95	55	147	50.6	6.0(20)	
1,2,4-Trimethylbenzene	44.9	2.5	50	0	90	65	135	46.53	3.7(25)	
sec-Butylbenzene	47.1	2.5	50	0	94	68	135	48.82	3.6(20)	
1,3-Dichlorobenzene	45.7	2.5	50	0	91	70	130	47.7	4.4(20)	
1,4-Dichlorobenzene	40.3	2.5	50	0	81	70	130	41.55	3.1(20)	
4-Isopropyltoluene	47.1	2.5	50	0	94	68	132	46.66	0.9(20)	
1,2-Dichlorobenzene	45	2.5	50	0	90	70	130	46.86	4.0(20)	
n-Butylbenzene	38.6	2.5	50	0	77	62	134	36.99	4.1(21)	
1,2-Dibromo-3-chloropropane (DBCP)	207	15	250	0	83	64	130	215.2	3.9(20)	



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Date:

12-Sep-12

QC Summary Report

Work Order:

12083101

1,2,4-Trichlorobenzene	31.5	10	50	0	63	62	133	33.94	7.5(29)
Naphthalene	27.4	10	50	0	55	32	166	29.55	7.7(40)
1,2,3-Trichlorobenzene	34.9	10	50	0	70	55	138	34.61	0.8(36)
Xylenes, Total	73.9	1.3	100	0	74	70	130	78.05	5.4(20)
Surr: 1,2-Dichloroethane-d4	48.9		50		98	70	130		
Surr: Toluene-d8	52		50		104	70	130		
Surr: 4-Bromofluorobenzene	44.8		50		90	70	130		

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

CA
WorkOrder : CHHL12083101
Report Due By : 5:00 PM On : 12-Sep-12

Client:
 CH2M Hill
 1000 Wilshire Boulevard
 21st Floor
 Los Angeles, CA 90017

Report Attention	Phone Number	Email Address
Daniel Jablonski	(213) 228-8271 x	daniel.jablonski@ch2m.com
Matthew Mayry	(213) 228-8271 x	matthew.mayry@ch2m.com

EDD Required : Yes

Sampled by : Todd Murdock

PO :
 Client's COC # : none Job : KMEP DFSP Norwalk
 QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Cooler Temp Samples Received Date Printed
 0 °C 31-Aug-12 31-Aug-12

Alpha Sample ID	Client Sample ID	Collection Matrix	Collection Date	No. of Bottles			Requested Tests						Sample Remarks		
				Alpha	Sub	TAT	TPHE_W	TPH/P_W	VOC_W						
CHH12083101-01A	EXP-3	AQ	08/29/12 12:02	5	0	7	TPHE(0.05) +Vinyl acetate								1 HCl voa received broken.
CHH12083101-02A	GMW-O-15	AQ	08/29/12 12:46	6	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12083101-03A	GMW-O-16	AQ	08/29/12 13:19	6	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12083101-04A	GMW-O-19	AQ	08/29/12 14:07	6	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12083101-05A	PZ-5	AQ	08/29/12 15:18	6	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12083101-06A	EB-1	AQ	08/29/12 11:15	6	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12083101-07A	DUP-1	AQ	08/29/12 00:00	3	0	7	TPHE(0.05) +Vinyl acetate								
CHH12083101-08A	TB-1	AQ	08/29/12 11:00	3	0	7			TPHE(0.05) +Vinyl acetate						Reno Trip Blanks 7/17/12

Comments: Security seals intact. Frozen ice. Analysts: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. Logged in per amended COC sent from Cody Sharbrough via Kathy. :

Signature	Print Name	Company	Date/Time
Elizabeth Adcox	Elizabeth Adcox	Alpha Analytical, Inc.	8:31-12 1020

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.
 The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.
 Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) 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 (of)

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 AC= Water	CONTAINERS		TPHg, TPHd (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)	TPHd (EPA 8015M)					ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
				#	Preservation Type											
EXP-3	8/29/12	1202	AO	6	HCL Vol 4	X	X	X								CHH12083101-01
2mw-0-15		1246		6	HCL	X	X									-02
2mw-0-16		1319		6	HCL	X	X									-03
2mw-0-17		1407		6	HCL	X	X									-04
P2-5		1514		6	HCL	X	X									-05
EB-1		1115		6	HCL	X	X									-06
DUP-1				3	HCL Vol 4	X		X								-07
IB-1		1100		3	HCL Vol 4	X										-08

AMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED
	8/29/12	1518	TODD MURDOCK	NO LATER THAN Standard
RELEASED BY	TIME	RECEIVED BY	DATE	TIME
<i>[Signature]</i>	1630	Nicole (SC)	8/29/12	1630
RELEASED BY	TIME	RECEIVED BY	DATE	TIME
Nicole (SC)	1345	<i>[Signature]</i>	8/30/12	1345
RELEASED BY	TIME	RECEIVED BY	DATE	TIME
<i>[Signature]</i>	1745	Cameth Adcox	8-31-12	1020
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 (of)

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										
EXP-3	8/29/12	1202	AQ	6	HCL	Vol 4	X	X							1 Vol rec'd broken	CHH12083101-01
Gmw-0-15		1246		6	HCL		X	X								-02
Gmw-0-16		1319		6	HCL		X	X								-03
Gmw-0-17		1407		6	HCL		X	X								-04
P2-5		1525		6	HCL		X	X								-05
EB-1		1115		6	HCL		X	X								-06
DUP-1				3	HCL	Vol 6	X									-07
TR-1		1100		3	HCL	Vol 6	X									-08

SAMPLING COMPLETED DATE 8/29/12 TIME 1518 SAMPLING PERFORMED BY TODD MURDOCK RESULTS NEEDED NO LATER THAN Standard

RELEASED BY [Signature] TIME 1630 RECEIVED BY NICOLE (SC) DATE 8/29/12 TIME 1630

RELEASED BY NICOLE (SC) TIME 1345 RECEIVED BY [Signature] DATE 8/30/12 TIME 1345

RELEASED BY [Signature] TIME 1745 RECEIVED BY Elizabeth Adcox DATE 8/31/12 TIME 10:10

SHIPPED VIA TIME SENT COOLER #



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135
Date Received : 09/01/12

Job: KMEP SFPP - Norwalk Site

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B

Client ID :	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
GMW-O-18					
Lab ID : CHH12090402-01A	TPH-E (DRO)	ND	0.050 mg/L	09/04/12	09/04/12
Date Sampled 08/30/12 13:30	Surr: Nonane	112	(49-145) %REC	09/04/12	09/04/12
	TPH-P (GRO)	ND	0.050 mg/L	09/08/12	09/08/12
	Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC	09/08/12	09/08/12
	Surr: Toluene-d8	106	(70-130) %REC	09/08/12	09/08/12
	Surr: 4-Bromofluorobenzene	104	(70-130) %REC	09/08/12	09/08/12

Diesel Range Organics (DRO) C13-C22

Gasoline Range Organics (GRO) C4-C13

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered in any way.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

9/12/12

Report Date



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ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP SFPP - Norwalk Site

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12090402-01A
Client I.D. Number: GMW-O-18

Sampled: 08/30/12 13:30
Received: 09/01/12
Extracted: 09/08/12
Analyzed: 09/08/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	8.2 J	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	14,000 *	200 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	0.26 J	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	106	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	104	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

*This analyte was analyzed separately on 9/11/12 in order to achieve lower reporting limits for the other analytes.

ND = Not Detected

J = The analyte was positively identified, the associated numerical value is the approximate concentration of the analyte in the sample.

Roger Scholl

Randy Gardner

Walter Hinchman

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PS

9/12/12

Report Date

Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
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VOC Sample Preservation Report

Work Order: CHH12090402

Job: KMEP SFPP - Norwalk Site

Alpha's Sample ID	Client's Sample ID	Matrix	pH
12090402-01A	GMW-O-18	Aqueous	3

9/12/12

Report Date

Page 1 of 1



Alpha Analytical, Inc.

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Date:
12-Sep-12

QC Summary Report

Work Order:
12090402

Method Blank

File ID: 2A08311266.D	Type: MBLK	Test Code: EPA Method SW8015B/C Ext	Batch ID: 29380	Analysis Date: 09/04/2012 15:11						
Sample ID: MBLK-29380	Units : mg/L	Run ID: FID_2_120904A	Prep Date: 09/04/2012 12:14							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	ND	0.05								
Surr: Nonane	0.174		0.15		116	49	145			

Laboratory Control Spike

File ID: 2A08311267.D	Type: LCS	Test Code: EPA Method SW8015B/C Ext	Batch ID: 29380	Analysis Date: 09/04/2012 15:36						
Sample ID: LCS-29380	Units : mg/L	Run ID: FID_2_120904A	Prep Date: 09/04/2012 12:14							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.43	0.05	2.5		97	70	130			
Surr: Nonane	0.173		0.15		115	49	145			

Sample Matrix Spike

File ID: 2A08311269.D	Type: MS	Test Code: EPA Method SW8015B/C Ext	Batch ID: 29380	Analysis Date: 09/04/2012 16:26						
Sample ID: 12083101-01AMS	Units : mg/L	Run ID: FID_2_120904A	Prep Date: 09/04/2012 12:14							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.62	0.05	2.5	0	105	53	150			
Surr: Nonane	0.169		0.15		113	49	145			

Sample Matrix Spike Duplicate

File ID: 2A08311270.D	Type: MSD	Test Code: EPA Method SW8015B/C Ext	Batch ID: 29380	Analysis Date: 09/04/2012 16:51						
Sample ID: 12083101-01AMSD	Units : mg/L	Run ID: FID_2_120904A	Prep Date: 09/04/2012 12:14							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.56	0.05	2.5	0	102	53	150	2.62	2.3(47)	
Surr: Nonane	0.124		0.15		83	49	145			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
12-Sep-12

QC Summary Report

Work Order:
12090402

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8015B/C**

File ID: **12090807.D**

Batch ID: **MS12W0908B**

Analysis Date: **09/08/2012 15:02**

Sample ID: **MBLK MS12W0908B**

Units : **mg/L**

Run ID: **MSD_12_120908A**

Prep Date: **09/08/2012 15:02**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	0.05								
Surr: 1,2-Dichloroethane-d4	0.00964		0.01		96	70	130			
Surr: Toluene-d8	0.0106		0.01		106	70	130			
Surr: 4-Bromofluorobenzene	0.00977		0.01		98	70	130			

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8015B/C**

File ID: **12090806.D**

Batch ID: **MS12W0908B**

Analysis Date: **09/08/2012 14:39**

Sample ID: **GLCS MS12W0908B**

Units : **mg/L**

Run ID: **MSD_12_120908A**

Prep Date: **09/08/2012 14:39**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.388	0.05	0.4		97	70	130			
Surr: 1,2-Dichloroethane-d4	0.00939		0.01		94	70	130			
Surr: Toluene-d8	0.0104		0.01		104	70	130			
Surr: 4-Bromofluorobenzene	0.00921		0.01		92	70	130			

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8015B/C**

File ID: **12090822.D**

Batch ID: **MS12W0908B**

Analysis Date: **09/08/2012 21:01**

Sample ID: **12083101-03AGS**

Units : **mg/L**

Run ID: **MSD_12_120908A**

Prep Date: **09/08/2012 21:01**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.36	0.25	2	0	68	51	144			
Surr: 1,2-Dichloroethane-d4	0.0466		0.05		93	70	130			
Surr: Toluene-d8	0.0531		0.05		106	70	130			
Surr: 4-Bromofluorobenzene	0.0467		0.05		93	70	130			

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8015B/C**

File ID: **12090823.D**

Batch ID: **MS12W0908B**

Analysis Date: **09/08/2012 21:24**

Sample ID: **12083101-03AGSD**

Units : **mg/L**

Run ID: **MSD_12_120908A**

Prep Date: **09/08/2012 21:24**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.15	0.25	2	0	58	51	144	1.356	16.2(29)	
Surr: 1,2-Dichloroethane-d4	0.0455		0.05		91	70	130			
Surr: Toluene-d8	0.0539		0.05		108	70	130			
Surr: 4-Bromofluorobenzene	0.0461		0.05		92	70	130			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Alpha Analytical, Inc.

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Date:
12-Sep-12

QC Summary Report

Work Order:
12090402

n-Butylbenzene	ND	1				
1,2-Dibromo-3-chloropropane (DBCP)	ND	5				
1,2,4-Trichlorobenzene	ND	2				
Naphthalene	ND	10				
1,2,3-Trichlorobenzene	ND	2				
Xylenes, Total	ND	0.5				
Surr: 1,2-Dichloroethane-d4	9.64		10	96	70	130
Surr: Toluene-d8	10.6		10	106	70	130
Surr: 4-Bromofluorobenzene	9.77		10	98	70	130



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Date:
12-Sep-12

QC Summary Report

Work Order:
12090402

Laboratory Control Spike

Type: LCS Test Code: EPA Method SW8260B

File ID: 12090804.D

Batch ID: MS12W0908A

Analysis Date: 09/08/2012 13:54

Sample ID: LCS MS12W0908A

Units: µg/L

Run ID: MSD_12_120908A

Prep Date: 09/08/2012 13:54

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	7.34	1	10		73	37	137			
Chloromethane	7.24	2	10		72	43	140			
Vinyl chloride	8.79	1	10		88	80	120			
Chloroethane	6.72	1	10		67	43	141			
Bromomethane	5.92	2	10		59	11	160			
Trichlorofluoromethane	8.92	1	10		89	40	148			
Acetone	78.2	10	200		39	36	171			
1,1-Dichloroethene	9.64	1	10		96	80	120			
Tertiary Butyl Alcohol (TBA)	140	10	100		140	44	156			
Dichloromethane	8.25	2	10		83	69	130			
Freon-113	10.2	1	10		102	70	137			
trans-1,2-Dichloroethene	12.1	1	10		121	70	130			
Methyl tert-butyl ether (MTBE)	10.6	0.5	10		106	65	140			
1,1-Dichloroethane	10.9	1	10		109	70	130			
2-Butanone (MEK)	138	10	200		69	23	182			
Di-isopropyl Ether (DIPE)	10.8	1	10		108	70	130			
cis-1,2-Dichloroethene	11.7	1	10		117	70	130			
Bromochloromethane	11.5	1	10		115	70	132			
Chloroform	10.9	1	10		109	80	120			
Ethyl Tertiary Butyl Ether (ETBE)	10.5	1	10		105	65	139			
2,2-Dichloropropane	10.2	1	10		102	68	154			
1,2-Dichloroethane	9.82	1	10		98	70	132			
1,1,1-Trichloroethane	10.7	1	10		107	70	135			
1,1-Dichloropropene	9.57	1	10		96	70	130			
Carbon tetrachloride	9.29	1	10		93	61	148			
Benzene	11.3	0.5	10		113	70	130			
Tertiary Amyl Methyl Ether (TAME)	7.99	1	10		80	68	134			
Dibromomethane	10.9	1	10		109	70	130			
1,2-Dichloropropane	10.2	1	10		102	80	120			
Trichloroethene	9.31	1	10		93	65	144			
Bromodichloromethane	10.9	1	10		109	50	157			
4-Methyl-2-pentanone (MIBK)	20.9	2.5	25		84	20	182			
cis-1,3-Dichloropropene	9.09	1	10		91	70	131			
trans-1,3-Dichloropropene	8.64	1	10		86	70	136			
1,1,2-Trichloroethane	10.4	1	10		104	70	130			
Toluene	11.8	0.5	10		118	80	120			
1,3-Dichloropropane	11.6	1	10		116	70	130			
2-Hexanone	73.1	5	100		73	20	182			
Dibromochloromethane	10.1	1	10		101	42	155			
1,2-Dibromoethane (EDB)	19.4	2	20		97	70	130			
Tetrachloroethene	10.7	1	10		107	70	130			
1,1,1,2-Tetrachloroethane	9.96	1	10		99.6	70	130			
Chlorobenzene	12	1	10		120	70	130			
Ethylbenzene	9.95	0.5	10		100	80	120			
m,p-Xylene	9.31	0.5	10		93	70	130			
Bromoform	10.2	1	10		102	68	143			
Styrene	8.99	1	10		90	64	153			
o-Xylene	9.33	0.5	10		93	70	130			
1,1,2,2-Tetrachloroethane	10.1	1	10		101	70	130			
1,2,3-Trichloropropane	20.8	2	20		104	70	130			
Isopropylbenzene	11	1	10		110	68	138			
Bromobenzene	10.8	1	10		108	70	130			
n-Propylbenzene	11.6	1	10		116	70	133			
4-Chlorotoluene	10.9	1	10		109	70	130			
2-Chlorotoluene	10.9	1	10		109	70	130			
1,3,5-Trimethylbenzene	10.8	1	10		108	70	134			
tert-Butylbenzene	10.7	1	10		107	55	147			
1,2,4-Trimethylbenzene	10.4	1	10		104	70	134			
sec-Butylbenzene	11.1	1	10		111	70	135			
1,3-Dichlorobenzene	10.6	1	10		106	70	130			
1,4-Dichlorobenzene	9.3	1	10		93	70	130			
4-Isopropyltoluene	10.9	1	10		109	70	132			
1,2-Dichlorobenzene	10	1	10		100	70	130			
n-Butylbenzene	9.28	1	10		93	70	134			
1,2-Dibromo-3-chloropropane (DBCP)	46.6	3	50		93	67	130			



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
12-Sep-12

QC Summary Report

Work Order:
12090402

1,2,4-Trichlorobenzene	8.24	2	10	82	67	132
Naphthalene	6.94	2	10	69	38	154
1,2,3-Trichlorobenzene	8.15	2	10	82	56	137
Xylenes, Total	18.6	0.5	20	93	70	130
Surr: 1,2-Dichloroethane-d4	9.2		10	92	70	130
Surr: Toluene-d8	10.6		10	106	70	130
Surr: 4-Bromofluorobenzene	8.83		10	88	70	130



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Date:
12-Sep-12

QC Summary Report

Work Order:
12090402

Sample Matrix Spike

Type: MS Test Code: EPA Method SW8260B

File ID: 12090820.D

Batch ID: MS12W0908A

Analysis Date: 09/08/2012 20:16

Sample ID: 12083044-09AMS

Units : µg/L

Run ID: MSD_12_120908A

Prep Date: 09/08/2012 20:16

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	31	2.5	50	0	62	21	138			
Chloromethane	33.9	10	50	0	68	23	144			
Vinyl chloride	46	2.5	50	0	92	49	136			
Chloroethane	41.8	2.5	50	0	84	21	159			
Bromomethane	27	10	50	0	54	10	174			
Trichlorofluoromethane	47.5	2.5	50	0	95	32	154			
Acetone	391	50	1000	0	39	10	171			
1,1-Dichloroethene	52.8	2.5	50	0	106	64	130			
Tertiary Butyl Alcohol (TBA)	554	25	500	0	111	41	157			
Dichloromethane	49.9	10	50	0	99.9	69	130			
Freon-113	47.2	2.5	50	0	94	55	141			
trans-1,2-Dichloroethene	51.7	2.5	50	0	103	63	130			
Methyl tert-butyl ether (MTBE)	44.3	1.3	50	0	89	47	150			
1,1-Dichloroethane	49.7	2.5	50	0	99	66	130			
2-Butanone (MEK)	587	50	1000	0	59	23	182			
Di-isopropyl Ether (DIPE)	46.3	2.5	50	0	93	59	139			
cis-1,2-Dichloroethene	50.7	2.5	50	0	101	70	130			
Bromochloromethane	49.1	2.5	50	0	98	70	132			
Chloroform	53.1	2.5	50	1.08	104	70	130			
Ethyl Tertiary Butyl Ether (ETBE)	44.6	2.5	50	0	89	59	182			
2,2-Dichloropropane	40.5	2.5	50	0	81	38	154			
1,2-Dichloroethane	47.6	2.5	50	0	95	65	134			
1,1,1-Trichloroethane	52.8	2.5	50	0	106	65	136			
1,1-Dichloropropene	43.3	2.5	50	0	87	68	132			
Carbon tetrachloride	45.4	2.5	50	0	91	58	148			
Benzene	50.7	1.3	50	0	101	59	138			
Tertiary Amyl Methyl Ether (TAME)	33	2.5	50	0	66	63	135			
Dibromomethane	49.4	2.5	50	0	99	70	130			
1,2-Dichloropropane	51.3	2.5	50	0	103	70	131			
Trichloroethene	41.1	2.5	50	0	82	65	144			
Bromodichloromethane	52.4	2.5	50	0	105	50	157			
4-Methyl-2-pentanone (MIBK)	89.9	13	125	0	72	20	182			
cis-1,3-Dichloropropene	38.8	2.5	50	0	78	63	131			
trans-1,3-Dichloropropene	38.9	2.5	50	0	78	65	136			
1,1,2-Trichloroethane	45.8	2.5	50	0	92	70	131			
Toluene	50	1.3	50	0	100	68	130			
1,3-Dichloropropane	51.7	2.5	50	0	103	70	130			
2-Hexanone	252	25	500	0	50	20	182			
Dibromochloromethane	47.4	2.5	50	0	95	42	155			
1,2-Dibromoethane (EDB)	86.9	5	100	0	87	70	130			
Tetrachloroethene	43.4	2.5	50	0	87	65	130			
1,1,1,2-Tetrachloroethane	47.1	2.5	50	0	94	70	130			
Chlorobenzene	54.1	2.5	50	0	108	70	130			
Ethylbenzene	42.9	1.3	50	0	86	68	130			
m,p-Xylene	38.3	1.3	50	0	77	68	131			
Bromoform	47.1	2.5	50	0	94	65	143			
Styrene	38.5	2.5	50	0	77	59	153			
o-Xylene	39.7	1.3	50	0	79	70	130			
1,1,2,2-Tetrachloroethane	45.5	2.5	50	0	91	67	130			
1,2,3-Trichloropropane	97.7	10	100	0	98	70	130			
Isopropylbenzene	50.8	2.5	50	0	102	55	138			
Bromobenzene	50.6	2.5	50	0	101	70	130			
n-Propylbenzene	51.2	2.5	50	0	102	67	133			
4-Chlorotoluene	47.6	2.5	50	0	95	70	130			
2-Chlorotoluene	49.6	2.5	50	0	99	70	130			
1,3,5-Trimethylbenzene	49.6	2.5	50	0	99	67	134			
tert-Butylbenzene	50.6	2.5	50	0	101	55	147			
1,2,4-Trimethylbenzene	46.5	2.5	50	0	93	65	135			
sec-Butylbenzene	48.8	2.5	50	0	98	68	135			
1,3-Dichlorobenzene	47.7	2.5	50	0	95	70	130			
1,4-Dichlorobenzene	41.6	2.5	50	0	83	70	130			
4-Isopropyltoluene	46.7	2.5	50	0	93	68	132			
1,2-Dichlorobenzene	46.9	2.5	50	0	94	70	130			
n-Butylbenzene	37	2.5	50	0	74	62	134			
1,2-Dibromo-3-chloropropane (DBCP)	215	15	250	0	86	64	130			



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Date:
12-Sep-12

QC Summary Report

Work Order:
12090402

1,2,4-Trichlorobenzene	33.9	10	50	0	68	62	133
Naphthalene	29.6	10	50	0	59	32	166
1,2,3-Trichlorobenzene	34.6	10	50	0	69	55	138
Xylenes, Total	78.1	1.3	100	0	78	70	130
Surr: 1,2-Dichloroethane-d4	50.4		50		101	70	130
Surr: Toluene-d8	50.4		50		101	70	130
Surr: 4-Bromofluorobenzene	44.9		50		90	70	130



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Date:
12-Sep-12

QC Summary Report

Work Order:
12090402

Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8260B

File ID: 12090821.D

Batch ID: MS12W0908A

Analysis Date: 09/08/2012 20:39

Sample ID: 12083044-09AMSD

Units: µg/L

Run ID: MSD_12_120908A

Prep Date: 09/08/2012 20:39

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	28.3	2.5	50	0	57	21	138	31.01	9.1(33)	
Chloromethane	32	10	50	0	64	23	144	33.85	5.7(27)	
Vinyl chloride	39.4	2.5	50	0	79	49	136	45.95	15.3(21)	
Chloroethane	33	2.5	50	0	66	21	159	41.79	23.7(40)	
Bromomethane	25.3	10	50	0	51	10	174	26.95	6.2(40)	
Trichlorofluoromethane	40.4	2.5	50	0	81	32	154	47.5	16.2(37)	
Acetone	367	50	1000	0	37	10	171	391.3	6.4(23)	
1,1-Dichloroethene	44.2	2.5	50	0	88	64	130	52.76	17.6(21)	
Tertiary Butyl Alcohol (TBA)	583	25	500	0	117	41	157	554.1	5.0(30)	
Dichloromethane	43.5	10	50	0	87	69	130	49.93	13.7(20)	
Freon-113	42.9	2.5	50	0	86	55	141	47.24	9.7(40)	
trans-1,2-Dichloroethene	49.2	2.5	50	0	98	63	130	51.67	5.0(20)	
Methyl tert-butyl ether (MTBE)	42.7	1.3	50	0	85	47	150	44.31	3.6(40)	
1,1-Dichloroethane	45	2.5	50	0	90	66	130	49.66	9.8(20)	
2-Butanone (MEK)	583	50	1000	0	58	23	182	587	0.8(22)	
Di-isopropyl Ether (DIPE)	43.8	2.5	50	0	88	59	139	46.3	5.5(20)	
cis-1,2-Dichloroethene	47.4	2.5	50	0	95	70	130	50.68	6.8(20)	
Bromochloromethane	46.6	2.5	50	0	93	70	132	49.12	5.3(20)	
Chloroform	47.6	2.5	50	1.08	93	70	130	53.06	10.9(20)	
Ethyl Tertiary Butyl Ether (ETBE)	42.3	2.5	50	0	85	59	182	44.59	5.3(40)	
2,2-Dichloropropane	36	2.5	50	0	72	38	154	40.51	11.7(22)	
1,2-Dichloroethane	43.8	2.5	50	0	88	65	134	47.59	8.3(20)	
1,1,1-Trichloroethane	46.1	2.5	50	0	92	65	136	52.79	13.5(20)	
1,1-Dichloropropene	39.4	2.5	50	0	79	68	132	43.28	9.4(20)	
Carbon tetrachloride	39.8	2.5	50	0	80	58	148	45.38	13.1(20)	
Benzene	46.3	1.3	50	0	93	59	138	50.74	9.2(21)	
Tertiary Amyl Methyl Ether (TAME)	31.9	2.5	50	0	64	63	135	32.96	3.3(40)	
Dibromomethane	47.4	2.5	50	0	95	70	130	49.38	4.2(20)	
1,2-Dichloropropane	45.3	2.5	50	0	91	70	131	51.31	12.4(20)	
Trichloroethene	37.4	2.5	50	0	75	65	144	41.11	9.3(20)	
Bromodichloromethane	47	2.5	50	0	94	50	157	52.44	10.9(20)	
4-Methyl-2-pentanone (MIBK)	85.8	13	125	0	69	20	182	89.85	4.6(20)	
cis-1,3-Dichloropropene	36.3	2.5	50	0	73	63	131	38.8	6.7(20)	
trans-1,3-Dichloropropene	35.8	2.5	50	0	72	65	136	38.92	8.3(20)	
1,1,2-Trichloroethane	43.6	2.5	50	0	87	70	131	45.83	5.0(20)	
Toluene	47.6	1.3	50	0	95	68	130	50.04	5.1(20)	
1,3-Dichloropropane	49.9	2.5	50	0	99.7	70	130	51.66	3.5(20)	
2-Hexanone	249	25	500	0	50	20	182	252.2	1.3(20)	
Dibromochloromethane	44.3	2.5	50	0	89	42	155	47.4	6.7(20)	
1,2-Dibromoethane (EDB)	83.6	5	100	0	84	70	130	86.94	3.9(20)	
Tetrachloroethene	42.1	2.5	50	0	84	65	130	43.44	3.0(20)	
1,1,1,2-Tetrachloroethane	43.2	2.5	50	0	86	70	130	47.08	8.7(20)	
Chlorobenzene	50.5	2.5	50	0	101	70	130	54.05	6.9(20)	
Ethylbenzene	40.1	1.3	50	0	80	68	130	42.85	6.6(20)	
m,p-Xylene	36.7	1.3	50	0	73	68	131	38.31	4.2(20)	
Bromoform	44.5	2.5	50	0	89	65	143	47.06	5.6(20)	
Styrene	36.5	2.5	50	0	73	59	153	38.51	5.4(37)	
o-Xylene	37.2	1.3	50	0	74	70	130	39.74	6.6(20)	
1,1,2,2-Tetrachloroethane	44.3	2.5	50	0	89	67	130	45.53	2.8(20)	
1,2,3-Trichloropropane	92.4	10	100	0	92	70	130	97.68	5.6(20)	
Isopropylbenzene	48.7	2.5	50	0	97	55	138	50.76	4.1(20)	
Bromobenzene	47.6	2.5	50	0	95	70	130	50.64	6.1(20)	
n-Propylbenzene	48.4	2.5	50	0	97	67	133	51.22	5.7(30)	
4-Chlorotoluene	45.5	2.5	50	0	91	70	130	47.63	4.5(20)	
2-Chlorotoluene	47.6	2.5	50	0	95	70	130	49.61	4.1(20)	
1,3,5-Trimethylbenzene	48.1	2.5	50	0	96	67	134	49.64	3.1(21)	
tert-Butylbenzene	47.6	2.5	50	0	95	55	147	50.6	6.0(20)	
1,2,4-Trimethylbenzene	44.9	2.5	50	0	90	65	135	46.53	3.7(25)	
sec-Butylbenzene	47.1	2.5	50	0	94	68	135	48.82	3.6(20)	
1,3-Dichlorobenzene	45.7	2.5	50	0	91	70	130	47.7	4.4(20)	
1,4-Dichlorobenzene	40.3	2.5	50	0	81	70	130	41.55	3.1(20)	
4-Isopropyltoluene	47.1	2.5	50	0	94	68	132	46.66	0.9(20)	
1,2-Dichlorobenzene	45	2.5	50	0	90	70	130	46.86	4.0(20)	
n-Butylbenzene	38.6	2.5	50	0	77	62	134	36.99	4.1(21)	
1,2-Dibromo-3-chloropropane (DBCP)	207	15	250	0	83	64	130	215.2	3.9(20)	



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QC Summary Report

Work Order:
12090402

1,2,4-Trichlorobenzene	31.5	10	50	0	63	62	133	33.94	7.5(29)
Naphthalene	27.4	10	50	0	55	32	166	29.55	7.7(40)
1,2,3-Trichlorobenzene	34.9	10	50	0	70	55	138	34.61	0.8(36)
Xylenes, Total	73.9	1.3	100	0	74	70	130	78.05	5.4(20)
Surr: 1,2-Dichloroethane-d4	48.9		50		98	70	130		
Surr: Toluene-d8	52		50		104	70	130		
Surr: 4-Bromofluorobenzene	44.8		50		90	70	130		

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Billing Information :

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

CA

WorkOrder : CHHL12090402
Report Due By : 5:00 PM On : 12-Sep-12

Client:
 CH2M Hill
 1000 Wilshire Boulevard
 21st Floor
 Los Angeles, CA 90017

Report Attention	Phone Number	EEmail Address
Daniel Jablonski	(213) 228-8271 x	daniel.jablonski@ch2m.com
Matthew Mayry	(213) 228-8271 x	matthew.mayry@ch2m.com
James Dye	(714) 560-4802 x	james_dye@kindermorgan.com

EDD Required : Yes

Sampled by : Client

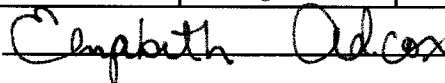
PO :
 Client's COC # : none Job : KMEP SFPP - Norwalk Site

Cooler Temp	Samples Received	Date Printed
0 °C	01-Sep-12	04-Sep-12

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Date	Alpha	Sub	TAT	Requested Tests						Sample Remarks		
							TPHE_W	TPHP_W	VOC_W						
CHH12090402-01A	GMW-O-18	AQ	08/30/12 13:30	6	0	6	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						

Comments: Security seals intact. Frozen ice. Saturday delivery. Samples received 9/1/12 kept cold and secure until login on 9/4/12. J Flags are required for VOCs. Direct bill Steve Defibaugh - ref. AFE #81195. Voas were received in labeled bag : for sample ID, date, and time, not marked for preservative. Analysts: 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
	Elizabeth Adcox	Alpha Analytical, Inc.	9.4.12 9:23

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

WELL GAUGING DATA

Project # 120926-ET1 Date 09/26/12 Client KMEP / CH2M Hill

Site 15306 Nonwalk Blvd., Nonwalk CA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOB	Notes	
GMW-0-15	0942	4					30.64	Ext. PoA	↓		
GMW-0-16	0930	4				28.46	48.89				
GMW-0-18	1006	4				30.83	Ext. PoA				
GMW-0-19	0855	4				27.90	40.07				
GMW-36	—	4	— Didn't gauge / No gauge hole —					Ext. PoA			
PZ-5	1010	4				28.03	37.84				

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120926-ET	Client: KMEP
Sampler: <i>M. Hines</i>	Start Date: <i>9/26/12</i>
Well I.D.: <i>GMW-36</i>	Well Diameter: 2 3 (4) 6 8
Total Well Depth: <i>EXT. PUMP</i>	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 EXT. PUMP

Start Purge Time: 0904 Flow Rate: 250 mL/min Pump Depth: —

Time	Temp. (C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
<i>0907</i>	<i>22.6</i>	<i>6.18</i>	<i>1939</i>	<i>342</i>	<i>0.99</i>	<i>-45</i>	<i>600</i>	<i>—</i>
<i>0910</i>	<i>22.6</i>	<i>6.20</i>	<i>2011</i>	<i>316</i>	<i>0.98</i>	<i>-52</i>	<i>1200</i>	<i>—</i>
<i>0913</i>	<i>22.7</i>	<i>6.24</i>	<i>2020</i>	<i>289</i>	<i>0.90</i>	<i>-56</i>	<i>1800</i>	<i>—</i>
<i>0916</i>	<i>22.7</i>	<i>6.27</i>	<i>2026</i>	<i>280</i>	<i>0.89</i>	<i>-63</i>	<i>2400</i>	<i>—</i>
<i>0919</i>	<i>22.7</i>	<i>6.29</i>	<i>2031</i>	<i>279</i>	<i>0.88</i>	<i>-65</i>	<i>3000</i>	<i>—</i>

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: <i>3000</i>
Sampling Time: <i>0920</i>	Sampling Date: <i>9/26/12</i>
Sample I.D.: <i>GMW-36</i>	Laboratory: <i>Alpha Analytical</i>
Analyzed for: TPHg TPHfp VOC's MTBE	Other: <i>See Saw</i>
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120926-671	Client: KMEP
Sampler: M. Huse	Start Date: 9/26/12
Well I.D.: GML6-0-15	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: - Ext. Port	Depth to Water: Pre: 30.64 Post: 30.64
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 EXT. PORT

Start Purge Time: 0940 Flow Rate: 200 ml/min Pump Depth:

Time	Temp. (°C or °F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mls</u>)	Depth to water
0943	21.4	6.53	2342	10	0.79	-97	600	-
0946	21.0	6.56	2400	8	0.72	-101	1200	-
0949	21.2	6.59	2416	7	0.70	-106	1800	-
0952	21.2	6.60	2418	7	0.69	-109	2400	-
0955	21.3	6.61	2423	7	0.69	-112	3000	-

Did well dewater? Yes <u>No</u>	Amount actually evacuated: <u>3000</u>
Sampling Time: <u>0952</u>	Sampling Date: <u>9/26/12</u>
Sample I.D.: <u>GML6-0-15</u>	Laboratory: Alpha Analytical
Analyzed for: <u>TPHg</u> <u>TPHfp</u> <u>VOC's</u> MTBE	Other: <u>See SW</u>
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120926-ET	Client: KMEP
Sampler: ET	Start Date: 09/26/12
Well I.D.: GMW-0-16	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 48.89	Depth to Water: Pre: 28.46 Post: 28.66 ⁵⁰ 28.66
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: 0933 Flow Rate: 400 mL/min Pump Depth: 47.0

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to water
0936	21.6	6.27	1855	6	0.68	74	1200	28.65
0939	21.8	6.22	1805	5	0.69	81	2400	28.65
0942	22.0	6.26	1800	5	0.69	79	3600	28.65
0945	22.2	6.27	1807	5	0.70	78	4800	28.65

Did well dewater? Yes <u>No</u>	Amount actually evacuated: 4800
Sampling Time: 0946	Sampling Date: 09/26/12
Sample I.D.: GMW-0-16	Laboratory: Alpha Analytical
Analyzed for: <u>TPHg</u> <u>TPHfp</u> <u>VOC's</u> MTBE	Other: See SOW
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120926-AT1	Client: KMEP
Sampler: M. Huser	Start Date: 9/26/12
Well I.D.: GML-0-18	Well Diameter: 2 3 (4) 6 8
Total Well Depth: Ext Pump	Depth to Water: Pre: 30.83 Post: 30.85
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: Ext. Pump

Start Purge Time: 1005 Flow Rate: 200ml/min Pump Depth: —

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1008	20.5	6.55	2383	8	1.12	-60	600	—
1011	20.6	6.60	2410	6	1.10	-62	1200	—
1014	20.7	6.61	2422	6	1.00	-66	1800	—
1017	20.7	6.62	2426	5	0.99	-69	2400	—
1020	20.9	6.62	2427	4	0.98	-69	3000	—

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: 3000 mL
Sampling Time: 1021	Sampling Date: 9/26/12
Sample I.D.: GML-0-18	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other: See SOW
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120926-ET1	Client: KMEP
Sampler: ET	Start Date: 09/26/12
Well I.D.: GMW-0-19	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 40.07	Depth to Water: Pre: 27.90 Post: 28.10
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: 0903 Flow Rate: 400 mL/min Pump Depth: 39.0

Time	Temp. (°C or °F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0906	22.8	6.20	1681	6	1.30	263	1200	28.10
0909	22.8	6.22	1683	6	1.27	265	2400	28.10
0912	22.9	6.23	1681	6	1.07	276	3600	28.10
0915	22.9	6.23	1683	7	1.05	269	4800	28.10
0918	22.9	6.23	1683	6	1.02	290	6000	28.10

Did well dewater? Yes <input checked="" type="radio"/> No <input type="radio"/>	Amount actually evacuated: 6000
Sampling Time: 0919	Sampling Date: 09/26/12
Sample I.D.: GMW-0-19	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHp VOC's MTBE	Other: See SOW
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120926-ETI	Client: KMEP
Sampler: ET	Start Date: 09/26/12
Well I.D.: PZ-5	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 37.84	Depth to Water: Pre: 28.03 Post: 28.20
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
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1012 Flow Rate: 400 mL/min Pump Depth: 36.8

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u>)	Depth to water
1015	21.7	6.42	2396	17	0.65	-46	1200	28.20
1018	21.8	6.23	2395	16	0.58	-65	2400	28.20
1021	22.0	6.25	2391	15	0.47	-58	3600	28.20
1024	22.2	6.26	2390	15	0.43	-56	4800	28.20
1027	22.6	6.28	2389	15	0.40	-54	6000	28.20

Did well dewater? Yes <u>No</u>	Amount actually evacuated: 6000
Sampling Time: 1028	Sampling Date: 09/26/12
Sample I.D.: PZ-5	Laboratory: Alpha Analytical
Analyzed for: <u>TPHg</u> <u>TPHfp</u> <u>VOC's</u> MTBE	<u>Other</u> : See SOW
Equipment Blank I.D.: <u>EB-1</u> @ Time 1035	Duplicate I.D.: <u>DUP-1</u>

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 1

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-0-15	09/26/12	0956	AQ	6	HCl	Voa's	X	X											
GMW-0-16	09/26/12	0946	AQ	6	HCl	Voa's	X	X											
GMW-0-18	09/26/12	1021	AQ	6	HCl	Voa's	X	X											
GMW-0-19	09/26/12	0919	AQ	6	HCl	Voa's	X	X											
GMW-36	09/26/12	0920	AQ	6	HCl	Voa's	X	X											
PZ-5	09/26/12	1028	AQ	6	HCl	Voa's	X	X											
DUP-1	09/26/12		AQ	6	HCl	Voa's	X	X											
EB-1	09/26/12	1035	AQ	6	HCl	Voa's	X	X											
TB-1	09/26/12	0850	AQ	3	HCl	Voa's		X											
								X											

SAMPLING COMPLETED DATE 09/26/12 TIME 1035 SAMPLING PERFORMED BY Eric Tanner

RESULTS NEEDED NO LATER THAN Standard

RELEASED BY *[Signature]* TIME 1215 RECEIVED BY _____ DATE _____ TIME _____

RELEASED BY _____ TIME _____ RECEIVED BY _____ DATE _____ TIME _____

RELEASED BY _____ TIME _____ RECEIVED BY _____ DATE _____ TIME _____

SHIPPED VIA _____ TIME SENT _____ COOLER # _____

Remediation Form 7.3-1, Well Inspection Checklist

Well Number: GMW-0-15 Inspector: ET Date: 9/26/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?	X		
2	Is the well easily visible?	X		
3	Is the well vault cover or protective casing clearly labeled?	X		
4	Is a well identification tag present and legible?	X		
5	Is there any physical damage to the well, well vault and cover, or protective casing?	X ET	X	
6	If applicable, is the cover to the well vault properly secured?	X		
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		X	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	X		
9	Is the well secured with a functioning lock?	X		
10	Is the well fitted with a water tight well cap?	X		
11	If applicable, is the well vault dry and free of debris?	X		
12	What is the measured depth of the well?			EXT Pump
13	Is the measured depth consistent with the as-built record?			
List any corrective measures to be considered:				



Remediation Form 7.3-1, Well Inspection Checklist

Well Number: Gmw-0-19 Inspector: ET Date: 9/26/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?	X		
2	Is the well easily visible?	X		
3	Is the well vault cover or protective casing clearly labeled?	X		
4	Is a well identification tag present and legible?	X		
5	Is there any physical damage to the well, well vault and cover, or protective casing?		X	
6	If applicable, is the cover to the well vault properly secured?	X		
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		X	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	X		
9	Is the well secured with a functioning lock?	X		
10	Is the well fitted with a water tight well cap?	X		
11	If applicable, is the well vault dry and free of debris?	X		
12	What is the measured depth of the well?			40.07
13	Is the measured depth consistent with the as-built record?	X		
List any corrective measures to be considered:				



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135
Date Received : 09/28/12

Job: KMEP DFSP Norwalk

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B

Client ID :	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
GMW-O-15					
Lab ID : CHH12092804-01A	TPH-E (DRO)	ND	0.050 mg/L	09/29/12	09/30/12
Date Sampled 09/26/12 09:56	Surr: Nonane	93	(49-145) %REC	09/29/12	09/30/12
	TPH-P (GRO)	0.22	0.050 mg/L	10/07/12	10/07/12
	Surr: 1,2-Dichloroethane-d4	95	(70-130) %REC	10/07/12	10/07/12
	Surr: Toluene-d8	102	(70-130) %REC	10/07/12	10/07/12
	Surr: 4-Bromofluorobenzene	93	(70-130) %REC	10/07/12	10/07/12
GMW-O-16					
Lab ID : CHH12092804-02A	TPH-E (DRO)	ND	0.050 mg/L	09/29/12	09/30/12
Date Sampled 09/26/12 09:46	Surr: Nonane	97	(49-145) %REC	09/29/12	09/30/12
	TPH-P (GRO)	ND	0.050 mg/L	10/07/12	10/07/12
	Surr: 1,2-Dichloroethane-d4	92	(70-130) %REC	10/07/12	10/07/12
	Surr: Toluene-d8	103	(70-130) %REC	10/07/12	10/07/12
	Surr: 4-Bromofluorobenzene	96	(70-130) %REC	10/07/12	10/07/12
GMW-O-18					
Lab ID : CHH12092804-03A	TPH-E (DRO)	ND X	0.10 mg/L	09/29/12	09/30/12
Date Sampled 09/26/12 10:21	Surr: Nonane	92	(49-145) %REC	09/29/12	09/30/12
	TPH-P (GRO)	0.055	0.050 mg/L	10/07/12	10/07/12
	Surr: 1,2-Dichloroethane-d4	94	(70-130) %REC	10/07/12	10/07/12
	Surr: Toluene-d8	104	(70-130) %REC	10/07/12	10/07/12
	Surr: 4-Bromofluorobenzene	95	(70-130) %REC	10/07/12	10/07/12
GMW-O-19					
Lab ID : CHH12092804-04A	TPH-E (DRO)	ND	0.050 mg/L	09/29/12	09/30/12
Date Sampled 09/26/12 09:19	Surr: Nonane	106	(49-145) %REC	09/29/12	09/30/12
	TPH-P (GRO)	ND	0.050 mg/L	10/07/12	10/07/12
	Surr: 1,2-Dichloroethane-d4	94	(70-130) %REC	10/07/12	10/07/12
	Surr: Toluene-d8	104	(70-130) %REC	10/07/12	10/07/12
	Surr: 4-Bromofluorobenzene	96	(70-130) %REC	10/07/12	10/07/12
GMW-36					
Lab ID : CHH12092804-05A	TPH-E (DRO)	6.6	0.050 mg/L	09/29/12	09/30/12
Date Sampled 09/26/12 09:20	Surr: Nonane	0 S51	(49-145) %REC	09/29/12	09/30/12
	TPH-P (GRO)	14	2.0 mg/L	10/08/12	10/08/12
	Surr: 1,2-Dichloroethane-d4	124	(70-130) %REC	10/08/12	10/08/12
	Surr: Toluene-d8	98	(70-130) %REC	10/08/12	10/08/12
	Surr: 4-Bromofluorobenzene	93	(70-130) %REC	10/08/12	10/08/12
PZ-5					
Lab ID : CHH12092804-06A	TPH-E (DRO)	0.39	0.050 mg/L	09/29/12	09/30/12
Date Sampled 09/26/12 10:28	Surr: Nonane	99	(49-145) %REC	09/29/12	09/30/12
	TPH-P (GRO)	6.2	2.0 mg/L	10/07/12	10/07/12
	Surr: 1,2-Dichloroethane-d4	95	(70-130) %REC	10/07/12	10/07/12
	Surr: Toluene-d8	101	(70-130) %REC	10/07/12	10/07/12
	Surr: 4-Bromofluorobenzene	95	(70-130) %REC	10/07/12	10/07/12



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Client ID : **DUP-1**

Lab ID :	CHH12092804-07A	TPH-E (DRO)	0.43	0.050 mg/L	09/29/12	09/30/12
Date Sampled	09/26/12 00:00	Surr: Nonane	109	(49-145) %REC	09/29/12	09/30/12
		TPH-P (GRO)	7.1	2.0 mg/L	10/07/12	10/07/12
		Surr: 1,2-Dichloroethane-d4	94	(70-130) %REC	10/07/12	10/07/12
		Surr: Toluene-d8	102	(70-130) %REC	10/07/12	10/07/12
		Surr: 4-Bromofluorobenzene	95	(70-130) %REC	10/07/12	10/07/12

Client ID : **EB-1**

Lab ID :	CHH12092804-08A	TPH-E (DRO)	ND	0.050 mg/L	09/29/12	09/30/12
Date Sampled	09/26/12 10:35	Surr: Nonane	97	(49-145) %REC	09/29/12	09/30/12
		TPH-P (GRO)	ND	0.050 mg/L	10/07/12	10/07/12
		Surr: 1,2-Dichloroethane-d4	94	(70-130) %REC	10/07/12	10/07/12
		Surr: Toluene-d8	104	(70-130) %REC	10/07/12	10/07/12
		Surr: 4-Bromofluorobenzene	96	(70-130) %REC	10/07/12	10/07/12

Diesel Range Organics (DRO) C13-C22

Gasoline Range Organics (GRO) C4-C13

S51 = Surrogate recovery could not be determined due to the presence of co-eluting hydrocarbons.

X = Reporting Limits were increased due to sample matrix interferences.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered in any way.

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10/9/12

Report Date



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255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12092804-01A
Client I.D. Number: GMW-O-15

Sampled: 09/26/12 09:56
Received: 09/28/12
Extracted: 10/07/12
Analyzed: 10/07/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	3.7	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	7.3	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	7.3	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	2,900	40 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	17	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	1.3	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	2.4	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	53	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	95	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	102	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	93	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	0.74	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

*This analyte was analyzed separately in order to achieve lower reporting limits for the other analytes.

ND = Not Detected

Roger Scholl *Randy Gardner* *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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10/9/12

Report Date

Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12092804-02A
Client I.D. Number: GMW-O-16

Sampled: 09/26/12 09:46
Received: 09/28/12
Extracted: 10/07/12
Analyzed: 10/07/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	1.0 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	92	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	103	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	96	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAP unless footnoted otherwise.

Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered in any way.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAP (01154CA) certifications for the data reported. Test results relate only to reported samples.

RS

10/9/12

Report Date

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12092804-03A
Client I.D. Number: GMW-O-18

Sampled: 09/26/12 10:21
Received: 09/28/12
Extracted: 10/07/12
Analyzed: 10/07/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	8,900	100 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	94	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	104	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	95	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

*This analyte was analyzed separately in order to achieve lower reporting limits for the other analytes.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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10/9/12

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12092804-04A
Client I.D. Number: GMW-O-19

Sampled: 09/26/12 09:19
Received: 09/28/12
Extracted: 10/07/12
Analyzed: 10/07/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	94	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	104	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	96	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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10/9/12

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255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12092804-05A
Client I.D. Number: GMW-36

Sampled: 09/26/12 09:20
Received: 09/28/12
Extracted: 10/07/12
Analyzed: 10/07/12

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	5.0 µg/L	45 Chlorobenzene	ND	5.0 µg/L
2 Chloromethane	ND	20 µg/L	46 Ethylbenzene	ND	2.5 µg/L
3 Vinyl chloride	ND	5.0 µg/L	47 m,p-Xylene	96	2.5 µg/L
4 Chloroethane	ND	5.0 µg/L	48 Bromoform	ND	5.0 µg/L
5 Bromomethane	ND	20 µg/L	49 Xylenes, Total	230	2.5 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	5.0 µg/L
7 Acetone	ND	100 µg/L	51 o-Xylene	130	2.5 µg/L
8 1,1-Dichloroethene	ND	5.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	5.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	100	50 µg/L	53 1,2,3-Trichloropropane	ND	20 µg/L
10 Dichloromethane	ND	20 µg/L	54 Isopropylbenzene	ND	5.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	5.0 µg/L
12 Carbon disulfide	ND	25 µg/L	56 n-Propylbenzene	ND	5.0 µg/L
13 trans-1,2-Dichloroethene	ND	5.0 µg/L	57 4-Chlorotoluene	ND	5.0 µg/L
14 Methyl tert-butyl ether (MTBE)	17	2.5 µg/L	58 2-Chlorotoluene	ND	5.0 µg/L
15 1,1-Dichloroethane	ND	5.0 µg/L	59 1,3,5-Trimethylbenzene	430	5.0 µg/L
16 Vinyl acetate	ND	500 µg/L	60 tert-Butylbenzene	ND	5.0 µg/L
17 2-Butanone (MEK)	ND	100 µg/L	61 1,2,4-Trimethylbenzene	ND	5.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	5.0 µg/L	62 sec-Butylbenzene	ND	5.0 µg/L
19 cis-1,2-Dichloroethene	ND	5.0 µg/L	63 1,3-Dichlorobenzene	ND	5.0 µg/L
20 Bromochloromethane	ND	5.0 µg/L	64 1,4-Dichlorobenzene	ND	5.0 µg/L
21 Chloroform	ND	5.0 µg/L	65 4-Isopropyltoluene	15	5.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	5.0 µg/L	66 1,2-Dichlorobenzene	ND	5.0 µg/L
23 2,2-Dichloropropane	ND	5.0 µg/L	67 n-Butylbenzene	58	5.0 µg/L
24 1,2-Dichloroethane	ND	5.0 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	160	30 µg/L
25 1,1,1-Trichloroethane	ND	5.0 µg/L	69 1,2,4-Trichlorobenzene	ND	20 µg/L
26 1,1-Dichloropropene	ND	5.0 µg/L	70 Naphthalene	64	20 µg/L
27 Carbon tetrachloride	ND	5.0 µg/L	71 1,2,3-Trichloroethane-d4	ND	20 µg/L
28 Benzene	35	2.5 µg/L	72 Surr: 1,2-Dichloroethane-d4	95	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	5.0 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	5.0 µg/L	74 Surr: 4-Bromofluorobenzene	95	(70-130) %REC
31 1,2-Dichloropropane	ND	5.0 µg/L			
32 Trichloroethene	ND	5.0 µg/L			
33 Bromodichloromethane	ND	5.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	25 µg/L			
35 cis-1,3-Dichloropropene	ND	5.0 µg/L			
36 trans-1,3-Dichloropropene	ND	5.0 µg/L			
37 1,1,2-Trichloroethane	ND	5.0 µg/L			
38 Toluene	11	2.5 µg/L			
39 1,3-Dichloropropane	ND	5.0 µg/L			
40 2-Hexanone	ND	50 µg/L			
41 Dibromochloromethane	ND	5.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	10 µg/L			
43 Tetrachloroethene	ND	5.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	5.0 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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Report Date

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Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12092804-06A
Client I.D. Number: PZ-5

Sampled: 09/26/12 10:28
Received: 09/28/12
Extracted: 10/07/12
Analyzed: 10/07/12

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	20 µg/L	45 Chlorobenzene	ND	20 µg/L
2 Chloromethane	ND	80 µg/L	46 Ethylbenzene	160	10 µg/L
3 Vinyl chloride	ND	20 µg/L	47 m,p-Xylene	47	10 µg/L
4 Chloroethane	ND	20 µg/L	48 Bromoform	ND	20 µg/L
5 Bromomethane	ND	80 µg/L	49 Xylenes, Total	110	10 µg/L
6 Trichlorofluoromethane	ND	20 µg/L	50 Styrene	ND	20 µg/L
7 Acetone	ND	400 µg/L	51 o-Xylene	67	10 µg/L
8 1,1-Dichloroethene	ND	20 µg/L	52 1,1,2,2-Tetrachloroethane	ND	20 µg/L
9 Tertiary Butyl Alcohol (TBA)	67,000	2,000 µg/L	53 1,2,3-Trichloropropane	ND	80 µg/L
10 Dichloromethane	ND	80 µg/L	54 Isopropylbenzene	ND	20 µg/L
11 Freon-113	ND	20 µg/L	55 Bromobenzene	ND	20 µg/L
12 Carbon disulfide	ND	100 µg/L	56 n-Propylbenzene	ND	20 µg/L
13 trans-1,2-Dichloroethene	ND	20 µg/L	57 4-Chlorotoluene	ND	20 µg/L
14 Methyl tert-butyl ether (MTBE)	1,500	10 µg/L	58 2-Chlorotoluene	ND	20 µg/L
15 1,1-Dichloroethane	ND	20 µg/L	59 1,3,5-Trimethylbenzene	ND	20 µg/L
16 Vinyl acetate	ND	2,000 µg/L	60 tert-Butylbenzene	ND	20 µg/L
17 2-Butanone (MEK)	ND	400 µg/L	61 1,2,4-Trimethylbenzene	44	20 µg/L
18 Di-isopropyl Ether (DIPE)	ND	20 µg/L	62 sec-Butylbenzene	ND	20 µg/L
19 cis-1,2-Dichloroethene	ND	20 µg/L	63 1,3-Dichlorobenzene	ND	20 µg/L
20 Bromochloromethane	ND	20 µg/L	64 1,4-Dichlorobenzene	ND	20 µg/L
21 Chloroform	ND	20 µg/L	65 4-Isopropyltoluene	ND	20 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/L	66 1,2-Dichlorobenzene	ND	20 µg/L
23 2,2-Dichloropropane	ND	20 µg/L	67 n-Butylbenzene	ND	20 µg/L
24 1,2-Dichloroethane	ND	20 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	120 µg/L
25 1,1,1-Trichloroethane	ND	20 µg/L	69 1,2,4-Trichlorobenzene	ND	80 µg/L
26 1,1-Dichloropropene	ND	20 µg/L	70 Naphthalene	ND	80 µg/L
27 Carbon tetrachloride	ND	20 µg/L	71 1,2,3-Trichlorobenzene	ND	80 µg/L
28 Benzene	2,000	10 µg/L	72 Surr: 1,2-Dichloroethane-d4	95	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/L	73 Surr: Toluene-d8	101	(70-130) %REC
30 Dibromomethane	ND	20 µg/L	74 Surr: 4-Bromofluorobenzene	95	(70-130) %REC
31 1,2-Dichloropropane	ND	20 µg/L			
32 Trichloroethene	ND	20 µg/L			
33 Bromodichloromethane	ND	20 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	100 µg/L			
35 cis-1,3-Dichloropropene	ND	20 µg/L			
36 trans-1,3-Dichloropropene	ND	20 µg/L			
37 1,1,2-Trichloroethane	ND	20 µg/L			
38 Toluene	25	10 µg/L			
39 1,3-Dichloropropane	ND	20 µg/L			
40 2-Hexanone	ND	200 µg/L			
41 Dibromochloromethane	ND	20 µg/L			
42 1,2-Dibromoethane (EDB)	ND	40 µg/L			
43 Tetrachloroethene	ND	20 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	20 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

*This analyte was analyzed separately in order to achieve lower reporting limits for the other analytes.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
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10/9/12

Report Date

Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12092804-07A
Client I.D. Number: DUP-1

Sampled: 09/26/12 00:00
Received: 09/28/12
Extracted: 10/07/12
Analyzed: 10/07/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	20 µg/L	45 Chlorobenzene	ND	20 µg/L
2 Chloromethane	ND	80 µg/L	46 Ethylbenzene	160	10 µg/L
3 Vinyl chloride	ND	20 µg/L	47 m,p-Xylene	34	10 µg/L
4 Chloroethane	ND	20 µg/L	48 Bromoform	ND	20 µg/L
5 Bromomethane	ND	80 µg/L	49 Xylenes, Total	120	10 µg/L
6 Trichlorofluoromethane	ND	20 µg/L	50 Styrene	ND	20 µg/L
7 Acetone	ND	400 µg/L	51 o-Xylene	86	10 µg/L
8 1,1-Dichloroethene	ND	20 µg/L	52 1,1,2,2-Tetrachloroethane	ND	20 µg/L
9 Tertiary Butyl Alcohol (TBA)	75,000	2,000 µg/L	53 1,2,3-Trichloropropane	ND	80 µg/L
10 Dichloromethane	ND	80 µg/L	54 Isopropylbenzene	ND	20 µg/L
11 Freon-113	ND	20 µg/L	55 Bromobenzene	ND	20 µg/L
12 Carbon disulfide	ND	100 µg/L	56 n-Propylbenzene	ND	20 µg/L
13 trans-1,2-Dichloroethene	ND	20 µg/L	57 4-Chlorotoluene	ND	20 µg/L
14 Methyl tert-butyl ether (MTBE)	2,100	10 µg/L	58 2-Chlorotoluene	ND	20 µg/L
15 1,1-Dichloroethane	ND	20 µg/L	59 1,3,5-Trimethylbenzene	ND	20 µg/L
16 Vinyl acetate	ND	2,000 µg/L	60 tert-Butylbenzene	ND	20 µg/L
17 2-Butanone (MEK)	ND	400 µg/L	61 1,2,4-Trimethylbenzene	39	20 µg/L
18 Di-isopropyl Ether (DIPE)	ND	20 µg/L	62 sec-Butylbenzene	ND	20 µg/L
19 cis-1,2-Dichloroethene	ND	20 µg/L	63 1,3-Dichlorobenzene	ND	20 µg/L
20 Bromochloromethane	ND	20 µg/L	64 1,4-Dichlorobenzene	ND	20 µg/L
21 Chloroform	ND	20 µg/L	65 4-Isopropyltoluene	ND	20 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/L	66 1,2-Dichlorobenzene	ND	20 µg/L
23 2,2-Dichloropropane	ND	20 µg/L	67 n-Butylbenzene	ND	20 µg/L
24 1,2-Dichloroethane	ND	20 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	120 µg/L
25 1,1,1-Trichloroethane	ND	20 µg/L	69 1,2,4-Trichlorobenzene	ND	80 µg/L
26 1,1-Dichloropropene	ND	20 µg/L	70 Naphthalene	ND	80 µg/L
27 Carbon tetrachloride	ND	20 µg/L	71 1,2,3-Trichlorobenzene	ND	80 µg/L
28 Benzene	2,400	10 µg/L	72 Surr: 1,2-Dichloroethane-d4	94	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/L	73 Surr: Toluene-d8	102	(70-130) %REC
30 Dibromomethane	ND	20 µg/L	74 Surr: 4-Bromofluorobenzene	95	(70-130) %REC
31 1,2-Dichloropropane	ND	20 µg/L			
32 Trichloroethene	ND	20 µg/L			
33 Bromodichloromethane	ND	20 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	100 µg/L			
35 cis-1,3-Dichloropropene	ND	20 µg/L			
36 trans-1,3-Dichloropropene	ND	20 µg/L			
37 1,1,2-Trichloroethane	ND	20 µg/L			
38 Toluene	32	10 µg/L			
39 1,3-Dichloropropane	ND	20 µg/L			
40 2-Hexanone	ND	200 µg/L			
41 Dibromochloromethane	ND	20 µg/L			
42 1,2-Dibromoethane (EDB)	ND	40 µg/L			
43 Tetrachloroethene	ND	20 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	20 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

*This analyte was analyzed separately in order to achieve lower reporting limits for the other analytes.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAP unless footnoted otherwise.

Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered in any way.

Alpha Analytical, Inc. currently holds appropriate and available California (42010) and NELAP (011546A) certifications for the data reported. Test results relate only to reported samples.

10/9/12

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12092804-08A
Client I.D. Number: EB-1

Sampled: 09/26/12 10:35
Received: 09/28/12
Extracted: 10/07/12
Analyzed: 10/07/12

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	94	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	104	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	96	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered in any way.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

10/9/12

Report Date

Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12092804-09A
Client I.D. Number: TB-1

Sampled: 09/26/12 08:00
Received: 09/28/12
Extracted: 10/07/12
Analyzed: 10/07/12

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	95	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	104	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	95	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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10/9/12

Report Date

Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

VOC Sample Preservation Report

Work Order: CHH12092804

Job: KMEP DFSP Norwalk

Alpha's Sample ID	Client's Sample ID	Matrix	pH
12092804-01A	GMW-O-15	Aqueous	2
12092804-02A	GMW-O-16	Aqueous	2
12092804-03A	GMW-O-18	Aqueous	6
12092804-04A	GMW-O-19	Aqueous	2
12092804-05A	GMW-36	Aqueous	6
12092804-06A	PZ-5	Aqueous	6
12092804-07A	DUP-1	Aqueous	6
12092804-08A	EB-1	Aqueous	2
12092804-09A	TB-1	Aqueous	2

10/9/12

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
09-Oct-12

QC Summary Report

Work Order:
12092804

Method Blank

Type: MBLK Test Code: EPA Method SW8015B/C Ext

File ID: 7A09291233.D

Batch ID: 29566

Analysis Date: 09/30/2012 02:45

Sample ID: MBLK-29566

Units : mg/L

Run ID: FID_7_120929A

Prep Date: 09/29/2012 13:19

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	ND	0.05								
Surr: Nonane	0.145		0.15		97	49	145			

Laboratory Control Spike

Type: LCS Test Code: EPA Method SW8015B/C Ext

File ID: 7A09291234.D

Batch ID: 29566

Analysis Date: 09/30/2012 03:12

Sample ID: LCS-29566

Units : mg/L

Run ID: FID_7_120929A

Prep Date: 09/29/2012 13:19

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.44	0.05	2.5		97	70	130			
Surr: Nonane	0.151		0.15		101	49	145			

Sample Matrix Spike

Type: MS Test Code: EPA Method SW8015B/C Ext

File ID: 7A09291236.D

Batch ID: 29566

Analysis Date: 09/30/2012 04:06

Sample ID: 12092803-01AMS

Units : mg/L

Run ID: FID_7_120929A

Prep Date: 09/29/2012 13:19

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.08	0.05	2.5	0	83	53	150			
Surr: Nonane	0.086		0.15		57	49	145			

Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8015B/C Ext

File ID: 7A09291237.D

Batch ID: 29566

Analysis Date: 09/30/2012 04:33

Sample ID: 12092803-01AMSD

Units : mg/L

Run ID: FID_7_120929A

Prep Date: 09/29/2012 13:19

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.64	0.05	2.5	0	105	53	150	2.076	23.7(47)	
Surr: Nonane	0.148		0.15		99	49	145			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
09-Oct-12

QC Summary Report

Work Order:
12092804

Method Blank

File ID: 12100705.D

Type: MBLK Test Code: EPA Method SW8015B/C

Batch ID: MS15W1007B

Analysis Date: 10/07/2012 12:51

Sample ID: MBLK MS15W1007B

Units : mg/L

Run ID: MSD_15_121007A

Prep Date: 10/07/2012 12:51

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	0.05								
Surr: 1,2-Dichloroethane-d4	0.00952		0.01		95	70	130			
Surr: Toluene-d8	0.0105		0.01		105	70	130			
Surr: 4-Bromofluorobenzene	0.0095		0.01		95	70	130			

Laboratory Control Spike

File ID: 12100703.D

Type: LCS Test Code: EPA Method SW8015B/C

Batch ID: MS15W1007B

Analysis Date: 10/07/2012 12:07

Sample ID: GLCS MS15W1007B

Units : mg/L

Run ID: MSD_15_121007A

Prep Date: 10/07/2012 12:07

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.36	0.05	0.4		90	70	130			
Surr: 1,2-Dichloroethane-d4	0.00965		0.01		97	70	130			
Surr: Toluene-d8	0.0101		0.01		101	70	130			
Surr: 4-Bromofluorobenzene	0.00937		0.01		94	70	130			

Sample Matrix Spike

File ID: 12100716.D

Type: MS Test Code: EPA Method SW8015B/C

Batch ID: MS15W1007B

Analysis Date: 10/07/2012 16:50

Sample ID: 12100443-06AGS

Units : mg/L

Run ID: MSD_15_121007A

Prep Date: 10/07/2012 16:50

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.93	0.25	2	0	97	51	144			
Surr: 1,2-Dichloroethane-d4	0.0493		0.05		99	70	130			
Surr: Toluene-d8	0.0498		0.05		99.6	70	130			
Surr: 4-Bromofluorobenzene	0.0475		0.05		95	70	130			

Sample Matrix Spike Duplicate

File ID: 12100717.D

Type: MSD Test Code: EPA Method SW8015B/C

Batch ID: MS15W1007B

Analysis Date: 10/07/2012 17:11

Sample ID: 12100443-06AGSD

Units : mg/L

Run ID: MSD_15_121007A

Prep Date: 10/07/2012 17:11

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.06	0.25	2	0	103	51	144	1.931	6.3(29)	
Surr: 1,2-Dichloroethane-d4	0.0476		0.05		95	70	130			
Surr: Toluene-d8	0.0509		0.05		102	70	130			
Surr: 4-Bromofluorobenzene	0.0479		0.05		96	70	130			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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09-Oct-12

QC Summary Report

Work Order:
12092804

n-Butylbenzene	ND	1				
1,2-Dibromo-3-chloropropane (DBCP)	ND	5				
1,2,4-Trichlorobenzene	ND	2				
Naphthalene	ND	10				
1,2,3-Trichlorobenzene	ND	2				
Xylenes, Total	ND	0.5				
Surr: 1,2-Dichloroethane-d4	9.52		10	95	70	130
Surr: Toluene-d8	10.5		10	105	70	130
Surr: 4-Bromofluorobenzene	9.5		10	95	70	130



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QC Summary Report

Work Order:
12092804

Laboratory Control Spike

Type: LCS Test Code: EPA Method SW8260B

File ID: 12100702.D

Batch ID: MS15W1007A

Analysis Date: 10/07/2012 11:45

Sample ID: LCS MS15W1007A

Units: µg/L

Run ID: MSD_15_121007A

Prep Date: 10/07/2012 11:45

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	10.5	1	10		105	37	137			
Chloromethane	14.3	2	10		143	43	140			L51
Vinyl chloride	9.05	1	10		91	80	120			
Chloroethane	8.48	1	10		85	43	141			
Bromomethane	9.71	2	10		97	11	160			
Trichlorofluoromethane	9.44	1	10		94	40	148			
Acetone	145	10	200		73	36	171			
1,1-Dichloroethene	9.09	1	10		91	80	120			
Tertiary Butyl Alcohol (TBA)	69.6	10	100		70	44	156			
Dichloromethane	8.35	2	10		84	69	130			
Freon-113	9.48	1	10		95	70	137			
trans-1,2-Dichloroethene	8.95	1	10		90	70	130			
Methyl tert-butyl ether (MTBE)	7.46	0.5	10		75	65	140			
1,1-Dichloroethane	8.37	1	10		84	70	130			
2-Butanone (MEK)	153	10	200		76	23	182			
Di-isopropyl Ether (DIPE)	8.06	1	10		81	70	130			
cis-1,2-Dichloroethene	8.69	1	10		87	70	130			
Bromochloromethane	8.6	1	10		86	70	132			
Chloroform	8.54	1	10		85	80	120			
Ethyl Tertiary Butyl Ether (ETBE)	7.95	1	10		80	65	139			
2,2-Dichloropropane	9.77	1	10		98	68	154			
1,2-Dichloroethane	7.95	1	10		80	70	132			
1,1,1-Trichloroethane	9.06	1	10		91	70	135			
1,1-Dichloropropene	9.25	1	10		93	70	130			
Carbon tetrachloride	9.24	1	10		92	61	148			
Benzene	8.57	0.5	10		86	70	130			
Tertiary Amyl Methyl Ether (TAME)	7.49	1	10		75	68	134			
Dibromomethane	8.13	1	10		81	70	130			
1,2-Dichloropropane	8.39	1	10		84	80	120			
Trichloroethene	8.67	1	10		87	65	144			
Bromodichloromethane	7.83	1	10		78	50	157			
4-Methyl-2-pentanone (MIBK)	17.1	2.5	25		68	20	182			
cis-1,3-Dichloropropene	7.16	1	10		72	70	131			
trans-1,3-Dichloropropene	6.81	1	10		68	70	136			L50
1,1,2-Trichloroethane	7.97	1	10		80	70	130			
Toluene	8.85	0.5	10		89	80	120			
1,3-Dichloropropane	8.08	1	10		81	70	130			
2-Hexanone	68.2	5	100		68	20	182			
Dibromochloromethane	7.4	1	10		74	42	155			
1,2-Dibromoethane (EDB)	16.4	2	20		82	70	130			
Tetrachloroethene	9.52	1	10		95	70	130			
1,1,1,2-Tetrachloroethane	8.97	1	10		90	70	130			
Chlorobenzene	8.9	1	10		89	70	130			
Ethylbenzene	9.11	0.5	10		91	80	120			
m,p-Xylene	9.39	0.5	10		94	70	130			
Bromoform	7.18	1	10		72	68	143			
Styrene	9.06	1	10		91	64	153			
o-Xylene	8.61	0.5	10		86	70	130			
1,1,2,2-Tetrachloroethane	8.68	1	10		87	70	130			
1,2,3-Trichloropropane	16.9	2	20		85	70	130			
Isopropylbenzene	8.89	1	10		89	68	138			
Bromobenzene	8.68	1	10		87	70	130			
n-Propylbenzene	9.24	1	10		92	70	133			
4-Chlorotoluene	8.89	1	10		89	70	130			
2-Chlorotoluene	8.94	1	10		89	70	130			
1,3,5-Trimethylbenzene	8.94	1	10		89	70	134			
tert-Butylbenzene	9.26	1	10		93	55	147			
1,2,4-Trimethylbenzene	9.14	1	10		91	70	134			
sec-Butylbenzene	9.16	1	10		92	70	135			
1,3-Dichlorobenzene	8.91	1	10		89	70	130			
1,4-Dichlorobenzene	8.79	1	10		88	70	130			
4-Isopropyltoluene	9.41	1	10		94	70	132			
1,2-Dichlorobenzene	8.41	1	10		84	70	130			
n-Butylbenzene	9.24	1	10		92	70	134			



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QC Summary Report

Work Order:
12092804

1,2-Dibromo-3-chloropropane (DBCP)	33.5	3	50	67	67	130
1,2,4-Trichlorobenzene	7.05	2	10	71	67	132
Naphthalene	4.45	2	10	45	38	154
1,2,3-Trichlorobenzene	6.21	2	10	62	56	137
Xylenes, Total	18	0.5	20	90	70	130
Surr: 1,2-Dichloroethane-d4	10.2		10	102	70	130
Surr: Toluene-d8	10.3		10	103	70	130
Surr: 4-Bromofluorobenzene	9.51		10	95	70	130



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Date:
09-Oct-12

QC Summary Report

Work Order:
12092804

Sample Matrix Spike

Type: MS Test Code: EPA Method SW8260B

File ID: 12100714.D

Batch ID: MS15W1007A

Analysis Date: 10/07/2012 16:06

Sample ID: 12100443-06AMS

Units : µg/L

Run ID: MSD_15_121007A

Prep Date: 10/07/2012 16:06

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	45.8	2.5	50	0	92	21	138			
Chloromethane	67.6	10	50	0	135	23	144			
Vinyl chloride	45.5	2.5	50	0	91	49	136			
Chloroethane	42.6	2.5	50	0	85	21	159			
Bromomethane	39.4	10	50	0	79	10	174			
Trichlorofluoromethane	45.6	2.5	50	0	91	32	154			
Acetone	700	50	1000	0	70	10	171			
1,1-Dichloroethene	44.8	2.5	50	0	90	64	130			
Tertiary Butyl Alcohol (TBA)	361	25	500	0	72	41	157			
Dichloromethane	43.1	10	50	0	86	69	130			
Freon-113	44	2.5	50	0	88	55	141			
trans-1,2-Dichloroethene	44.6	2.5	50	0	89	63	130			
Methyl tert-butyl ether (MTBE)	40	1.3	50	0	80	47	150			
1,1-Dichloroethane	42.7	2.5	50	0	85	66	130			
2-Butanone (MEK)	766	50	1000	0	77	23	182			
Di-isopropyl Ether (DIPE)	42.9	2.5	50	0	86	59	139			
cis-1,2-Dichloroethene	44.1	2.5	50	0	88	70	130			
Bromochloromethane	42.7	2.5	50	0	85	70	132			
Chloroform	43.2	2.5	50	0	86	70	130			
Ethyl Tertiary Butyl Ether (ETBE)	42.3	2.5	50	0	85	59	182			
2,2-Dichloropropane	40.5	2.5	50	0	81	38	154			
1,2-Dichloroethane	41.5	2.5	50	0	83	65	134			
1,1,1-Trichloroethane	45.9	2.5	50	0	92	65	136			
1,1-Dichloropropene	45.6	2.5	50	0	91	68	132			
Carbon tetrachloride	46	2.5	50	0	92	58	148			
Benzene	46.3	1.3	50	1.58	89	59	138			
Tertiary Amyl Methyl Ether (TAME)	41.3	2.5	50	0	83	63	135			
Dibromomethane	42.1	2.5	50	0	84	70	130			
1,2-Dichloropropane	43.3	2.5	50	0	87	70	131			
Trichloroethene	42.6	2.5	50	0	85	65	144			
Bromodichloromethane	40.2	2.5	50	0	80	50	157			
4-Methyl-2-pentanone (MIBK)	89.4	13	125	0	72	20	182			
cis-1,3-Dichloropropene	34.8	2.5	50	0	70	63	131			
trans-1,3-Dichloropropene	33.6	2.5	50	0	67	65	136			
1,1,2-Trichloroethane	42.2	2.5	50	0	84	70	131			
Toluene	44.3	1.3	50	0	89	68	130			
1,3-Dichloropropane	42	2.5	50	0	84	70	130			
2-Hexanone	239	25	500	0	48	20	182			
Dibromochloromethane	37.7	2.5	50	0	75	42	155			
1,2-Dibromoethane (EDB)	83.4	5	100	0	83	70	130			
Tetrachloroethene	44.2	2.5	50	0	88	65	130			
1,1,1,2-Tetrachloroethane	44.5	2.5	50	0	89	70	130			
Chlorobenzene	44	2.5	50	0	88	70	130			
Ethylbenzene	44.8	1.3	50	0	90	68	130			
m,p-Xylene	45.3	1.3	50	0	91	68	131			
Bromoform	36.1	2.5	50	0	72	65	143			
Styrene	44.7	2.5	50	0	89	59	153			
o-Xylene	42.7	1.3	50	0	85	70	130			
1,1,2,2-Tetrachloroethane	44.8	2.5	50	0	90	67	130			
1,2,3-Trichloropropane	87.1	10	100	0	87	70	130			
Isopropylbenzene	42.9	2.5	50	0	86	55	138			
Bromobenzene	42.6	2.5	50	0	85	70	130			
n-Propylbenzene	43.3	2.5	50	0	87	67	133			
4-Chlorotoluene	42.3	2.5	50	0	85	70	130			
2-Chlorotoluene	43	2.5	50	0	86	70	130			
1,3,5-Trimethylbenzene	42.3	2.5	50	0	85	67	134			
tert-Butylbenzene	44.3	2.5	50	0	89	55	147			
1,2,4-Trimethylbenzene	43.5	2.5	50	0	87	65	135			
sec-Butylbenzene	43.3	2.5	50	0	87	68	135			
1,3-Dichlorobenzene	42.4	2.5	50	0	85	70	130			
1,4-Dichlorobenzene	41.4	2.5	50	0	83	70	130			
4-Isopropyltoluene	43.2	2.5	50	0	86	68	132			
1,2-Dichlorobenzene	40.6	2.5	50	0	81	70	130			
n-Butylbenzene	40.7	2.5	50	0	81	62	134			
1,2-Dibromo-3-chloropropane (DBCP)	176	15	250	0	70	64	130			



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QC Summary Report

Work Order:

12092804

1,2,4-Trichlorobenzene	33.6	10	50	0	67	62	133
Naphthalene	24.3	10	50	0	49	32	166
1,2,3-Trichlorobenzene	31.5	10	50	0	63	55	138
Xylenes, Total	87.9	1.3	100	0	88	70	130
Surr: 1,2-Dichloroethane-d4	53.1		50		106	70	130
Surr: Toluene-d8	51		50		102	70	130
Surr: 4-Bromofluorobenzene	47.6		50		95	70	130



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QC Summary Report

Work Order:
12092804

Sample Matrix Spike Duplicate

File ID: 12100715.D

Type: MSD

Test Code: EPA Method SW8260B

Batch ID: MS15W1007A

Analysis Date: 10/07/2012 16:28

Sample ID: 12100443-06AMSD

Units : µg/L

Run ID: MSD_15_121007A

Prep Date: 10/07/2012 16:28

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	44.2	2.5	50	0	88	21	138	45.75	3.5(33)	
Chloromethane	63.8	10	50	0	128	23	144	67.62	5.8(27)	
Vinyl chloride	44.9	2.5	50	0	90	49	136	45.54	1.5(21)	
Chloroethane	43.7	2.5	50	0	87	21	159	42.64	2.5(40)	
Bromomethane	47.2	10	50	0	94	10	174	39.44	18.0(40)	
Trichlorofluoromethane	45	2.5	50	0	90	32	154	45.63	1.4(37)	
Acetone	771	50	1000	0	77	10	171	699.8	9.7(23)	
1,1-Dichloroethene	45.3	2.5	50	0	91	64	130	44.75	1.1(21)	
Tertiary Butyl Alcohol (TBA)	425	25	500	0	85	41	157	361.2	16.2(30)	
Dichloromethane	44.1	10	50	0	88	69	130	43.07	2.4(20)	
Freon-113	42.7	2.5	50	0	85	55	141	44.03	3.0(40)	
trans-1,2-Dichloroethene	45	2.5	50	0	90	63	130	44.63	0.8(20)	
Methyl tert-butyl ether (MTBE)	43.5	1.3	50	0	87	47	150	39.95	8.4(40)	
1,1-Dichloroethane	44	2.5	50	0	88	66	130	42.69	3.1(20)	
2-Butanone (MEK)	845	50	1000	0	85	23	182	766.3	9.8(22)	
Di-isopropyl Ether (DIPE)	45.6	2.5	50	0	91	59	139	42.85	6.2(20)	
cis-1,2-Dichloroethene	45.1	2.5	50	0	90	70	130	44.12	2.2(20)	
Bromochloromethane	45.1	2.5	50	0	90	70	132	42.74	5.4(20)	
Chloroform	44.3	2.5	50	0	89	70	130	43.16	2.6(20)	
Ethyl Tertiary Butyl Ether (ETBE)	45.7	2.5	50	0	91	59	182	42.33	7.6(40)	
2,2-Dichloropropane	40.3	2.5	50	0	81	38	154	40.45	0.3(22)	
1,2-Dichloroethane	43.7	2.5	50	0	87	65	134	41.47	5.2(20)	
1,1,1-Trichloroethane	46.4	2.5	50	0	93	65	136	45.85	1.3(20)	
1,1-Dichloropropene	45.9	2.5	50	0	92	68	132	45.59	0.7(20)	
Carbon tetrachloride	45.9	2.5	50	0	92	58	148	45.98	0.3(20)	
Benzene	47.5	1.3	50	1.58	92	59	138	46.32	2.5(21)	
Tertiary Amyl Methyl Ether (TAME)	43.5	2.5	50	0	87	63	135	41.3	5.2(40)	
Dibromomethane	45.4	2.5	50	0	91	70	130	42.07	7.7(20)	
1,2-Dichloropropane	45.9	2.5	50	0	92	70	131	43.3	5.7(20)	
Trichloroethene	43	2.5	50	0	86	65	144	42.6	1.0(20)	
Bromodichloromethane	41.9	2.5	50	0	84	50	157	40.22	4.0(20)	
4-Methyl-2-pentanone (MIBK)	101	13	125	0	81	20	182	89.43	12.4(20)	
cis-1,3-Dichloropropene	36.6	2.5	50	0	73	63	131	34.77	5.2(20)	
trans-1,3-Dichloropropene	35.4	2.5	50	0	71	65	136	33.56	5.3(20)	
1,1,2-Trichloroethane	45.3	2.5	50	0	91	70	131	42.18	7.1(20)	
Toluene	45.1	1.3	50	0	90	68	130	44.26	1.9(20)	
1,3-Dichloropropane	45.3	2.5	50	0	91	70	130	42.03	7.4(20)	
2-Hexanone	272	25	500	0	54	20	182	238.5	13.2(20)	
Dibromochloromethane	39.9	2.5	50	0	80	42	155	37.65	5.8(20)	
1,2-Dibromoethane (EDB)	88.5	5	100	0	88	70	130	83.42	5.9(20)	
Tetrachloroethene	43.7	2.5	50	0	87	65	130	44.18	1.2(20)	
1,1,1,2-Tetrachloroethane	46.6	2.5	50	0	93	70	130	44.45	4.7(20)	
Chlorobenzene	45.8	2.5	50	0	92	70	130	43.99	3.9(20)	
Ethylbenzene	45.5	1.3	50	0	91	68	130	44.82	1.5(20)	
m,p-Xylene	46.2	1.3	50	0	92	68	131	45.25	2.1(20)	
Bromoform	38.7	2.5	50	0	77	65	143	36.13	6.8(20)	
Styrene	46.7	2.5	50	0	93	59	153	44.7	4.3(37)	
o-Xylene	43.7	1.3	50	0	87	70	130	42.67	2.3(20)	
1,1,2,2-Tetrachloroethane	49.5	2.5	50	0	99	67	130	44.8	10.0(20)	
1,2,3-Trichloropropane	95.2	10	100	0	95	70	130	87.14	8.9(20)	
Isopropylbenzene	43.6	2.5	50	0	87	55	138	42.89	1.5(20)	
Bromobenzene	44.9	2.5	50	0	90	70	130	42.6	5.2(20)	
n-Propylbenzene	43.4	2.5	50	0	87	67	133	43.3	0.3(30)	
4-Chlorotoluene	42.9	2.5	50	0	86	70	130	42.26	1.6(20)	
2-Chlorotoluene	44	2.5	50	0	88	70	130	42.95	2.3(20)	
1,3,5-Trimethylbenzene	43	2.5	50	0	86	67	134	42.31	1.7(21)	
tert-Butylbenzene	45.3	2.5	50	0	91	55	147	44.27	2.3(20)	
1,2,4-Trimethylbenzene	44.1	2.5	50	0	88	65	135	43.52	1.2(25)	
sec-Butylbenzene	43.4	2.5	50	0	87	68	135	43.32	0.1(20)	
1,3-Dichlorobenzene	43.7	2.5	50	0	87	70	130	42.35	3.2(20)	
1,4-Dichlorobenzene	42.9	2.5	50	0	86	70	130	41.39	3.5(20)	
4-Isopropyltoluene	43.2	2.5	50	0	86	68	132	43.17	0.1(20)	
1,2-Dichlorobenzene	42.9	2.5	50	0	86	70	130	40.6	5.6(20)	
n-Butylbenzene	40.5	2.5	50	0	81	62	134	40.65	0.5(21)	
1,2-Dibromo-3-chloropropane (DBCP)	197	15	250	0	79	64	130	176.1	11.3(20)	



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
09-Oct-12

QC Summary Report

Work Order:
12092804

1,2,4-Trichlorobenzene	35.3	10	50	0	71	62	133	33.64	4.8(29)
Naphthalene	28.4	10	50	0	57	32	166	24.33	15.5(40)
1,2,3-Trichlorobenzene	34.3	10	50	0	69	55	138	31.47	8.7(36)
Xylenes, Total	89.9	1.3	100	0	90	70	130	87.92	2.2(20)
Surr: 1,2-Dichloroethane-d4	52.9		50		106	70	130		
Surr: Toluene-d8	50.8		50		102	70	130		
Surr: 4-Bromofluorobenzene	48.4		50		97	70	130		

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

L50 = Analyte recovery was below acceptance limits for the LCS, but was acceptable in the MS/MSD.

L51 = Analyte recovery was above acceptance limits for the LCS, but was acceptable in the MS/MSD.

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

CA

WorkOrder : CHHL12092804
Report Due By : 5:00 PM On : 08-Oct-12

Client:
 CH2M Hill
 1000 Wilshire Boulevard
 21st Floor
 Los Angeles, CA 90017

Report Attention	Phone Number	EMail Address
Daniel Jablonski	(213) 228-8271 x	daniel.jablonski@ch2m.com
Matthew Mayry	(213) 228-8271 x	matthew.mayry@ch2m.com

EDD Required : Yes

Sampled by : Eric Tanner

PO :

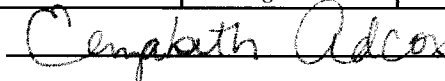
Cooler Temp	Samples Received	Date Printed
3 °C	28-Sep-12	28-Sep-12

Client's COC # : none Job : KMEP DFSP Norwalk

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha Sub TAT	Requested Tests						Sample Remarks	
				TPHE_W	TPH/P_W	VOC_W					
CHH12092804-01A	GMW-O-15	AQ 09/26/12 09:56	6 0 6	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate					
CHH12092804-02A	GMW-O-16	AQ 09/26/12 09:46	6 0 6	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate					
CHH12092804-03A	GMW-O-18	AQ 09/26/12 10:21	6 0 6	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate					
CHH12092804-04A	GMW-O-19	AQ 09/26/12 09:19	6 0 6	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate					
CHH12092804-05A	GMW-36	AQ 09/26/12 09:20	6 0 6	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate					
CHH12092804-06A	PZ-5	AQ 09/26/12 10:28	6 0 6	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate					
CHH12092804-07A	DUP-1	AQ 09/26/12 00:00	6 0 6	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate					
CHH12092804-08A	EB-1	AQ 09/26/12 10:35	6 0 6	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate					

Comments: Security seals intact. Frozen ice. Analysts: 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:		Elizabeth Adcox	Alpha Analytical, Inc.	9-28-12 1351

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

CHAIN-OF-CUSTODY RECORD

CA

WorkOrder : CHHL12092804
Report Due By : 5:00 PM On : 08-Oct-12

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

Client:
 CH2M Hill
 1000 Wilshire Boulevard
 21st Floor
 Los Angeles, CA 90017

Report Attention	Phone Number	E-Mail Address
Daniel Jablonski	(213) 228-8271 x	daniel.jablonski@ch2m.com
Matthew Mayry	(213) 228-8271 x	matthew.mayry@ch2m.com

EDD Required : Yes

Sampled by : Eric Tanner

PO :
 Client's COC # : none Job : KMEP DFSP Norwalk

<u>Cooler Temp</u>	<u>Samples Received</u>	<u>Date Printed</u>
3 °C	28-Sep-12	28-Sep-12

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Date	Alpha	Sub	TAT	Requested Tests						Sample Remarks		
							TPH/E_W	TPH/P_W	VOC_W						
CHH12092804-09A	TB-1	AQ	09/26/12 08:00	3	0	6			TPHE(0.05) +Vinyl acetate						Reno Trip Blank 7/17/12

Comments: Security seals intact. Frozen ice. Analysts: 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>Elizabeth Adcox</i>	Elizabeth Adcox	Alpha Analytical, Inc.	9-28-12 1351

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.
 Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) 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 1

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-0-15	09/26/12	0956	AQ	6	HCl	Voa's	X	X												CHH12092807
GMW-0-16	09/26/12	0946	AQ	6	HCl	Voa's	X	X												
GMW-0-18	09/26/12	1021	AQ	6	HCl	Voa's	X	X												
GMW-0-19	09/26/12	0919	AQ	6	HCl	Voa's	X	X												
GMW-36	09/26/12	0920	AQ	6	HCl	Voa's	X	X												
PZ-5	09/26/12	1028	AQ	6	HCl	Voa's	X	X												
DUP-1	09/26/12		AQ	6	HCl	Voa's	X	X												
EB-1	09/26/12	1035	AQ	6	HCl	Voa's	X	X												
TB-1	09/26/12	0850	AQ	3	HCl	Voa's		X												
								X	(ET)											

SAMPLING COMPLETED DATE 09/26/12 TIME 1035 SAMPLING PERFORMED BY Eric Tanner

RESULTS NEEDED NO LATER THAN Standard

RELEASED BY *[Signature]*

TIME 1215 RECEIVED BY MA(SC)

DATE 9-26-12 TIME 1215

RELEASED BY MA(SC)

TIME 1300 RECEIVED BY *[Signature]*

DATE 9-27-12 TIME 1300

RELEASED BY *[Signature]*

TIME 1300 RECEIVED BY Elizabeth Aldcox

DATE 9-28-12 TIME 1351

SHIPPED VIA TIME SENT COOLER #

WELL GAUGING DATA

Project # 12129-DF-1 Date 11-29-12 Client KMEP

Site KMEP @ NORWALK

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
EMW-015									TOC	
EMW-016	0910	4					28.61	48.79		
EMW-018										
EMW-019	0947	4					28.16	39.96		
EMW-36	0800	4		31.68	2.25		33.93	EXT PUMP		
PZ-5	1100	4					28.34	37.81		

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>121129-261</u>	Client: <u>KMEP</u>
Sampler: <u>DF</u>	Start Date: <u>11-29-12</u>
Well I.D.: <u>GMW-0-15</u>	Well Diameter: 2 3 4 6 8 <u> </u>
Total Well Depth: <u>Ext pump</u>	Depth to Water: Pre: <u>Ext pump</u> Post: <u>Ext pump</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC 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: 0845 Flow Rate: 200 ml Pump Depth: EXT PUMP

Time	Temp. °C or °F	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
<u>0848</u>	<u>20.9</u>	<u>6.94</u>	<u>2388</u>	<u>5</u>	<u>1.126</u>	<u>-89.4</u>	<u>600</u>	<u>—</u>
<u>0851</u>	<u>21.0</u>	<u>6.97</u>	<u>2396</u>	<u>4</u>	<u>1.45</u>	<u>-93.2</u>	<u>1200</u>	<u>—</u>
<u>0854</u>	<u>21.1</u>	<u>7.00</u>	<u>2402</u>	<u>4</u>	<u>1.39</u>	<u>-91.6</u>	<u>1800</u>	<u>—</u>
<u>0857</u>	<u>21.0</u>	<u>7.01</u>	<u>2390</u>	<u>4</u>	<u>1.37</u>	<u>-95.2</u>	<u>2400</u>	<u>—</u>

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: <u>2400ml</u>
Sampling Time: <u>0900</u>	Sampling Date: <u>11-29-12</u>
Sample I.D.: <u>GMW-0-15</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>TPHg TPHfp VOC's MTBE</u>	Other: <u>See C.O.C</u>
Equipment Blank I.D.: <u>@</u>	Duplicate I.D.: <u>Time</u>

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121129-2F-1	Client: KMEP
Sampler: 2F	Start Date: 11-29-12
Well I.D.: GMW-0-16	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 48.79	Depth to Water: Pre: 28.61 Post: 28.70
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: 0920 Flow Rate: 300 mL/min Pump Depth: 43'

Time	Temp. (C or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to water
0923	20.1	7.09	1690	12	1.58	15.8	900	28.63
0926	20.1	7.11	1685	4	1.29	20.3	1800	28.69
0929	20.0	7.12	1629	5	1.19	35.7	2700	28.70
0932	20.0	7.10	1653	5	1.13	33.2	3600	28.70

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 7600
Sampling Time: 0934	Sampling Date: 11-29-12
Sample I.D.: GMW-0-16	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Order: See C.O.C.
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>121129-DF-1</u>	Client: <u>KMEP</u>
Sampler: <u>DF</u>	Start Date: <u>11-29-12</u>
Well I.D.: <u>GMW-0-18</u>	Well Diameter: 2 3 4 <u>6</u> 8
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: <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: 1038 Flow Rate: 500 Pump Depth: EXT PUMP

Time	Temp. (<u>C</u> or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to water
<u>1040</u>	<u>19.5</u>	<u>6.87</u>	<u>2099</u>	<u>2</u>	<u>0.65</u>	<u>-77.5</u>	<u>1500</u>	<u>—</u>
<u>1044</u>	<u>19.5</u>	<u>6.86</u>	<u>2106</u>	<u>2</u>	<u>0.62</u>	<u>-77.2</u>	<u>3000</u>	<u>—</u>
<u>1047</u>	<u>19.5</u>	<u>6.86</u>	<u>2183</u>	<u>2</u>	<u>0.61</u>	<u>-88.3</u>	<u>4500</u>	<u>—</u>
<u>1050</u>	<u>19.5</u>	<u>6.86</u>	<u>2201</u>	<u>2</u>	<u>0.60</u>	<u>-89.2</u>	<u>6000</u>	<u>—</u>

Did well dewater? Yes No	Amount actually evacuated: <u>6000</u>
Sampling Time: <u>1052</u>	Sampling Date: <u>11-29-12</u>
Sample I.D.: <u>GMW-0-18</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>TPHg TPHfp VOC's MTBE</u>	Other: <u>See C.O.C.</u>
Equipment Blank I.D.: <u> </u> @ <u> </u> Time	Duplicate I.D.: <u> </u>

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>121129-2F1</u>	Client: <u>KMEP</u> KMEP
Sampler: <u>DF</u>	Start Date: <u>11-29-12</u>
Well I.D.: <u>GMW-0-19</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 _____
Total Well Depth: <u>39.96</u>	Depth to Water: Pre: <u>28.16</u> Post: <u>28.23</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: 0950 Flow Rate: 500 ml/min Pump Depth: 35'

Time	Temp. (C or F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u>)	Depth to water
<u>0953</u>	<u>20.4</u>	<u>7.05</u>	<u>1400</u>	<u>20</u>	<u>0.89</u>	<u>16.8</u>	<u>1500</u>	<u>28.20</u>
<u>0956</u>	<u>20.3</u>	<u>7.01</u>	<u>1462</u>	<u>12</u>	<u>0.60</u>	<u>15.3</u>	<u>3000</u>	<u>28.23</u>
<u>0959</u>	<u>20.3</u>	<u>6.99</u>	<u>1444</u>	<u>9</u>	<u>0.51</u>	<u>15.0</u>	<u>4500</u>	<u>28.23</u>
<u>1002</u>	<u>20.3</u>	<u>6.98</u>	<u>1450</u>	<u>8</u>	<u>0.48</u>	<u>13.2</u>	<u>6000</u>	<u>28.23</u>
<u>1005</u>	<u>20.2</u>	<u>6.98</u>	<u>1439</u>	<u>8</u>	<u>0.47</u>	<u>13.5</u>	<u>7500</u>	<u>28.23</u>

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>7500ml</u>
Sampling Time: <u>1007</u>	Sampling Date: <u>11-29-12</u>
Sample I.D.: <u>GMW-0-19</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>TPHg TPHfp VOC's MTBE</u>	Other: <u>See C.O.C</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 12/1/29-DF	Client: KMEP
Sampler: DF	Start Date: 11-29-12
Well I.D.: GMW-36	Well Diameter: 2 3 4 6 8 _____
Total Well Depth: EXT PUMP	Depth to Water: Pre: 33.93 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: 0810 Flow Rate: 200 mL Pump Depth: EXT PUMP

Time	Temp. (°C or °F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0813	21.9	6.89	2241	12	2.33	-181.5	600	—
0816	21.8	6.87	2222	10	2.63	-187.5	1200	—
0819	21.8	6.85	2219	8	2.60	-190	1800	—
0822	21.9	6.85	2214	8	2.56	-195	2400	—

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 2400
Sampling Time: 0822	Sampling Date: 11-29-12
Sample I.D.: GMW-36	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 #: 121129-021	Client: KMEP
Sampler: DF	Start Date: 11-29-12
Well I.D.: PZ-5	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 37.81	Depth to Water: Pre: 28.34 Post:
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: 1105 Flow Rate: 500 mL/MIN Pump Depth: 34'

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to water
1108	20.2	6.95	2617	35	1.73	-171.9	1500	28.40
1111	20.1	6.90	2632	30	0.99	-174.2	3000	28.40
1114	20.1	6.88	2639	28	0.85	-177.1	4500	28.41
1117	20.1	6.88	2645	27	0.80	-180.3	6000	28.41
1120	20.1	6.89	2645	25	0.81	-179.2	7500	28.41

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 7500 mL
Sampling Time: 1125	Sampling Date: 11-29-12
Sample I.D.: PZ-5	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other: See C.O.C
Equipment Blank I.D.: EB-1 @ Time 1135	Duplicate I.D.: DUP-1

1125

WELLHEAD INSPECTION CHECKLIST

Page ____ of ____

Client KMEP @ NORWALK Date 11-29-12

Site Address _____

Job Number 1129-2F-1 Technician (Signature)

Well ID	Well Inspected - No Corrective Action Required	WELL IS SECURABLE BY DESIGN (12" or less)	WELL IS CLEARLY MARKED WITH THE WORDS "MONITORING WELL" (12" or less)	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
EMW-0-15	X									
EMW-0-16	X									
EMW-0-18	X									
EMW-0-19	X									
EMW-36	X									
PZ-5	X									

NOTES: _____



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135
Date Received : 12/01/12

Job: KMEP DFSP Norwalk

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B / SW8260B

Client ID	Lab ID	Date Sampled	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID : GMW-O-15	Lab ID : CHH12120305-01A	Date Sampled 11/29/12 09:00	TPH-E (DRO)	0.075	0.050 mg/L	12/04/12	12/04/12
			Surr: Nonane	97	(49-145) %REC	12/04/12	12/04/12
			TPH-P (GRO)	0.38	0.20 mg/L	12/04/12	12/04/12
			Surr: 1,2-Dichloroethane-d4	107	(70-130) %REC	12/04/12	12/04/12
			Surr: Toluene-d8	101	(70-130) %REC	12/04/12	12/04/12
			Surr: 4-Bromofluorobenzene	92	(70-130) %REC	12/04/12	12/04/12
Client ID : GMW-O-16	Lab ID : CHH12120305-02A	Date Sampled 11/29/12 09:34	TPH-E (DRO)	0.083	0.050 mg/L	12/04/12	12/04/12
			Surr: Nonane	97	(49-145) %REC	12/04/12	12/04/12
			TPH-P (GRO)	ND	0.050 mg/L	12/04/12	12/04/12
			Surr: 1,2-Dichloroethane-d4	104	(70-130) %REC	12/04/12	12/04/12
			Surr: Toluene-d8	100	(70-130) %REC	12/04/12	12/04/12
			Surr: 4-Bromofluorobenzene	92	(70-130) %REC	12/04/12	12/04/12
Client ID : GMW-O-18	Lab ID : CHH12120305-03A	Date Sampled 11/29/12 10:52	TPH-E (DRO)	ND	0.050 mg/L	12/04/12	12/04/12
			Surr: Nonane	94	(49-145) %REC	12/04/12	12/04/12
			TPH-P (GRO)	0.11	0.050 mg/L	12/04/12	12/04/12
			Surr: 1,2-Dichloroethane-d4	105	(70-130) %REC	12/04/12	12/04/12
			Surr: Toluene-d8	102	(70-130) %REC	12/04/12	12/04/12
			Surr: 4-Bromofluorobenzene	94	(70-130) %REC	12/04/12	12/04/12
Client ID : GMW-O-19	Lab ID : CHH12120305-04A	Date Sampled 11/29/12 10:07	TPH-E (DRO)	ND	0.050 mg/L	12/04/12	12/04/12
			Surr: Nonane	108	(49-145) %REC	12/04/12	12/04/12
			TPH-P (GRO)	ND	0.050 mg/L	12/04/12	12/04/12
			Surr: 1,2-Dichloroethane-d4	109	(70-130) %REC	12/04/12	12/04/12
			Surr: Toluene-d8	101	(70-130) %REC	12/04/12	12/04/12
			Surr: 4-Bromofluorobenzene	94	(70-130) %REC	12/04/12	12/04/12
Client ID : GMW-36	Lab ID : CHH12120305-05A	Date Sampled 11/29/12 08:22	TPH-E (DRO)	6.6	0.050 mg/L	12/04/12	12/04/12
			Surr: Nonane	112	(49-145) %REC	12/04/12	12/04/12
			TPH-P (GRO)	8.4	1.0 mg/L	12/04/12	12/04/12
			Surr: 1,2-Dichloroethane-d4	105	(70-130) %REC	12/04/12	12/04/12
			Surr: Toluene-d8	100	(70-130) %REC	12/04/12	12/04/12
			Surr: 4-Bromofluorobenzene	95	(70-130) %REC	12/04/12	12/04/12
Client ID : PZ-5	Lab ID : CHH12120305-06A	Date Sampled 11/29/12 11:25	TPH-E (DRO)	0.42 K	0.050 mg/L	12/04/12	12/04/12
			Surr: Nonane	118	(49-145) %REC	12/04/12	12/04/12
			TPH-P (GRO)	8.3	4.0 mg/L	12/04/12	12/04/12
			Surr: 1,2-Dichloroethane-d4	107	(70-130) %REC	12/04/12	12/04/12
			Surr: Toluene-d8	98	(70-130) %REC	12/04/12	12/04/12
			Surr: 4-Bromofluorobenzene	93	(70-130) %REC	12/04/12	12/04/12



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Client ID : **DUP-1**

Lab ID :	CHH12120305-07A	TPH-E (DRO)	0.51	K	0.050 mg/L	12/04/12	12/04/12
Date Sampled	11/29/12 00:00	Surr: Nonane	102		(49-145) %REC	12/04/12	12/04/12
		TPH-P (GRO)	7.7		4.0 mg/L	12/04/12	12/04/12
		Surr: 1,2-Dichloroethane-d4	104		(70-130) %REC	12/04/12	12/04/12
		Surr: Toluene-d8	99		(70-130) %REC	12/04/12	12/04/12
		Surr: 4-Bromofluorobenzene	93		(70-130) %REC	12/04/12	12/04/12

Client ID : **EB-1**

Lab ID :	CHH12120305-08A	TPH-E (DRO)	ND		0.050 mg/L	12/04/12	12/04/12
Date Sampled	11/29/12 11:35	Surr: Nonane	104		(49-145) %REC	12/04/12	12/04/12
		TPH-P (GRO)	ND		0.050 mg/L	12/04/12	12/04/12
		Surr: 1,2-Dichloroethane-d4	109		(70-130) %REC	12/04/12	12/04/12
		Surr: Toluene-d8	100		(70-130) %REC	12/04/12	12/04/12
		Surr: 4-Bromofluorobenzene	93		(70-130) %REC	12/04/12	12/04/12

Diesel Range Organics (DRO) C13-C22

Gasoline Range Organics (GRO) C4-C13

K = DRO concentration may include contributions from lighter-end hydrocarbons that elute in the DRO range.

ND = Not Detected

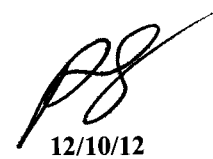
Roger Scholl *Randy Gardner* *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
 Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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12/10/12

Report Date



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255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12120305-01A
Client I.D. Number: GMW-O-15

Sampled: 11/29/12 09:00
Received: 12/01/12
Extracted: 12/04/12
Analyzed: 12/04/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	2.0 µg/L	45 Chlorobenzene	ND	2.0 µg/L
2 Chloromethane	ND	8.0 µg/L	46 Ethylbenzene	3.0	1.0 µg/L
3 Vinyl chloride	ND	2.0 µg/L	47 m,p-Xylene	6.4	1.0 µg/L
4 Chloroethane	ND	2.0 µg/L	48 Bromoform	ND	2.0 µg/L
5 Bromomethane	ND	8.0 µg/L	49 Xylenes, Total	6.4	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	2.0 µg/L
7 Acetone	ND	40 µg/L	51 o-Xylene	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	2.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	3,900	20 µg/L	53 1,2,3-Trichloropropane	ND	8.0 µg/L
10 Dichloromethane	ND	8.0 µg/L	54 Isopropylbenzene	ND	2.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	2.0 µg/L
12 Carbon disulfide	ND	10 µg/L	56 n-Propylbenzene	ND	2.0 µg/L
13 trans-1,2-Dichloroethene	ND	2.0 µg/L	57 4-Chlorotoluene	ND	2.0 µg/L
14 Methyl tert-butyl ether (MTBE)	33	1.0 µg/L	58 2-Chlorotoluene	ND	2.0 µg/L
15 1,1-Dichloroethane	ND	2.0 µg/L	59 1,3,5-Trimethylbenzene	ND	2.0 µg/L
16 Vinyl acetate	ND	200 µg/L	60 tert-Butylbenzene	ND	2.0 µg/L
17 2-Butanone (MEK)	ND	40 µg/L	61 1,2,4-Trimethylbenzene	3.3	2.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	2.0 µg/L	62 sec-Butylbenzene	ND	2.0 µg/L
19 cis-1,2-Dichloroethene	ND	2.0 µg/L	63 1,3-Dichlorobenzene	ND	2.0 µg/L
20 Bromochloromethane	ND	2.0 µg/L	64 1,4-Dichlorobenzene	ND	2.0 µg/L
21 Chloroform	ND	2.0 µg/L	65 4-Isopropyltoluene	ND	2.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	2.0 µg/L	66 1,2-Dichlorobenzene	ND	2.0 µg/L
23 2,2-Dichloropropane	ND	2.0 µg/L	67 n-Butylbenzene	ND	2.0 µg/L
24 1,2-Dichloroethane	ND	2.0 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	12 µg/L
25 1,1,1-Trichloroethane	ND	2.0 µg/L	69 1,2,4-Trichlorobenzene	ND	8.0 µg/L
26 1,1-Dichloropropene	ND	2.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	2.0 µg/L	71 1,2,3-Trichlorobenzene	ND	8.0 µg/L
28 Benzene	140	1.0 µg/L	72 Surr: 1,2-Dichloroethane-d4	107	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	2.0 µg/L	73 Surr: Toluene-d8	101	(70-130) %REC
30 Dibromomethane	ND	2.0 µg/L	74 Surr: 4-Bromofluorobenzene	92	(70-130) %REC
31 1,2-Dichloropropane	ND	2.0 µg/L			
32 Trichloroethene	ND	2.0 µg/L			
33 Bromodichloromethane	ND	2.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	2.0 µg/L			
36 trans-1,3-Dichloropropene	ND	2.0 µg/L			
37 1,1,2-Trichloroethane	ND	2.0 µg/L			
38 Toluene	1.3	1.0 µg/L			
39 1,3-Dichloropropane	ND	2.0 µg/L			
40 2-Hexanone	ND	20 µg/L			
41 Dibromochloromethane	ND	2.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	4.0 µg/L			
43 Tetrachloroethene	ND	2.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	2.0 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer

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[Signature]

12/10/12

Report Date

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12120305-02A
Client I.D. Number: GMW-O-16

Sampled: 11/29/12 09:34
Received: 12/01/12
Extracted: 12/04/12
Analyzed: 12/04/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	0.56	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	0.56	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	104	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	100	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	92	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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RJ
12/10/12

Report Date

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Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12120305-03A
Client I.D. Number: GMW-O-18

Sampled: 11/29/12 10:52
Received: 12/01/12
Extracted: 12/04/12
Analyzed: 12/04/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	10,000	200 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	105	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	102	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	94	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

*This analyte was analyzed separately on 12/4/12 in order to achieve lower reporting limits for the other analytes.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer

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12/10/12

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ANALYTICAL REPORT

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Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12120305-04A
Client I.D. Number: GMW-O-19

Sampled: 11/29/12 10:07
Received: 12/01/12
Extracted: 12/04/12
Analyzed: 12/04/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	70	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	109	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	101	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	94	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12120305-05A
Client I.D. Number: GMW-36

Sampled: 11/29/12 08:22
Received: 12/01/12
Extracted: 12/04/12
Analyzed: 12/04/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	10 µg/L	45 Chlorobenzene	ND	10 µg/L
2 Chloromethane	ND	40 µg/L	46 Ethylbenzene	66	5.0 µg/L
3 Vinyl chloride	ND	10 µg/L	47 m,p-Xylene	350	5.0 µg/L
4 Chloroethane	ND	10 µg/L	48 Bromoform	ND	10 µg/L
5 Bromomethane	ND	40 µg/L	49 Xylenes, Total	490	5.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	10 µg/L
7 Acetone	ND	200 µg/L	51 o-Xylene	140	5.0 µg/L
8 1,1-Dichloroethene	ND	10 µg/L	52 1,1,2,2-Tetrachloroethane	ND	10 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	100 µg/L	53 1,2,3-Trichloropropane	ND	40 µg/L
10 Dichloromethane	ND	40 µg/L	54 Isopropylbenzene	ND	10 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	10 µg/L
12 Carbon disulfide	ND	50 µg/L	56 n-Propylbenzene	ND	10 µg/L
13 trans-1,2-Dichloroethene	ND	10 µg/L	57 4-Chlorotoluene	ND	10 µg/L
14 Methyl tert-butyl ether (MTBE)	190	5.0 µg/L	58 2-Chlorotoluene	ND	10 µg/L
15 1,1-Dichloroethane	ND	10 µg/L	59 1,3,5-Trimethylbenzene	190	10 µg/L
16 Vinyl acetate	ND	1,000 µg/L	60 tert-Butylbenzene	ND	10 µg/L
17 2-Butanone (MEK)	ND	200 µg/L	61 1,2,4-Trimethylbenzene	110	10 µg/L
18 Di-isopropyl Ether (DIPE)	ND	10 µg/L	62 sec-Butylbenzene	ND	10 µg/L
19 cis-1,2-Dichloroethene	ND	10 µg/L	63 1,3-Dichlorobenzene	ND	10 µg/L
20 Bromochloromethane	ND	10 µg/L	64 1,4-Dichlorobenzene	ND	10 µg/L
21 Chloroform	ND	10 µg/L	65 4-Isopropyltoluene	ND	10 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	10 µg/L	66 1,2-Dichlorobenzene	ND	10 µg/L
23 2,2-Dichloropropane	ND	10 µg/L	67 n-Butylbenzene	21	10 µg/L
24 1,2-Dichloroethane	ND	10 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	60 µg/L
25 1,1,1-Trichloroethane	ND	10 µg/L	69 1,2,4-Trichlorobenzene	ND	40 µg/L
26 1,1-Dichloropropene	ND	10 µg/L	70 Naphthalene	90	40 µg/L
27 Carbon tetrachloride	ND	10 µg/L	71 1,2,3-Trichlorobenzene	ND	40 µg/L
28 Benzene	520	5.0 µg/L	72 Surr: 1,2-Dichloroethane-d4	105	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	10 µg/L	73 Surr: Toluene-d8	100	(70-130) %REC
30 Dibromomethane	ND	10 µg/L	74 Surr: 4-Bromofluorobenzene	95	(70-130) %REC
31 1,2-Dichloropropane	ND	10 µg/L			
32 Trichloroethene	ND	10 µg/L			
33 Bromodichloromethane	ND	10 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	50 µg/L			
35 cis-1,3-Dichloropropene	ND	10 µg/L			
36 trans-1,3-Dichloropropene	ND	10 µg/L			
37 1,1,2-Trichloroethane	ND	10 µg/L			
38 Toluene	550	5.0 µg/L			
39 1,3-Dichloropropane	ND	10 µg/L			
40 2-Hexanone	ND	100 µg/L			
41 Dibromochloromethane	ND	10 µg/L			
42 1,2-Dibromoethane (EDB)	ND	20 µg/L			
43 Tetrachloroethene	ND	10 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	10 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer

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Alpha Analytical, Inc.

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ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12120305-06A
Client I.D. Number: PZ-5

Sampled: 11/29/12 11:25
Received: 12/01/12
Extracted: 12/04/12
Analyzed: 12/04/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	40 µg/L	45 Chlorobenzene	ND	40 µg/L
2 Chloromethane	ND	160 µg/L	46 Ethylbenzene	200	20 µg/L
3 Vinyl chloride	ND	40 µg/L	47 m,p-Xylene	ND	20 µg/L
4 Chloroethane	ND	40 µg/L	48 Bromoform	ND	40 µg/L
5 Bromomethane	ND	160 µg/L	49 Xylenes, Total	69	20 µg/L
6 Trichlorofluoromethane	ND	40 µg/L	50 Styrene	ND	40 µg/L
7 Acetone	ND	800 µg/L	51 o-Xylene	69	20 µg/L
8 1,1-Dichloroethene	ND	40 µg/L	52 1,1,2,2-Tetrachloroethane	ND	40 µg/L
9 Tertiary Butyl Alcohol (TBA)	97,000	2,000 µg/L	53 1,2,3-Trichloropropane	ND	160 µg/L
10 Dichloromethane	ND	160 µg/L	54 Isopropylbenzene	ND	40 µg/L
11 Freon-113	ND	40 µg/L	55 Bromobenzene	ND	40 µg/L
12 Carbon disulfide	ND	200 µg/L	56 n-Propylbenzene	ND	40 µg/L
13 trans-1,2-Dichloroethene	ND	40 µg/L	57 4-Chlorotoluene	ND	40 µg/L
14 Methyl tert-butyl ether (MTBE)	3,200	20 µg/L	58 2-Chlorotoluene	ND	40 µg/L
15 1,1-Dichloroethane	ND	40 µg/L	59 1,3,5-Trimethylbenzene	ND	40 µg/L
16 Vinyl acetate	ND	4,000 µg/L	60 tert-Butylbenzene	ND	40 µg/L
17 2-Butanone (MEK)	ND	800 µg/L	61 1,2,4-Trimethylbenzene	ND	40 µg/L
18 Di-isopropyl Ether (DIPE)	ND	40 µg/L	62 sec-Butylbenzene	ND	40 µg/L
19 cis-1,2-Dichloroethene	ND	40 µg/L	63 1,3-Dichlorobenzene	ND	40 µg/L
20 Bromochloromethane	ND	40 µg/L	64 1,4-Dichlorobenzene	ND	40 µg/L
21 Chloroform	ND	40 µg/L	65 4-Isopropyltoluene	ND	40 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	40 µg/L	66 1,2-Dichlorobenzene	ND	40 µg/L
23 2,2-Dichloropropane	ND	40 µg/L	67 n-Butylbenzene	ND	40 µg/L
24 1,2-Dichloroethane	ND	40 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	240 µg/L
25 1,1,1-Trichloroethane	ND	40 µg/L	69 1,2,4-Trichlorobenzene	ND	160 µg/L
26 1,1-Dichloropropene	ND	40 µg/L	70 Naphthalene	ND	160 µg/L
27 Carbon tetrachloride	ND	40 µg/L	71 1,2,3-Trichlorobenzene	ND	160 µg/L
28 Benzene	3,000	20 µg/L	72 Surr: 1,2-Dichloroethane-d4	107	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	40 µg/L	73 Surr: Toluene-d8	98	(70-130) %REC
30 Dibromomethane	ND	40 µg/L	74 Surr: 4-Bromofluorobenzene	93	(70-130) %REC
31 1,2-Dichloropropane	ND	40 µg/L			
32 Trichloroethene	ND	40 µg/L			
33 Bromodichloromethane	ND	40 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	200 µg/L			
35 cis-1,3-Dichloropropene	ND	40 µg/L			
36 trans-1,3-Dichloropropene	ND	40 µg/L			
37 1,1,2-Trichloroethane	ND	40 µg/L			
38 Toluene	35	20 µg/L			
39 1,3-Dichloropropane	ND	40 µg/L			
40 2-Hexanone	ND	400 µg/L			
41 Dibromochloromethane	ND	40 µg/L			
42 1,2-Dibromoethane (EDB)	ND	80 µg/L			
43 Tetrachloroethene	ND	40 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	40 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

*This analyte was analyzed separately on 12/4/12 in order to achieve lower reporting limits for the other analytes.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12120305-07A
Client I.D. Number: DUP-1

Sampled: 11/29/12 00:00
Received: 12/01/12
Extracted: 12/04/12
Analyzed: 12/04/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	40 µg/L	45 Chlorobenzene	ND	40 µg/L
2 Chloromethane	ND	160 µg/L	46 Ethylbenzene	190	20 µg/L
3 Vinyl chloride	ND	40 µg/L	47 m,p-Xylene	ND	20 µg/L
4 Chloroethane	ND	40 µg/L	48 Bromoform	ND	40 µg/L
5 Bromomethane	ND	160 µg/L	49 Xylenes, Total	66	20 µg/L
6 Trichlorofluoromethane	ND	40 µg/L	50 Styrene	ND	40 µg/L
7 Acetone	ND	800 µg/L	51 o-Xylene	66	20 µg/L
8 1,1-Dichloroethene	ND	40 µg/L	52 1,1,2,2-Tetrachloroethane	ND	40 µg/L
9 Tertiary Butyl Alcohol (TBA)	110,000	2,000 µg/L	53 1,2,3-Trichloropropane	ND	160 µg/L
10 Dichloromethane	ND	160 µg/L	54 Isopropylbenzene	ND	40 µg/L
11 Freon-113	ND	40 µg/L	55 Bromobenzene	ND	40 µg/L
12 Carbon disulfide	ND	200 µg/L	56 n-Propylbenzene	ND	40 µg/L
13 trans-1,2-Dichloroethene	ND	40 µg/L	57 4-Chlorotoluene	ND	40 µg/L
14 Methyl tert-butyl ether (MTBE)	3,100	20 µg/L	58 2-Chlorotoluene	ND	40 µg/L
15 1,1-Dichloroethane	ND	40 µg/L	59 1,3,5-Trimethylbenzene	ND	40 µg/L
16 Vinyl acetate	ND	4,000 µg/L	60 tert-Butylbenzene	ND	40 µg/L
17 2-Butanone (MEK)	ND	800 µg/L	61 1,2,4-Trimethylbenzene	ND	40 µg/L
18 Di-isopropyl Ether (DIPE)	ND	40 µg/L	62 sec-Butylbenzene	ND	40 µg/L
19 cis-1,2-Dichloroethene	ND	40 µg/L	63 1,3-Dichlorobenzene	ND	40 µg/L
20 Bromochloromethane	ND	40 µg/L	64 1,4-Dichlorobenzene	ND	40 µg/L
21 Chloroform	ND	40 µg/L	65 4-Isopropyltoluene	ND	40 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	40 µg/L	66 1,2-Dichlorobenzene	ND	40 µg/L
23 2,2-Dichloropropane	ND	40 µg/L	67 n-Butylbenzene	ND	40 µg/L
24 1,2-Dichloroethane	ND	40 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	240 µg/L
25 1,1,1-Trichloroethane	ND	40 µg/L	69 1,2,4-Trichlorobenzene	ND	160 µg/L
26 1,1-Dichloropropene	ND	40 µg/L	70 Naphthalene	ND	160 µg/L
27 Carbon tetrachloride	ND	40 µg/L	71 1,2,3-Trichlorobenzene	ND	160 µg/L
28 Benzene	2,900	20 µg/L	72 Surr: 1,2-Dichloroethane-d4	104	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	40 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	40 µg/L	74 Surr: 4-Bromofluorobenzene	93	(70-130) %REC
31 1,2-Dichloropropane	ND	40 µg/L			
32 Trichloroethene	ND	40 µg/L			
33 Bromodichloromethane	ND	40 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	200 µg/L			
35 cis-1,3-Dichloropropene	ND	40 µg/L			
36 trans-1,3-Dichloropropene	ND	40 µg/L			
37 1,1,2-Trichloroethane	ND	40 µg/L			
38 Toluene	23	20 µg/L			
39 1,3-Dichloropropane	ND	40 µg/L			
40 2-Hexanone	ND	400 µg/L			
41 Dibromochloromethane	ND	40 µg/L			
42 1,2-Dibromoethane (EDB)	ND	80 µg/L			
43 Tetrachloroethene	ND	40 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	40 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

*This analyte was analyzed separately on 12/4/12 in order to achieve lower reporting limits for the other analytes.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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[Signature]

12/10/12

Report Date

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Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12120305-08A
Client I.D. Number: EB-1

Sampled: 11/29/12 11:35
Received: 12/01/12
Extracted: 12/04/12
Analyzed: 12/04/12

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	109	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	100	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	93	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered in any way.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

JS

12/10/12

Report Date

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

VOC Sample Preservation Report

Work Order: CHH12120305

Job: KMEP DFSP Norwalk

Alpha's Sample ID	Client's Sample ID	Matrix	pH
12120305-01A	GMW-O-15	Aqueous	2
12120305-02A	GMW-O-16	Aqueous	2
12120305-03A	GMW-O-18	Aqueous	2
12120305-04A	GMW-O-19	Aqueous	2
12120305-05A	GMW-36	Aqueous	7
12120305-06A	PZ-5	Aqueous	6
12120305-07A	DUP-1	Aqueous	7
12120305-08A	EB-1	Aqueous	2

12/10/12
Report Date

Page 1 of 1



Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
10-Dec-12

QC Summary Report

Work Order:
12120305

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8015B/C Ext**

File ID: **2A11291335.D**

Batch ID: **30026**

Analysis Date: **12/04/2012 13:30**

Sample ID: **MBLK-30026**

Units : **mg/L**

Run ID: **FID_2_121204A**

Prep Date: **12/04/2012 10:15**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	ND	0.05								
Surr: Nonane	0.149		0.15		99	49	145			

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8015B/C Ext**

File ID: **2A11291336.D**

Batch ID: **30026**

Analysis Date: **12/04/2012 13:56**

Sample ID: **LCS-30026**

Units : **mg/L**

Run ID: **FID_2_121204A**

Prep Date: **12/04/2012 10:15**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.65	0.05	2.5		106	70	130			
Surr: Nonane	0.151		0.15		101	49	145			

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8015B/C Ext**

File ID: **2A11291359.D**

Batch ID: **30026**

Analysis Date: **12/04/2012 23:43**

Sample ID: **12120304-03AMS**

Units : **mg/L**

Run ID: **FID_2_121204A**

Prep Date: **12/04/2012 10:15**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.38	0.05	2.5	0	95	53	150			
Surr: Nonane	0.145		0.15		97	49	145			

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8015B/C Ext**

File ID: **2A11291360.D**

Batch ID: **30026**

Analysis Date: **12/05/2012 00:09**

Sample ID: **12120304-03AMSD**

Units : **mg/L**

Run ID: **FID_2_121204A**

Prep Date: **12/04/2012 10:15**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.49	0.05	2.5	0	99	53	150	2.38	4.4(47)	
Surr: Nonane	0.098		0.15		65	49	145			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
10-Dec-12

QC Summary Report

Work Order:
12120305

Method Blank

File ID: 12120404.D	Type: MBLK	Test Code: EPA Method SW8015B/C / SW8260B	Batch ID: MS15W1204B	Analysis Date: 12/04/2012 09:42						
Sample ID: MBLK MS15W1204B	Units : mg/L	Run ID: MSD_15_121204A	Prep Date: 12/04/2012 09:42							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	0.05								
Surr: 1,2-Dichloroethane-d4	0.0106		0.01		106	70	130			
Surr: Toluene-d8	0.00999		0.01		99.9	70	130			
Surr: 4-Bromofluorobenzene	0.0094		0.01		94	70	130			

Laboratory Control Spike

File ID: 12120403.D	Type: LCS	Test Code: EPA Method SW8015B/C / SW8260B	Batch ID: MS15W1204B	Analysis Date: 12/04/2012 09:13						
Sample ID: GLCS MS08W1204B	Units : mg/L	Run ID: MSD_15_121204A	Prep Date: 12/04/2012 09:13							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.428	0.05	0.4		107	70	130			
Surr: 1,2-Dichloroethane-d4	0.011		0.01		110	70	130			
Surr: Toluene-d8	0.00979		0.01		98	70	130			
Surr: 4-Bromofluorobenzene	0.00954		0.01		95	70	130			

Sample Matrix Spike

File ID: 12120428.D	Type: MS	Test Code: EPA Method SW8015B/C / SW8260B	Batch ID: MS15W1204B	Analysis Date: 12/04/2012 19:00						
Sample ID: 12120305-02AGS	Units : mg/L	Run ID: MSD_15_121204A	Prep Date: 12/04/2012 19:00							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.9	0.25	2	0	95	51	144			
Surr: 1,2-Dichloroethane-d4	0.0521		0.05		104	70	130			
Surr: Toluene-d8	0.0499		0.05		99.7	70	130			
Surr: 4-Bromofluorobenzene	0.0477		0.05		95	70	130			

Sample Matrix Spike Duplicate

File ID: 12120429.D	Type: MSD	Test Code: EPA Method SW8015B/C / SW8260B	Batch ID: MS15W1204B	Analysis Date: 12/04/2012 19:22						
Sample ID: 12120305-02AGSD	Units : mg/L	Run ID: MSD_15_121204A	Prep Date: 12/04/2012 19:22							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.72	0.25	2	0	86	51	144	1.898	9.8(29)	
Surr: 1,2-Dichloroethane-d4	0.0511		0.05		102	70	130			
Surr: Toluene-d8	0.0499		0.05		99.8	70	130			
Surr: 4-Bromofluorobenzene	0.048		0.05		96	70	130			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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10-Dec-12

QC Summary Report

Work Order:

12120305

n-Butylbenzene	ND	1				
1,2-Dibromo-3-chloropropane (DBCP)	ND	5				
1,2,4-Trichlorobenzene	ND	2				
Naphthalene	ND	10				
1,2,3-Trichlorobenzene	ND	2				
Xylenes, Total	ND	0.5				
Surr: 1,2-Dichloroethane-d4	10.6		10	106	70	130
Surr: Toluene-d8	9.99		10	99.9	70	130
Surr: 4-Bromofluorobenzene	9.4		10	94	70	130



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Date:
10-Dec-12

QC Summary Report

Work Order:
12120305

Laboratory Control Spike

Type: LCS

Test Code: EPA Method SW8260B

File ID: 12120402.D

Batch ID: MS15W1204A

Analysis Date: 12/04/2012 08:51

Sample ID: LCS MS08W1204A

Units : µg/L

Run ID: MSD_15_121204A

Prep Date: 12/04/2012 08:51

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	8.22	1	10		82	37	137			
Chloromethane	7.08	2	10		71	43	140			
Vinyl chloride	9.79	1	10		98	80	120			
Chloroethane	13.2	1	10		132	43	141			
Bromomethane	9.61	2	10		96	11	160			
Trichlorofluoromethane	12.2	1	10		122	40	148			
Acetone	174	10	200		87	36	171			
1,1-Dichloroethene	10.3	1	10		103	80	120			
Tertiary Butyl Alcohol (TBA)	93.6	10	100		94	44	156			
Dichloromethane	9.54	2	10		95	69	130			
Freon-113	10.6	1	10		106	70	137			
trans-1,2-Dichloroethene	10.4	1	10		104	70	130			
Methyl tert-butyl ether (MTBE)	9.32	0.5	10		93	65	140			
1,1-Dichloroethane	10.1	1	10		101	70	130			
2-Butanone (MEK)	182	10	200		91	23	182			
Di-isopropyl Ether (DIPE)	9.55	1	10		96	70	130			
cis-1,2-Dichloroethene	10.5	1	10		105	70	130			
Bromochloromethane	9.63	1	10		96	70	132			
Chloroform	10.5	1	10		105	80	120			
Ethyl Tertiary Butyl Ether (ETBE)	9.11	1	10		91	65	139			
2,2-Dichloropropane	11.2	1	10		112	68	154			
1,2-Dichloroethane	10.9	1	10		109	70	132			
1,1,1-Trichloroethane	11.8	1	10		118	70	135			
1,1-Dichloropropene	11.2	1	10		112	70	130			
Carbon tetrachloride	12.1	1	10		121	61	148			
Benzene	9.94	0.5	10		99	70	130			
Tertiary Amyl Methyl Ether (TAME)	9.53	1	10		95	68	134			
Dibromomethane	9.2	1	10		92	70	130			
1,2-Dichloropropane	8.91	1	10		89	80	120			
Trichloroethene	10.5	1	10		105	65	144			
Bromodichloromethane	10.3	1	10		103	50	157			
4-Methyl-2-pentanone (MIBK)	22.9	2.5	25		92	20	182			
cis-1,3-Dichloropropene	9.34	1	10		93	70	131			
trans-1,3-Dichloropropene	10.6	1	10		106	70	136			
1,1,2-Trichloroethane	9.29	1	10		93	70	130			
Toluene	9.66	0.5	10		97	80	120			
1,3-Dichloropropane	8.9	1	10		89	70	130			
2-Hexanone	80.8	5	100		81	20	182			
Dibromochloromethane	9.86	1	10		99	42	155			
1,2-Dibromoethane (EDB)	18.2	2	20		91	70	130			
Tetrachloroethene	10	1	10		100	70	130			
1,1,1,2-Tetrachloroethane	10.5	1	10		105	70	130			
Chlorobenzene	9.71	1	10		97	70	130			
Ethylbenzene	10.4	0.5	10		104	80	120			
m,p-Xylene	10.7	0.5	10		107	70	130			
Bromoform	9.4	1	10		94	68	143			
Styrene	9.62	1	10		96	64	153			
o-Xylene	10	0.5	10		100	70	130			
1,1,2,2-Tetrachloroethane	8.7	1	10		87	70	130			
1,2,3-Trichloropropane	19.5	2	20		97	70	130			
Isopropylbenzene	10.8	1	10		108	68	138			
Bromobenzene	9.8	1	10		98	70	130			
n-Propylbenzene	10.3	1	10		103	70	133			
4-Chlorotoluene	9.96	1	10		99.6	70	130			
2-Chlorotoluene	10.2	1	10		102	70	130			
1,3,5-Trimethylbenzene	10.8	1	10		108	70	134			
tert-Butylbenzene	10.9	1	10		109	55	147			
1,2,4-Trimethylbenzene	10.8	1	10		108	70	134			
sec-Butylbenzene	10.4	1	10		104	70	135			
1,3-Dichlorobenzene	10.2	1	10		102	70	130			
1,4-Dichlorobenzene	9.39	1	10		94	70	130			
4-Isopropyltoluene	10.8	1	10		108	70	132			
1,2-Dichlorobenzene	9.21	1	10		92	70	130			
n-Butylbenzene	9.87	1	10		99	70	134			
1,2-Dibromo-3-chloropropane (DBCP)	46.2	3	50		92	67	130			



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Date:
10-Dec-12

QC Summary Report

Work Order:
12120305

1,2,4-Trichlorobenzene	8.7	2	10	87	67	132
Naphthalene	7.97	2	10	80	38	154
1,2,3-Trichlorobenzene	9.3	2	10	93	56	137
Xylenes, Total	20.7	0.5	20	104	70	130
Surr: 1,2-Dichloroethane-d4	11.9		10	119	70	130
Surr: Toluene-d8	9.8		10	98	70	130
Surr: 4-Bromofluorobenzene	9.53		10	95	70	130



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Date:
10-Dec-12

QC Summary Report

Work Order:
12120305

Sample Matrix Spike

File ID: 12120426.D

Type: MS

Test Code: EPA Method SW8260B

Sample ID: 12120305-02AMS

Batch ID: MS15W1204A

Analysis Date: 12/04/2012 18:16

Units : µg/L

Run ID: MSD_15_121204A

Prep Date: 12/04/2012 18:16

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	59.1	2.5	50	0	118	21	138			
Chloromethane	43.9	10	50	0	88	23	144			
Vinyl chloride	60.2	2.5	50	0	120	49	136			
Chloroethane	75.1	2.5	50	0	150	21	159			
Bromomethane	40.2	10	50	0	80	10	174			
Trichlorofluoromethane	62.4	2.5	50	0	125	32	154			
Acetone	962	50	1000	0	96	10	171			
1,1-Dichloroethene	56.3	2.5	50	0	113	64	130			
Tertiary Butyl Alcohol (TBA)	570	25	500	0	114	41	157			
Dichloromethane	54.5	10	50	0	109	69	130			
Freon-113	55.2	2.5	50	0	110	55	141			
trans-1,2-Dichloroethene	57.2	2.5	50	0	114	63	130			
Methyl tert-butyl ether (MTBE)	56.4	1.3	50	0	113	47	150			
1,1-Dichloroethane	55.4	2.5	50	0	111	66	130			
2-Butanone (MEK)	1050	50	1000	0	105	23	182			
Di-isopropyl Ether (DIPE)	55.6	2.5	50	0	111	59	139			
cis-1,2-Dichloroethene	58.5	2.5	50	0	117	70	130			
Bromochloromethane	52.1	2.5	50	0	104	70	132			
Chloroform	56.5	2.5	50	0	113	70	130			
Ethyl Tertiary Butyl Ether (ETBE)	55.1	2.5	50	0	110	59	182			
2,2-Dichloropropane	54.3	2.5	50	0	109	38	154			
1,2-Dichloroethane	59.4	2.5	50	0	119	65	134			
1,1,1-Trichloroethane	60.7	2.5	50	0	121	65	136			
1,1-Dichloropropene	59.2	2.5	50	0	118	68	132			
Carbon tetrachloride	59.4	2.5	50	0	119	58	148			
Benzene	54.3	1.3	50	0	109	59	138			
Tertiary Amyl Methyl Ether (TAME)	56.3	2.5	50	0	113	63	135			
Dibromomethane	53.7	2.5	50	0	107	70	130			
1,2-Dichloropropane	50.2	2.5	50	0	100	70	131			
Trichloroethene	54.9	2.5	50	0	110	65	144			
Bromodichloromethane	55.4	2.5	50	0	111	50	157			
4-Methyl-2-pentanone (MIBK)	131	13	125	0	105	20	182			
cis-1,3-Dichloropropene	49.6	2.5	50	0	99	63	131			
trans-1,3-Dichloropropene	57.9	2.5	50	0	116	65	136			
1,1,2-Trichloroethane	55.4	2.5	50	0	111	70	131			
Toluene	52.8	1.3	50	0	106	68	130			
1,3-Dichloropropane	52.7	2.5	50	0	105	70	130			
2-Hexanone	349	25	500	0	70	20	182			
Dibromochloromethane	54.4	2.5	50	0	109	42	155			
1,2-Dibromoethane (EDB)	108	5	100	0	108	70	130			
Tetrachloroethene	52.7	2.5	50	0	105	65	130			
1,1,1,2-Tetrachloroethane	56.2	2.5	50	0	112	70	130			
Chlorobenzene	53.1	2.5	50	0	106	70	130			
Ethylbenzene	55.1	1.3	50	0	110	68	130			
m,p-Xylene	56.2	1.3	50	0.56	111	68	131			
Bromoform	51.9	2.5	50	0	104	65	143			
Styrene	52.4	2.5	50	0	105	59	153			
o-Xylene	53.3	1.3	50	0	107	70	130			
1,1,2,2-Tetrachloroethane	52.5	2.5	50	0	105	67	130			
1,2,3-Trichloropropane	110	10	100	0	110	70	130			
Isopropylbenzene	57.4	2.5	50	0	115	55	138			
Bromobenzene	54.6	2.5	50	0	109	70	130			
n-Propylbenzene	54.1	2.5	50	0	108	67	133			
4-Chlorotoluene	54.2	2.5	50	0	108	70	130			
2-Chlorotoluene	54.5	2.5	50	0	109	70	130			
1,3,5-Trimethylbenzene	57.2	2.5	50	0	114	67	134			
tert-Butylbenzene	56.6	2.5	50	0	113	55	147			
1,2,4-Trimethylbenzene	58	2.5	50	0	116	65	135			
sec-Butylbenzene	52.9	2.5	50	0	106	68	135			
1,3-Dichlorobenzene	54.9	2.5	50	0	110	70	130			
1,4-Dichlorobenzene	50.9	2.5	50	0	102	70	130			
4-Isopropyltoluene	54.7	2.5	50	0	109	68	132			
1,2-Dichlorobenzene	51	2.5	50	0	102	70	130			
n-Butylbenzene	49.2	2.5	50	0	98	62	134			
1,2-Dibromo-3-chloropropane (DBCP)	258	15	250	0	103	64	130			



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QC Summary Report

Work Order:

12120305

1,2,4-Trichlorobenzene	50.2	10	50	0	100	62	133
Naphthalene	55.5	10	50	0	111	32	166
1,2,3-Trichlorobenzene	57.3	10	50	0	115	55	138
Xylenes, Total	110	1.3	100	0.56	109	70	130
Surr: 1,2-Dichloroethane-d4	58.1		50		116	70	130
Surr: Toluene-d8	48.9		50		98	70	130
Surr: 4-Bromofluorobenzene	48.5		50		97	70	130



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
10-Dec-12

QC Summary Report

Work Order:
12120305

Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8260B

File ID: 12120427.D

Batch ID: MS15W1204A

Analysis Date: 12/04/2012 18:38

Sample ID: 12120305-02AMSD

Units: µg/L

Run ID: MSD_15_121204A

Prep Date: 12/04/2012 18:38

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	47.9	2.5	50	0	96	21	138	59.09	21.0(33)	
Chloromethane	40.6	10	50	0	81	23	144	43.87	7.8(27)	
Vinyl chloride	52.1	2.5	50	0	104	49	136	60.24	14.5(21)	
Chloroethane	61.2	2.5	50	0	122	21	159	75.11	20.4(40)	
Bromomethane	42.4	10	50	0	85	10	174	40.16	5.4(40)	
Trichlorofluoromethane	50.1	2.5	50	0	100	32	154	62.42	22.0(37)	
Acetone	822	50	1000	0	82	10	171	962.2	15.7(23)	
1,1-Dichloroethene	46	2.5	50	0	92	64	130	56.28	20.0(21)	
Tertiary Butyl Alcohol (TBA)	502	25	500	0	100	41	157	570.4	12.8(30)	
Dichloromethane	45.8	10	50	0	92	69	130	54.46	17.2(20)	
Freon-113	43	2.5	50	0	86	55	141	55.15	24.7(40)	
trans-1,2-Dichloroethene	46.9	2.5	50	0	94	63	130	57.24	19.8(20)	
Methyl tert-butyl ether (MTBE)	48.1	1.3	50	0	96	47	150	56.39	15.8(40)	
1,1-Dichloroethane	46.8	2.5	50	0	94	66	130	55.41	16.9(20)	
2-Butanone (MEK)	891	50	1000	0	89	23	182	1053	16.7(22)	
Di-isopropyl Ether (DIPE)	46.5	2.5	50	0	93	59	139	55.61	17.9(20)	
cis-1,2-Dichloroethene	48.2	2.5	50	0	96	70	130	58.5	19.2(20)	
Bromochloromethane	45.9	2.5	50	0	92	70	132	52.06	12.7(20)	
Chloroform	47.3	2.5	50	0	95	70	130	56.5	17.7(20)	
Ethyl Tertiary Butyl Ether (ETBE)	46.7	2.5	50	0	93	59	182	55.06	16.4(40)	
2,2-Dichloropropane	45.1	2.5	50	0	90	38	154	54.25	18.5(22)	
1,2-Dichloroethane	49.8	2.5	50	0	99.5	65	134	59.4	17.7(20)	
1,1,1-Trichloroethane	49.9	2.5	50	0	99.8	65	136	60.72	19.6(20)	
1,1-Dichloropropene	47.4	2.5	50	0	95	68	132	59.21	22.1(20)	R5
Carbon tetrachloride	48.7	2.5	50	0	97	58	148	59.42	19.9(20)	
Benzene	45.2	1.3	50	0	90	59	138	54.27	18.3(21)	
Tertiary Amyl Methyl Ether (TAME)	48	2.5	50	0	96	63	135	56.29	16.0(40)	
Dibromomethane	45.2	2.5	50	0	90	70	130	53.7	17.3(20)	
1,2-Dichloropropane	42.8	2.5	50	0	86	70	131	50.19	16.0(20)	
Trichloroethene	44.8	2.5	50	0	90	65	144	54.93	20.3(20)	R5
Bromodichloromethane	46.6	2.5	50	0	93	50	157	55.44	17.3(20)	
4-Methyl-2-pentanone (MIBK)	113	13	125	0	90	20	182	131.2	15.3(20)	
cis-1,3-Dichloropropene	41.9	2.5	50	0	84	63	131	49.59	16.7(20)	
trans-1,3-Dichloropropene	50.2	2.5	50	0	100	65	136	57.91	14.2(20)	
1,1,2-Trichloroethane	47.8	2.5	50	0	96	70	131	55.38	14.8(20)	
Toluene	43.5	1.3	50	0	87	68	130	52.81	19.3(20)	
1,3-Dichloropropane	44.7	2.5	50	0	89	70	130	52.67	16.4(20)	
2-Hexanone	298	25	500	0	60	20	182	349.2	15.7(20)	
Dibromochloromethane	46	2.5	50	0	92	42	155	54.4	16.7(20)	
1,2-Dibromoethane (EDB)	92.4	5	100	0	92	70	130	108	15.6(20)	
Tetrachloroethene	40.3	2.5	50	0	81	65	130	52.65	26.6(20)	R5
1,1,1,2-Tetrachloroethane	46.7	2.5	50	0	93	70	130	56.21	18.5(20)	
Chlorobenzene	43.5	2.5	50	0	87	70	130	53.08	20.0(20)	
Ethylbenzene	44.2	1.3	50	0	88	68	130	55.1	22.0(20)	R5
m,p-Xylene	45.3	1.3	50	0.56	90	68	131	56.22	21.5(20)	R5
Bromoform	44.1	2.5	50	0	88	65	143	51.86	16.2(20)	
Styrene	43.3	2.5	50	0	87	59	153	52.38	19.0(37)	
o-Xylene	43.5	1.3	50	0	87	70	130	53.33	20.3(20)	R5
1,1,2,2-Tetrachloroethane	44.9	2.5	50	0	90	67	130	52.46	15.5(20)	
1,2,3-Trichloropropane	94.5	10	100	0	95	70	130	110	15.1(20)	
Isopropylbenzene	45.5	2.5	50	0	91	55	138	57.41	23.1(20)	R5
Bromobenzene	44.8	2.5	50	0	90	70	130	54.55	19.6(20)	
n-Propylbenzene	41.8	2.5	50	0	84	67	133	54.12	25.7(30)	
4-Chlorotoluene	43.2	2.5	50	0	86	70	130	54.19	22.7(20)	R5
2-Chlorotoluene	43.6	2.5	50	0	87	70	130	54.54	22.2(20)	R5
1,3,5-Trimethylbenzene	44.8	2.5	50	0	90	67	134	57.23	24.4(21)	R5
tert-Butylbenzene	45	2.5	50	0	90	55	147	56.59	22.8(20)	R5
1,2,4-Trimethylbenzene	45.6	2.5	50	0	91	65	135	57.97	23.9(25)	
sec-Butylbenzene	40.7	2.5	50	0	81	68	135	52.93	26.1(20)	R5
1,3-Dichlorobenzene	44	2.5	50	0	88	70	130	54.93	22.2(20)	R5
1,4-Dichlorobenzene	41	2.5	50	0	82	70	130	50.91	21.5(20)	R5
4-Isopropyltoluene	42	2.5	50	0	84	68	132	54.69	26.2(20)	R5



Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:	QC Summary Report								Work Order:	
10-Dec-12									12120305	
1,2-Dichlorobenzene	41.5	2.5	50	0	83	70	130	51.02	20.6(20)	R5
n-Butylbenzene	37	2.5	50	0	74	62	134	49.19	28.4(21)	R5
1,2-Dibromo-3-chloropropane (DBCP)	224	15	250	0	90	64	130	258.5	14.1(20)	
1,2,4-Trichlorobenzene	40.7	10	50	0	81	62	133	50.15	20.7(29)	
Naphthalene	48.8	10	50	0	98	32	166	55.53	13.0(40)	
1,2,3-Trichlorobenzene	46.7	10	50	0	93	55	138	57.34	20.6(36)	
Xylenes, Total	88.8	1.3	100	0.56	88	70	130	109.6	20.9(20)	R5
Surr: 1,2-Dichloroethane-d4	57.1		50		114	70	130			
Surr: Toluene-d8	49.2		50		98	70	130			
Surr: 4-Bromofluorobenzene	48		50		96	70	130			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

R5 = MS/MSD RPD exceeded the laboratory control limit. Recovery met acceptance criteria.

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

CA

WorkOrder : CHHL12120305
Report Due By : 5:00 PM On : 11-Dec-12

Client:
 CH2M Hill
 1000 Wilshire Boulevard
 21st Floor
 Los Angeles, CA 90017

Report Attention	Phone Number	EMail Address
Daniel Jablonski	(213) 228-8271 x	daniel.jablonski@ch2m.com
Matthew Mayry	(213) 228-8271 x	matthew.mayry@ch2m.com

EDD Required : Yes

Sampled by : D. Frazier

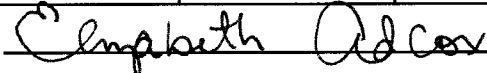
PO :
 Client's COC # : none Job : KMEP DFSP Norwalk

Cooler Temp	Samples Received	Date Printed
2 °C	01-Dec-12	03-Dec-12

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	Collection Date	No. of Bottles			Requested Tests						Sample Remarks		
				Alpha	Sub	TAT	TPHE_W	TPH/P_W	VOC_W						
CHH12120305-01A	GMW-O-15	AQ	11/29/12 09:00	6	0	6	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12120305-02A	GMW-O-16	AQ	11/29/12 09:34	6	0	6	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12120305-03A	GMW-O-18	AQ	11/29/12 10:52	6	0	6	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12120305-04A	GMW-O-19	AQ	11/29/12 10:07	6	0	6	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12120305-05A	GMW-36	AQ	11/29/12 08:22	6	0	6	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12120305-06A	PZ-5	AQ	11/29/12 11:25	6	0	6	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12120305-07A	DUP-1	AQ	11/29/12 00:00	6	0	6	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12120305-08A	EB-1	AQ	11/29/12 11:35	6	0	6	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						

Comments: Security seals intact. Frozen ice. Saturday delivery. Samples received 12/1/12 kept cold and secure until login on 12/3/12. Analysts: 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
	Elizabeth Adcox	Alpha Analytical, Inc.	12/3/12 1234

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) 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 1

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-0-15	11-29-12	0900	W	6	HCL	VOA	X	X										CHH1212030
GMW-0-16		0934					X	X										-0
GMW-0-18		1052					X	X										-0
GMW-0-19		1007					X	X										-0
GMW-36		0822					X	X										-05
PZ-5		1125					X	X										-0
DMP-1		1135					X	X										-0
EB-1	11-29-12	1135	W	4	↓	↓	X	X										-09
TB-1		0630		2	↓	↓	X	X										Voas not provided

SAMPLING COMPLETED DATE 11-29-12 TIME 1550 SAMPLING PERFORMED BY D. FRAZIER RESULTS NEEDED NO LATER THAN Standard

RELEASED BY [Signature] TIME 1550 RECEIVED BY [Signature] DATE 11-29-12 TIME 1550

RELEASED BY Nicole [Signature] TIME 1245 RECEIVED BY [Signature] DATE 11-30-12 TIME 1245

RELEASED BY [Signature] TIME 1245 RECEIVED BY Campbell Adcox DATE 12-3-12 TIME 1234

SHIPPED VIA TIME SENT COOLER #

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121226 - NT1	Client: KMEP
Sampler: NT	Start Date: 12/26/12
Well I.D.: GMW-36	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: -	Depth to Water: Pre: 34.86 Post: -
Depth to Free Product: 30.36	Thickness of Free Product (feet): 4.50
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 or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
- Extraction well is producing product -								
- detected 4.50' of SPT w/ interface probe -								
- No sample taken -								

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 #: 121226 - NT1	Client: KMEP
Sampler: NT	Start Date: 12/26/12
Well I.D.: GMW-0-15	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: -	Depth to Water: Pre: 27.41 Post: -
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 ext port
 Start Purge Time: 0858 Flow Rate: 200 mL/min Pump Depth: -

Time	Temp. (°C or °F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or μ D)	Depth to water
0901	18.9	7.02	2741	3	2.50	39.4	600	-
0904	19.0	7.03	2747	3	2.69	28.7	1200	-
0907	18.9	7.03	2749	3	2.73	27.6	1800	-
0910	18.9	7.03	2750	2	2.74	26.4	2400	-
0913	18.9	7.03	2751	2	2.76	26.1	3000	-

Did well dewater? Yes <input checked="" type="radio"/> No <input type="radio"/>	Amount actually evacuated: 3000 mL
Sampling Time: 0914	Sampling Date: 12/26/12
Sample I.D.: GMW-0-15	Laboratory: Alpha Analytical
Analyzed for: <u>TPH</u> <u>TRHP</u> <u>VOC's</u> <u>MTBE</u>	Other: <u>see r.o.c.</u>
Equipment Blank I.D.: EB-1 @ <u>0850</u> Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121226-NT1	Client: KMEP
Sampler: NT	Start Date: 12/26/12
Well I.D.: GMW-0-16	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 48.75	Depth to Water: Pre: 28.52 Post: 28.66
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: 1005 Flow Rate: 500 mL/min Pump Depth: 43'

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u>)	Depth to water
1008	20.9	7.16	1908	6	1.17	85.1	1500	28.65
1011	21.3	7.14	1910	5	1.54	81.2	3000	28.65
1014	21.5	7.14	1915	5	1.58	75.1	4500	28.66
1017	21.6	7.14	1916	4	1.61	71.8	6000	28.66
1020	21.6	7.13	1916	4	1.63	70.3	7500	28.66
1023	21.6	7.13	1917	3	1.64	69.5	9000	28.66

Did well dewater? Yes No Amount actually evacuated: 9000 mL

Sampling Time: 1024 Sampling Date: 12/26/12

Sample I.D.: GMW-0-16 Laboratory: Alpha Analytical

Analyzed for: TPHg TPHfp VOC's MTBE Other: see a.o.c.

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121226-NT1	Client: KMEP
Sampler: NT	Start Date: 12/26/12
Well I.D.: GMW-0-18	Well Diameter: 2 3 <input checked="" type="radio"/> 6 8
Total Well Depth: -	Depth to Water: Pre: 25.87 Post: -
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
 Sampling Method: Dedicated Tubing New Tubing Other *ext port*
 Start Purge Time: 1058 Flow Rate: 500 mL/min Pump Depth: -

Time	Temp. (Cor °F)	pH	Cond. (mS or <input checked="" type="radio"/> μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <input checked="" type="radio"/> mL)	Depth to water
1101	14.4	7.67	2788	82	3.10	95.5	1500	-
1104	14.7	7.61	2789	59	2.97	100.3	3000	-
1107	15.5	7.63	2793	45	2.91	103.5	4500	-
1110	15.7	7.63	2795	43	2.83	105.1	6000	-
1113	15.8	7.64	2796	41	2.81	107.2	7500	-
1116	15.8	7.64	2796	40	2.80	108.3	9000	-

Did well dewater? Yes <input checked="" type="checkbox"/> No	Amount actually evacuated: 9000 mL
Sampling Time: 1117	Sampling Date: 12/26/12
Sample I.D.: GMW-0-18	Laboratory: Alpha Analytical
Analyzed for: <input checked="" type="checkbox"/> TPH <input checked="" type="checkbox"/> TRHP <input checked="" type="checkbox"/> VOC's <input type="checkbox"/> MTBE	Other: <input checked="" type="checkbox"/> see C.O.C.
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121226-NT1	Client: KMEP
Sampler: NT	Start Date: 12/26/12
Well I.D.: GMW-0-19	Well Diameter: 2 3 4 6 8
Total Well Depth: 39.87	Depth to Water: Pre: 28.03 Post: 28.22
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
 Sampling Method: **Dedicated Tubing** New Tubing Other _____
 Start Purge Time: **0932** Flow Rate: **500 mL/min** Pump Depth: **35'**

Time	Temp. (C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0935	21.2	7.14	1975	6	2.42	106.9	1500	28.21
0938	21.6	7.13	1974	4	2.82	113.6	3000	28.21
0941	21.8	7.13	1969	3	2.73	109.0	4500	28.21
0944	21.8	7.13	1965	3	2.50	105.1	6000	28.22
0947	21.9	7.12	1964	2	2.48	103.2	7500	28.22
0950	21.9	7.12	1964	2	2.46	102.4	9000	28.22

Did well dewater? Yes No	Amount actually evacuated: 9000 mL
Sampling Time: 0951	Sampling Date: 12/26/12
Sample I.D.: GMW-0-19	Laboratory: Alpha Analytical
Analyzed for: TPH TPHfp VOO's MTBE	Other: see c.o.c.
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121226 - NT1	Client: KMEP
Sampler: NT	Start Date: 12/26/12
Well I.D.: PZ-5	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 37.95	Depth to Water: Pre: 28.30 Post: 28.53
Depth to Free Product: -	Thickness of Free Product (feet): -
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSL556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1131 Flow Rate: 500 mL/min Pump Depth: 34'

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ML</u>)	Depth to water
1134	20.7	6.95	2859	22	1.33	-101.3	1500	28.50
1137	21.6	6.95	2884	18	1.04	-149.9	3000	28.50
1140	21.8	6.96	2863	14	0.98	-163.1	4500	28.51
1143	21.9	6.97	2861	12	0.93	-170.3	6000	28.52
1146	21.9	6.97	2860	11	0.91	-172.1	7500	28.52
1149	21.8	6.98	2859	11	0.90	-173.8	9000	28.53

Did well dewater? Yes <input checked="" type="checkbox"/> <u>No</u>	Amount actually evacuated: <u>9000 mL</u>
Sampling Time: <u>1150</u>	Sampling Date: <u>12/26/12</u>
Sample I.D.: <u>PZ-5</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>TPH_g TPH_f VOC's MTBE</u>	Other: <u>see c.o.c.</u>
Equipment Blank I.D.: <u>@</u>	Duplicate I.D.: <u>DUP-1</u>

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 of

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)	CONDUCT ANALYSIS TO DETECT							ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
			AQ= Water	#	Preservation	Type													
TB-1	12/26/12	0840	W	3	HCL	VOCS		X											
EB-1		0850	W	6	HCL	VOCS	X	X											
MW-0-15		0914	W	6	HCL	VOCS	X	X											
MW-0-19		0951	W	6	HCL	VOCS	X	X											
MW-0-16		1024	W	6	HCL	VOCS	X	X											
MW-0-15		1117	W	6	HCL	VOCS	X	X											
12-5		1150	W	6	HCL	VOCS	X	X											
MW-1			W	6	HCL	VOCS	X	X											

SAMPLING COMPLETED DATE 12/26/12 TIME 1230 SAMPLING PERFORMED BY *Nana Tep* RESULTS NEEDED NO LATER THAN Standard

RELEASED BY *[Signature]* TIME 1400 RECEIVED BY *Nicole (se)* DATE 12/26/12 TIME 1400

RELEASED BY *Nicole (se)* TIME 1500 RECEIVED BY *[Signature]* DATE 12/27/12 TIME 1600

RELEASED BY *[Signature]* TIME 1500 RECEIVED BY DATE TIME

SHIPPED VIA TIME SENT COOLER #



Remediation Form 7.3-1, Well Inspection Checklist

Well Number: GMW-0-15 Inspector: NT Date: 12/26/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?		✓	
2	Is the well easily visible?	✓		
3	Is the well vault cover or protective casing clearly labeled?	✓		
4	Is a well identification tag present and legible?	✓		
5	Is there any physical damage to the well, well vault and cover, or protective casing?		✓	
6	If applicable, is the cover to the well vault properly secured?	✓		
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		✓	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	✓		
9	Is the well secured with a functioning lock?		✓	
10	Is the well fitted with a water tight well cap?		✓	
11	If applicable, is the well vault dry and free of debris?	✓		
12	What is the measured depth of the well?		✓	ext pump
13	Is the measured depth consistent with the as-built record?		✓	
List any corrective measures to be considered:				



Remediation Form 7.3-1, Well Inspection Checklist

Well Number: CMW-0-16 Inspector: NT Date: 12/26/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?		✓	
2	Is the well easily visible?	✓		
3	Is the well vault cover or protective casing clearly labeled?	✓		
4	Is a well identification tag present and legible?	✓		
5	Is there any physical damage to the well, well vault and cover, or protective casing?		✓	
6	If applicable, is the cover to the well vault properly secured?	✓	✓	2/2 tabs stripped
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		✓	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	✓		
9	Is the well secured with a functioning lock?	✓		
10	Is the well fitted with a water tight well cap?	✓		
11	If applicable, is the well vault dry and free of debris?	✓		
12	What is the measured depth of the well?			48.75
13	Is the measured depth consistent with the as-built record?	✓		
List any corrective measures to be considered: <u>N/A</u>				



Remediation Form 7.3-1, Well Inspection Checklist

Well Number: GMW-0-18 Inspector: NT Date: 12/26/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?		✓	
2	Is the well easily visible?	✓		
3	Is the well vault cover or protective casing clearly labeled?		✓	
4	Is a well identification tag present and legible?		✓	
5	Is there any physical damage to the well, well vault and cover, or protective casing?		✓	
6	If applicable, is the cover to the well vault properly secured?	✓		
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		✓	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	✓		
9	Is the well secured with a functioning lock?		✓	
10	Is the well fitted with a water tight well cap?		✓	
11	If applicable, is the well vault dry and free of debris?		✓	
12	What is the measured depth of the well?		✓	ext pump
13	Is the measured depth consistent with the as-built record?		✓	
List any corrective measures to be considered:				



Remediation Form 7.3-1, Well Inspection Checklist

Well Number: GMW-0-19 Inspector: NT Date: 12/26/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?		✓	
2	Is the well easily visible?	✓		
3	Is the well vault cover or protective casing clearly labeled?	✓		
4	Is a well identification tag present and legible?	✓		
5	Is there any physical damage to the well, well vault and cover, or protective casing?		✓	
6	If applicable, is the cover to the well vault properly secured?	✓		
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		✓	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	✓		
9	Is the well secured with a functioning lock?	✓		
10	Is the well fitted with a water tight well cap?	✓		
11	If applicable, is the well vault dry and free of debris?	✓		
12	What is the measured depth of the well?			39.87
13	Is the measured depth consistent with the as-built record?	✓		
List any corrective measures to be considered: <u>N/A</u>				



Remediation Form 7.3-1, Well Inspection Checklist

Well Number: GMW-36 Inspector: NT Date: 12/26/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?		✓	
2	Is the well easily visible?	✓		
3	Is the well vault cover or protective casing clearly labeled?	✓		
4	Is a well identification tag present and legible?	✓		
5	Is there any physical damage to the well, well vault and cover, or protective casing?		✓	
6	If applicable, is the cover to the well vault properly secured?	✓		
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		✓	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	✓		
9	Is the well secured with a functioning lock?		✓	
10	Is the well fitted with a water tight well cap?	✓	✓	
11	If applicable, is the well vault dry and free of debris?	✓		
12	What is the measured depth of the well?		✓	ext pump
13	Is the measured depth consistent with the as-built record?		✓	
List any corrective measures to be considered:				



Remediation Form 7.3-1, Well Inspection Checklist

Well Number: PZ-5 Inspector: NT Date: 12/26/12

Item	Inspection Element	Yes	No	Comments/Remarks/Actions Taken
1	Is access to the well unobstructed?		<input checked="" type="checkbox"/>	
2	Is the well easily visible?	<input checked="" type="checkbox"/>		
3	Is the well vault cover or protective casing clearly labeled?		<input checked="" type="checkbox"/>	
4	Is a well identification tag present and legible?	<input checked="" type="checkbox"/>		
5	Is there any physical damage to the well, well vault and cover, or protective casing?		<input checked="" type="checkbox"/>	
6	If applicable, is the cover to the well vault properly secured?		<input checked="" type="checkbox"/>	1/2 tab stripped
7	Is there evidence of heaving or settling of the well, vault, or protective casing?		<input checked="" type="checkbox"/>	
8	Is the well pad in good condition (not cracked, settled, or elevated)?	<input checked="" type="checkbox"/>		
9	Is the well secured with a functioning lock?	<input checked="" type="checkbox"/>		
10	Is the well fitted with a water tight well cap?	<input checked="" type="checkbox"/>		
11	If applicable, is the well vault dry and free of debris?	<input checked="" type="checkbox"/>		
12	What is the measured depth of the well?			37.95
13	Is the measured depth consistent with the as-built record?	<input checked="" type="checkbox"/>		
List any corrective measures to be considered:				



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135
Date Received : 12/28/12

Job: KMEP DFSP Norwalk

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B / SW8260B

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed	
Client ID :	EB-1					
Lab ID :	CHH12122804-02A	TPH-E (DRO)	ND	0.050 mg/L	12/28/12	12/28/12
Date Sampled	12/26/12 08:50	Surr: Nonane	115	(49-145) %REC	12/28/12	12/28/12
		TPH-P (GRO)	ND	0.050 mg/L	01/02/13	01/02/13
		Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC	01/02/13	01/02/13
		Surr: Toluene-d8	104	(70-130) %REC	01/02/13	01/02/13
		Surr: 4-Bromofluorobenzene	107	(70-130) %REC	01/02/13	01/02/13
Client ID :	GMW-O-15					
Lab ID :	CHH12122804-03A	TPH-E (DRO)	0.11	0.050 mg/L	12/28/12	12/28/12
Date Sampled	12/26/12 09:14	Surr: Nonane	104	(49-145) %REC	12/28/12	12/28/12
		TPH-P (GRO)	1.4	0.50 mg/L	01/03/13	01/03/13
		Surr: 1,2-Dichloroethane-d4	94	(70-130) %REC	01/03/13	01/03/13
		Surr: Toluene-d8	111	(70-130) %REC	01/03/13	01/03/13
		Surr: 4-Bromofluorobenzene	112	(70-130) %REC	01/03/13	01/03/13
Client ID :	GMW-O-19					
Lab ID :	CHH12122804-04A	TPH-E (DRO)	ND	0.050 mg/L	12/28/12	12/28/12
Date Sampled	12/26/12 09:51	Surr: Nonane	111	(49-145) %REC	12/28/12	12/28/12
		TPH-P (GRO)	ND	0.050 mg/L	01/02/13	01/02/13
		Surr: 1,2-Dichloroethane-d4	95	(70-130) %REC	01/02/13	01/02/13
		Surr: Toluene-d8	107	(70-130) %REC	01/02/13	01/02/13
		Surr: 4-Bromofluorobenzene	109	(70-130) %REC	01/02/13	01/02/13
Client ID :	GMW-O-16					
Lab ID :	CHH12122804-05A	TPH-E (DRO)	ND	0.050 mg/L	12/28/12	12/28/12
Date Sampled	12/26/12 10:24	Surr: Nonane	113	(49-145) %REC	12/28/12	12/28/12
		TPH-P (GRO)	ND	0.050 mg/L	01/02/13	01/02/13
		Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC	01/02/13	01/02/13
		Surr: Toluene-d8	106	(70-130) %REC	01/02/13	01/02/13
		Surr: 4-Bromofluorobenzene	105	(70-130) %REC	01/02/13	01/02/13
Client ID :	GMW-O-18					
Lab ID :	CHH12122804-06A	TPH-E (DRO)	0.24	0.050 mg/L	12/28/12	12/28/12
Date Sampled	12/26/12 11:17	Surr: Nonane	113	(49-145) %REC	12/28/12	12/28/12
		TPH-P (GRO)	0.076	0.050 mg/L	01/02/13	01/02/13
		Surr: 1,2-Dichloroethane-d4	93	(70-130) %REC	01/02/13	01/02/13
		Surr: Toluene-d8	106	(70-130) %REC	01/02/13	01/02/13
		Surr: 4-Bromofluorobenzene	107	(70-130) %REC	01/02/13	01/02/13
Client ID :	PZ-5					
Lab ID :	CHH12122804-07A	TPH-E (DRO)	0.48	0.050 mg/L	12/28/12	12/28/12
Date Sampled	12/26/12 11:50	Surr: Nonane	127	(49-145) %REC	12/28/12	12/28/12
		TPH-P (GRO)	5.2	0.50 mg/L	01/02/13	01/02/13
		Surr: 1,2-Dichloroethane-d4	87	(70-130) %REC	01/02/13	01/02/13
		Surr: Toluene-d8	111	(70-130) %REC	01/02/13	01/02/13
		Surr: 4-Bromofluorobenzene	115	(70-130) %REC	01/02/13	01/02/13



Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Client ID :	DUP-1					
Lab ID :	CHH12122804-08A	TPH-E (DRO)	0.46	0.050 mg/L	12/28/12	12/28/12
Date Sampled	12/26/12 00:00	Surr: Nonane	124	(49-145) %REC	12/28/12	12/28/12
		TPH-P (GRO)	6.0	0.50 mg/L	01/02/13	01/02/13
		Surr: 1,2-Dichloroethane-d4	93	(70-130) %REC	01/02/13	01/02/13
		Surr: Toluene-d8	105	(70-130) %REC	01/02/13	01/02/13
		Surr: 4-Bromofluorobenzene	114	(70-130) %REC	01/02/13	01/02/13

Diesel Range Organics (DRO) C13-C22

Gasoline Range Organics (GRO) C4-C13

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered in any way.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

1/8/13

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12122804-01A
Client I.D. Number: TB-1

Sampled: 12/26/12 08:40
Received: 12/28/12
Extracted: 01/02/13
Analyzed: 01/02/13

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	5.0 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	106	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	103	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl *Randy Gardner* *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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1/8/13

Report Date

Page 1 of 1



Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12122804-02A
Client I.D. Number: EB-1

Sampled: 12/26/12 08:50
Received: 12/28/12
Extracted: 01/02/13
Analyzed: 01/02/13

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	104	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	107	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl *Randy Gardner* *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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Alpha Analytical, Inc.

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ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12122804-03A
Client I.D. Number: GMW-O-15

Sampled: 12/26/12 09:14
Received: 12/28/12
Extracted: 01/02/13
Analyzed: 01/02/13

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	3.4	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	17	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	20	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	3.1	0.50 µg/L
8 1,1-Dichloroethane	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	3,900	50 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	22	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	2.8	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	4.1	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	100	2.5 µg/L	72 Surr: 1,2-Dichloroethane-d4	112	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	113	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	117	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	23	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

*This analyte was analyzed separately on 1/3/13 in order to achieve lower reporting limits for the other analytes.

Some Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12122804-04A
Client I.D. Number: GMW-O-19

Sampled: 12/26/12 09:51
Received: 12/28/12
Extracted: 01/02/13
Analyzed: 01/02/13

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	0.52	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	0.52	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	95	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	107	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	109	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12122804-05A
Client I.D. Number: GMW-O-16

Sampled: 12/26/12 10:24
Received: 12/28/12
Extracted: 01/02/13
Analyzed: 01/02/13

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	1.5	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	106	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	105	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12122804-06A
Client I.D. Number: GMW-O-18

Sampled: 12/26/12 11:17
Received: 12/28/12
Extracted: 01/02/13
Analyzed: 01/02/13

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	0.82	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	2.4	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	2.4	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	850	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	5.5	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	22	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	93	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	106	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	107	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	2.1	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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[Signature]

1/8/13

Report Date

Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12122804-07A
Client I.D. Number: PZ-5

Sampled: 12/26/12 11:50
Received: 12/28/12
Extracted: 01/02/13
Analyzed: 01/02/13

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	5.0 µg/L	45 Chlorobenzene	ND	5.0 µg/L
2 Chloromethane	ND	20 µg/L	46 Ethylbenzene	160	2.5 µg/L
3 Vinyl chloride	ND	5.0 µg/L	47 m,p-Xylene	10	2.5 µg/L
4 Chloroethane	ND	5.0 µg/L	48 Bromoform	ND	5.0 µg/L
5 Bromomethane	ND	20 µg/L	49 Xylenes, Total	55	2.5 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	5.0 µg/L
7 Acetone	ND	100 µg/L	51 o-Xylene	45	2.5 µg/L
8 1,1-Dichloroethene	ND	5.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	5.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	130,000	800 µg/L	53 1,2,3-Trichloropropane	ND	20 µg/L
10 Dichloromethane	ND	20 µg/L	54 Isopropylbenzene	ND	5.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	5.0 µg/L
12 Carbon disulfide	ND	25 µg/L	56 n-Propylbenzene	12	5.0 µg/L
13 trans-1,2-Dichloroethene	ND	5.0 µg/L	57 4-Chlorotoluene	ND	5.0 µg/L
14 Methyl tert-butyl ether (MTBE)	3,300	2.5 µg/L	58 2-Chlorotoluene	ND	5.0 µg/L
15 1,1-Dichloroethane	ND	5.0 µg/L	59 1,3,5-Trimethylbenzene	6.0	5.0 µg/L
16 Vinyl acetate	ND	500 µg/L	60 tert-Butylbenzene	ND	5.0 µg/L
17 2-Butanone (MEK)	ND	100 µg/L	61 1,2,4-Trimethylbenzene	11	5.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	5.0 µg/L	62 sec-Butylbenzene	ND	5.0 µg/L
19 cis-1,2-Dichloroethene	ND	5.0 µg/L	63 1,3-Dichlorobenzene	ND	5.0 µg/L
20 Bromochloromethane	ND	5.0 µg/L	64 1,4-Dichlorobenzene	ND	5.0 µg/L
21 Chloroform	ND	5.0 µg/L	65 4-Isopropyltoluene	ND	5.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	5.0 µg/L	66 1,2-Dichlorobenzene	ND	5.0 µg/L
23 2,2-Dichloropropane	ND	5.0 µg/L	67 n-Butylbenzene	6.4	5.0 µg/L
24 1,2-Dichloroethane	ND	5.0 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	30 µg/L
25 1,1,1-Trichloroethane	ND	5.0 µg/L	69 1,2,4-Trichlorobenzene	ND	20 µg/L
26 1,1-Dichloropropene	ND	5.0 µg/L	70 Naphthalene	ND	20 µg/L
27 Carbon tetrachloride	ND	5.0 µg/L	71 1,2,3-Trichlorobenzene	ND	20 µg/L
28 Benzene	2,600	40 µg/L	72 Surr: 1,2-Dichloroethane-d4	87	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	5.0 µg/L	73 Surr: Toluene-d8	111	(70-130) %REC
30 Dibromomethane	ND	5.0 µg/L	74 Surr: 4-Bromofluorobenzene	115	(70-130) %REC
31 1,2-Dichloropropane	ND	5.0 µg/L			
32 Trichloroethene	ND	5.0 µg/L			
33 Bromodichloromethane	ND	5.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	25 µg/L			
35 cis-1,3-Dichloropropene	ND	5.0 µg/L			
36 trans-1,3-Dichloropropene	ND	5.0 µg/L			
37 1,1,2-Trichloroethane	ND	5.0 µg/L			
38 Toluene	18	2.5 µg/L			
39 1,3-Dichloropropane	ND	5.0 µg/L			
40 2-Hexanone	ND	50 µg/L			
41 Dibromochloromethane	ND	5.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	10 µg/L			
43 Tetrachloroethene	ND	5.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	5.0 µg/L			

*This analyte was analyzed separately in order to achieve lower reporting limits for the other analytes.

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger Scholl

Randy Gardner

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[Signature]

1/8/13

Report Date

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH12122804-08A
Client I.D. Number: DUP-1

Sampled: 12/26/12 00:00
Received: 12/28/12
Extracted: 01/02/13
Analyzed: 01/02/13

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	5.0 µg/L	45 Chlorobenzene	ND	5.0 µg/L
2 Chloromethane	ND	20 µg/L	46 Ethylbenzene	180	2.5 µg/L
3 Vinyl chloride	ND	5.0 µg/L	47 m,p-Xylene	11	2.5 µg/L
4 Chloroethane	ND	5.0 µg/L	48 Bromoform	ND	5.0 µg/L
5 Bromomethane	ND	20 µg/L	49 Xylenes, Total	64	2.5 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	5.0 µg/L
7 Acetone	ND	100 µg/L	51 o-Xylene	54	2.5 µg/L
8 1,1-Dichloroethene	ND	5.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	5.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	130,000	800 µg/L	53 1,2,3-Trichloropropane	ND	20 µg/L
10 Dichloromethane	ND	20 µg/L	54 Isopropylbenzene	5.2	5.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	5.0 µg/L
12 Carbon disulfide	ND	25 µg/L	56 n-Propylbenzene	14	5.0 µg/L
13 trans-1,2-Dichloroethene	ND	5.0 µg/L	57 4-Chlorotoluene	ND	5.0 µg/L
14 Methyl tert-butyl ether (MTBE)	4,000	2.5 µg/L	58 2-Chlorotoluene	ND	5.0 µg/L
15 1,1-Dichloroethane	ND	5.0 µg/L	59 1,3,5-Trimethylbenzene	7.2	5.0 µg/L
16 Vinyl acetate	ND	500 µg/L	60 tert-Butylbenzene	ND	5.0 µg/L
17 2-Butanone (MEK)	ND	100 µg/L	61 1,2,4-Trimethylbenzene	14	5.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	5.0 µg/L	62 sec-Butylbenzene	ND	5.0 µg/L
19 cis-1,2-Dichloroethene	ND	5.0 µg/L	63 1,3-Dichlorobenzene	ND	5.0 µg/L
20 Bromochloromethane	ND	5.0 µg/L	64 1,4-Dichlorobenzene	ND	5.0 µg/L
21 Chloroform	ND	5.0 µg/L	65 4-Isopropyltoluene	ND	5.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	5.0 µg/L	66 1,2-Dichlorobenzene	ND	5.0 µg/L
23 2,2-Dichloropropane	ND	5.0 µg/L	67 n-Butylbenzene	7.4	5.0 µg/L
24 1,2-Dichloroethane	ND	5.0 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	30 µg/L
25 1,1,1-Trichloroethane	ND	5.0 µg/L	69 1,2,4-Trichlorobenzene	ND	20 µg/L
26 1,1-Dichloropropene	ND	5.0 µg/L	70 Naphthalene	ND	20 µg/L
27 Carbon tetrachloride	ND	5.0 µg/L	71 1,2,3-Trichlorobenzene	ND	20 µg/L
28 Benzene	2,900	40 µg/L	72 Surr: 1,2-Dichloroethane-d4	93	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	5.0 µg/L	73 Surr: Toluene-d8	105	(70-130) %REC
30 Dibromomethane	ND	5.0 µg/L	74 Surr: 4-Bromofluorobenzene	114	(70-130) %REC
31 1,2-Dichloropropane	ND	5.0 µg/L			
32 Trichloroethene	ND	5.0 µg/L			
33 Bromodichloromethane	ND	5.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	25 µg/L			
35 cis-1,3-Dichloropropene	ND	5.0 µg/L			
36 trans-1,3-Dichloropropene	ND	5.0 µg/L			
37 1,1,2-Trichloroethane	ND	5.0 µg/L			
38 Toluene	22	2.5 µg/L			
39 1,3-Dichloropropane	ND	5.0 µg/L			
40 2-Hexanone	ND	50 µg/L			
41 Dibromochloromethane	ND	5.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	10 µg/L			
43 Tetrachloroethene	ND	5.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	5.0 µg/L			

*This analyte was analyzed separately in order to achieve lower reporting limits for the other analytes.

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

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Report Date

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

VOC Sample Preservation Report

Work Order: CHH12122804

Job: KMEP DFSP Norwalk

Alpha's Sample ID	Client's Sample ID	Matrix	pH
12122804-01A	TB-1	Aqueous	2
12122804-02A	EB-1	Aqueous	2
12122804-03A	GMW-O-15	Aqueous	2
12122804-04A	GMW-O-19	Aqueous	2
12122804-05A	GMW-O-16	Aqueous	2
12122804-06A	GMW-O-18	Aqueous	2
12122804-07A	PZ-5	Aqueous	6
12122804-08A	DUP-1	Aqueous	6

1/8/13

Report Date

Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
04-Jan-13

QC Summary Report

Work Order:
12122804

Method Blank

File ID: 1A12271248.D

Sample ID: MBLK-30179

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	ND	0.05								
Surr: Nonane	0.16		0.15		107	49	145			

Type MBLK Test Code: EPA Method SW8015B/C Ext

Batch ID: 30179

Analysis Date: 12/28/2012 11:09

Run ID: FID_1_121228A

Prep Date: 12/28/2012 08:44

Laboratory Control Spike

File ID: 1A12271247.D

Sample ID: LCS-30179

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.22	0.05	2.5		89	70	130			
Surr: Nonane	0.165		0.15		110	49	145			

Type LCS Test Code: EPA Method SW8015B/C Ext

Batch ID: 30179

Analysis Date: 12/28/2012 10:43

Run ID: FID_1_121228A

Prep Date: 12/28/2012 08:44

Sample Matrix Spike

File ID: 1A12271249.D

Sample ID: 12122602-04AMS

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.5	0.05	2.5	0.113	95	53	150			
Surr: Nonane	0.162		0.15		108	49	145			

Type MS Test Code: EPA Method SW8015B/C Ext

Batch ID: 30179

Analysis Date: 12/28/2012 11:38

Run ID: FID_1_121228A

Prep Date: 12/28/2012 08:44

Sample Matrix Spike Duplicate

File ID: 1A12271251.D

Sample ID: 12122602-04AMSD

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.55	0.05	2.5	0.113	97	53	150	2.496	2.1(47)	
Surr: Nonane	0.161		0.15		107	49	145			

Type MSD Test Code: EPA Method SW8015B/C Ext

Batch ID: 30179

Analysis Date: 12/28/2012 12:30

Run ID: FID_1_121228A

Prep Date: 12/28/2012 08:44

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:

04-Jan-13

QC Summary Report

Work Order:

12122804

Method Blank

File ID: C:\HPCHEM\MS10\DATA\130102\13010205.D

Type **MBLK** Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS10W0102B

Analysis Date: 01/02/2013 11:04

Sample ID: **MBLK MS10W0102B**

Units: mg/L

Run ID: MSD_10_130102A

Prep Date: 01/02/2013 11:04

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	0.05								
Surr: 1,2-Dichloroethane-d4	0.00882		0.01		88	70	130			
Surr: Toluene-d8	0.0109		0.01		109	70	130			
Surr: 4-Bromofluorobenzene	0.0112		0.01		112	70	130			

Laboratory Control Spike

File ID: C:\HPCHEM\MS10\DATA\130102\13010204.D

Type **LCS** Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS10W0102B

Analysis Date: 01/02/2013 10:43

Sample ID: **GLCS MS10W0102B**

Units: mg/L

Run ID: MSD_10_130102A

Prep Date: 01/02/2013 10:43

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.38	0.05	0.4		95	70	130			
Surr: 1,2-Dichloroethane-d4	0.00858		0.01		86	70	130			
Surr: Toluene-d8	0.0112		0.01		112	70	130			
Surr: 4-Bromofluorobenzene	0.0116		0.01		116	70	130			

Sample Matrix Spike

File ID: C:\HPCHEM\MS10\DATA\130102\13010226.D

Type **MS** Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS10W0102B

Analysis Date: 01/02/2013 18:48

Sample ID: **12122804-04AGS**

Units: mg/L

Run ID: MSD_10_130102A

Prep Date: 01/02/2013 18:48

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.14	0.25	2	0	107	51	144			
Surr: 1,2-Dichloroethane-d4	0.0446		0.05		89	70	130			
Surr: Toluene-d8	0.0545		0.05		109	70	130			
Surr: 4-Bromofluorobenzene	0.0591		0.05		118	70	130			

Sample Matrix Spike Duplicate

File ID: C:\HPCHEM\MS10\DATA\130102\13010227.D

Type **MSD** Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS10W0102B

Analysis Date: 01/02/2013 19:09

Sample ID: **12122804-04AGSD**

Units: mg/L

Run ID: MSD_10_130102A

Prep Date: 01/02/2013 19:09

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.36	0.25	2	0	118	51	144	2.136	9.8(29)	
Surr: 1,2-Dichloroethane-d4	0.0462		0.05		92	70	130			
Surr: Toluene-d8	0.0539		0.05		108	70	130			
Surr: 4-Bromofluorobenzene	0.0571		0.05		114	70	130			

Comments:

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:

04-Jan-13

QC Summary Report

Work Order:

12122804

n-Butylbenzene	ND	1				
1,2-Dibromo-3-chloropropane (DBCP)	ND	5				
1,2,4-Trichlorobenzene	ND	2				
Naphthalene	ND	10				
1,2,3-Trichlorobenzene	ND	2				
Xylenes, Total	ND	0.5				
Surr: 1,2-Dichloroethane-d4	8.82		10	88	70	130
Surr: Toluene-d8	10.9		10	109	70	130
Surr: 4-Bromofluorobenzene	11.2		10	112	70	130



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Date:
04-Jan-13

QC Summary Report

Work Order:
12122804

Laboratory Control Spike

Type LCS Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\130102\13010203.D

Batch ID: MS10W0102A

Analysis Date: 01/02/2013 10:22

Sample ID: LCS MS10W0102A

Units: µg/L

Run ID: MSD_10_130102A

Prep Date: 01/02/2013 10:22

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	10.1	1	10		101	37	137			
Chloromethane	8.84	2	10		88	43	140			
Vinyl chloride	9.33	1	10		93	80	120			
Chloroethane	13.2	1	10		132	43	141			
Bromomethane	8.53	2	10		85	11	160			
Trichlorofluoromethane	9.3	1	10		93	40	148			
Acetone	165	10	200		82	36	171			
1,1-Dichloroethene	9.63	1	10		96	80	120			
Tertiary Butyl Alcohol (TBA)	120	10	100		120	44	156			
Dichloromethane	8.35	2	10		84	69	130			
Freon-113	10.5	1	10		105	70	137			
trans-1,2-Dichloroethene	9.79	1	10		98	70	130			
Methyl tert-butyl ether (MTBE)	9.84	0.5	10		98	65	140			
1,1-Dichloroethane	9.75	1	10		98	70	130			
2-Butanone (MEK)	162	10	200		81	23	182			
Di-isopropyl Ether (DIPE)	10.5	1	10		105	70	130			
cis-1,2-Dichloroethene	9.8	1	10		98	70	130			
Bromochloromethane	9.51	1	10		95	70	132			
Chloroform	10.1	1	10		101	80	120			
Ethyl Tertiary Butyl Ether (ETBE)	11.4	1	10		114	65	139			
2,2-Dichloropropane	13.2	1	10		132	68	154			
1,2-Dichloroethane	10.2	1	10		102	70	132			
1,1,1-Trichloroethane	11.8	1	10		118	70	135			
1,1-Dichloropropene	11	1	10		110	70	130			
Carbon tetrachloride	11.9	1	10		119	61	148			
Benzene	9.47	0.5	10		95	70	130			
Tertiary Amyl Methyl Ether (TAME)	11.5	1	10		115	68	134			
Dibromomethane	9.29	1	10		93	70	130			
1,2-Dichloropropane	10.6	1	10		106	80	120			
Trichloroethene	9.26	1	10		93	65	144			
Bromodichloromethane	10.9	1	10		109	50	157			
4-Methyl-2-pentanone (MIBK)	20.7	2.5	25		83	20	182			
cis-1,3-Dichloropropene	9.49	1	10		95	70	131			
trans-1,3-Dichloropropene	9.99	1	10		99.9	70	136			
1,1,2-Trichloroethane	8.79	1	10		88	70	130			
Toluene	9.34	0.5	10		93	80	120			
1,3-Dichloropropane	9.3	1	10		93	70	130			
2-Hexanone	107	5	100		107	20	182			
Dibromochloromethane	10.3	1	10		103	42	155			
1,2-Dibromoethane (EDB)	19.7	2	20		98	70	130			
Tetrachloroethene	10.4	1	10		104	70	130			
1,1,1,2-Tetrachloroethane	9.92	1	10		99	70	130			
Chlorobenzene	9.57	1	10		96	70	130			
Ethylbenzene	9.95	0.5	10		100	80	120			
m,p-Xylene	9.89	0.5	10		99	70	130			
Bromoform	9.12	1	10		91	68	143			
Styrene	9.57	1	10		96	64	153			
o-Xylene	9.67	0.5	10		97	70	130			
1,1,1,2-Tetrachloroethane	9.63	1	10		96	70	130			
1,2,3-Trichloropropane	18.6	2	20		93	70	130			
Isopropylbenzene	12.2	1	10		122	68	138			
Bromobenzene	10.2	1	10		102	70	130			
n-Propylbenzene	11.5	1	10		115	70	133			
4-Chlorotoluene	11.2	1	10		112	70	130			
2-Chlorotoluene	11	1	10		110	70	130			
1,3,5-Trimethylbenzene	11.8	1	10		118	70	134			
tert-Butylbenzene	12	1	10		120	55	147			
1,2,4-Trimethylbenzene	11.6	1	10		116	70	134			
sec-Butylbenzene	11.5	1	10		115	70	135			
1,3-Dichlorobenzene	10.9	1	10		109	70	130			
1,4-Dichlorobenzene	9.58	1	10		96	70	130			
4-Isopropyltoluene	11.7	1	10		117	70	132			
1,2-Dichlorobenzene	9.45	1	10		95	70	130			
n-Butylbenzene	13	1	10		130	70	134			
1,2-Dibromo-3-chloropropane (DBCP)	53.7	3	50		107	67	130			



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

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Date:
04-Jan-13

QC Summary Report

Work Order:
12122804

1,2,4-Trichlorobenzene	9.91	2	10	99	67	132
Naphthalene	10.3	2	10	103	38	154
1,2,3-Trichlorobenzene	9.23	2	10	92	56	137
Xylenes, Total	19.6	0.5	20	98	70	130
Surr: 1,2-Dichloroethane-d4	9.53		10	95	70	130
Surr: Toluene-d8	11.2		10	112	70	130
Surr: 4-Bromofluorobenzene	11.5		10	115	70	130



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Date:
04-Jan-13

QC Summary Report

Work Order:
12122804

Sample Matrix Spike

Type MS Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\130102\13010224.D

Batch ID: MS10W0102A

Analysis Date: 01/02/2013 18:06

Sample ID: 12122804-04AMS

Units: µg/L

Run ID: MSD_10_130102A

Prep Date: 01/02/2013 18:06

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	1.46	2.5	50	0	2.9	21	138			M2
Chloromethane	7.32	10	50	0	15	23	144			M2
Vinyl chloride	17.2	2.5	50	0	34	49	136			M2
Chloroethane	36.5	2.5	50	0	73	21	159			
Bromomethane	8.4	10	50	0	17	10	174			
Trichlorofluoromethane	41.3	2.5	50	0	83	32	154			
Acetone	961	50	1000	0	96	10	171			
1,1-Dichloroethene	43.2	2.5	50	0	86	64	130			
Tertiary Butyl Alcohol (TBA)	744	25	500	0	149	41	157			
Dichloromethane	44.9	10	50	0	90	69	130			
Freon-113	50.1	2.5	50	0	100	55	141			
trans-1,2-Dichloroethene	50.3	2.5	50	0	101	63	130			
Methyl tert-butyl ether (MTBE)	57.8	1.3	50	0	116	47	150			
1,1-Dichloroethane	53.5	2.5	50	0	107	66	130			
2-Butanone (MEK)	1020	50	1000	0	102	23	182			
Di-isopropyl Ether (DIPE)	59.5	2.5	50	0	119	59	139			
cis-1,2-Dichloroethene	53.8	2.5	50	0	108	70	130			
Bromochloromethane	52.4	2.5	50	0	105	70	132			
Chloroform	59.1	2.5	50	0	118	70	130			
Ethyl Tertiary Butyl Ether (ETBE)	64	2.5	50	0	128	59	182			
2,2-Dichloropropane	66.8	2.5	50	0	134	38	154			
1,2-Dichloroethane	62.7	2.5	50	0	125	65	134			
1,1,1-Trichloroethane	66.7	2.5	50	0	133	65	136			
1,1-Dichloropropene	60.1	2.5	50	0	120	68	132			
Carbon tetrachloride	67.3	2.5	50	0	135	58	148			
Benzene	52	1.3	50	0	104	59	138			
Tertiary Amyl Methyl Ether (TAME)	65	2.5	50	0	130	63	135			
Dibromomethane	57.6	2.5	50	0	115	70	130			
1,2-Dichloropropane	61.2	2.5	50	0	122	70	131			
Trichloroethene	49.6	2.5	50	0	99	65	144			
Bromodichloromethane	65.2	2.5	50	0	130	50	157			
4-Methyl-2-pentanone (MIBK)	133	13	125	0	107	20	182			
cis-1,3-Dichloropropene	49.3	2.5	50	0	99	63	131			
trans-1,3-Dichloropropene	62	2.5	50	0	124	65	136			
1,1,2-Trichloroethane	51.9	2.5	50	0	104	70	131			
Toluene	51.3	1.3	50	0	103	68	130			
1,3-Dichloropropane	57.4	2.5	50	0	115	70	130			
2-Hexanone	427	25	500	0	85	20	182			
Dibromochloromethane	62.5	2.5	50	0	125	42	155			
1,2-Dibromoethane (EDB)	118	5	100	0	118	70	130			
Tetrachloroethene	54	2.5	50	0	108	65	130			
1,1,1,2-Tetrachloroethane	57.7	2.5	50	0	115	70	130			
Chlorobenzene	53.6	2.5	50	0	107	70	130			
Ethylbenzene	53.7	1.3	50	0	107	68	130			
m,p-Xylene	54.5	1.3	50	0.52	108	68	131			
Bromoform	54.7	2.5	50	0	109	65	143			
Styrene	53.5	2.5	50	0	107	59	153			
o-Xylene	53.4	1.3	50	0	107	70	130			
1,1,2,2-Tetrachloroethane	60.2	2.5	50	0	120	67	130			
1,2,3-Trichloropropane	116	10	100	0	116	70	130			
Isopropylbenzene	69	2.5	50	0	138	55	138			
Bromobenzene	57.5	2.5	50	0	115	70	130			
n-Propylbenzene	63.6	2.5	50	0	127	67	133			
4-Chlorotoluene	64.5	2.5	50	0	129	70	130			
2-Chlorotoluene	62.7	2.5	50	0	125	70	130			
1,3,5-Trimethylbenzene	67	2.5	50	0	134	67	134			
tert-Butylbenzene	67.9	2.5	50	0	136	55	147			
1,2,4-Trimethylbenzene	66.9	2.5	50	0	134	65	135			
sec-Butylbenzene	62.3	2.5	50	0	125	68	135			
1,3-Dichlorobenzene	63.5	2.5	50	0	127	70	130			
1,4-Dichlorobenzene	55.7	2.5	50	0	111	70	130			
4-Isopropyltoluene	65.6	2.5	50	0	131	68	132			
1,2-Dichlorobenzene	56.3	2.5	50	0	113	70	130			
n-Butylbenzene	72.1	2.5	50	0	144	62	134			



Alpha Analytical, Inc.

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Date:
04-Jan-13

QC Summary Report

Work Order:
12122804

1,2-Dibromo-3-chloropropane (DBCP)	312	15	250	0	125	64	130
1,2,4-Trichlorobenzene	58.4	10	50	0	117	62	133
Naphthalene	57.3	10	50	0	115	32	166
1,2,3-Trichlorobenzene	54.9	10	50	0	110	55	138
Xylenes, Total	108	1.3	100	0.52	107	70	130
Surr: 1,2-Dichloroethane-d4	55.1		50		110	70	130
Surr: Toluene-d8	52.6		50		105	70	130
Surr: 4-Bromofluorobenzene	58.9		50		118	70	130



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Date:
04-Jan-13

QC Summary Report

Work Order:
12122804

Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\130102\13010225.D

Batch ID: MS10W0102A

Analysis Date: 01/02/2013 18:27

Sample ID: 12122804-04AMSD

Units: µg/L

Run ID: MSD_10_130102A

Prep Date: 01/02/2013 18:27

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	1.64	2.5	50	0	3.3	21	138	1.46	11.6(33)	M2
Chloromethane	7.71	10	50	0	15	23	144	7.32	5.2(27)	M2
Vinyl chloride	17.7	2.5	50	0	35	49	136	17.18	2.9(21)	M2
Chloroethane	38.5	2.5	50	0	77	21	159	36.53	5.2(40)	
Bromomethane	12.6	10	50	0	25	10	174	8.4	39.7(40)	
Trichlorofluoromethane	42.2	2.5	50	0	84	32	154	41.29	2.2(37)	
Acetone	917	50	1000	0	92	10	171	961.4	4.7(23)	
1,1-Dichloroethene	45	2.5	50	0	90	64	130	43.22	4.0(21)	
Tertiary Butyl Alcohol (TBA)	657	25	500	0	131	41	157	744.4	12.5(30)	
Dichloromethane	46.4	10	50	0	93	69	130	44.89	3.2(20)	
Freon-113	52.7	2.5	50	0	105	55	141	50.07	5.1(40)	
trans-1,2-Dichloroethene	52.3	2.5	50	0	105	63	130	50.29	3.9(20)	
Methyl tert-butyl ether (MTBE)	57.3	1.3	50	0	115	47	150	57.81	0.9(40)	
1,1-Dichloroethane	54.5	2.5	50	0	109	66	130	53.45	1.9(20)	
2-Butanone (MEK)	944	50	1000	0	94	23	182	1023	8.0(22)	
Di-isopropyl Ether (DIPE)	60.1	2.5	50	0	120	59	139	59.49	1.0(20)	
cis-1,2-Dichloroethene	55.1	2.5	50	0	110	70	130	53.81	2.3(20)	
Bromochloromethane	54.1	2.5	50	0	108	70	132	52.41	3.2(20)	
Chloroform	60.1	2.5	50	0	120	70	130	59.08	1.7(20)	
Ethyl Tertiary Butyl Ether (ETBE)	63.7	2.5	50	0	127	59	182	63.97	0.4(40)	
2,2-Dichloropropane	67.8	2.5	50	0	136	38	154	66.78	1.5(22)	
1,2-Dichloroethane	63	2.5	50	0	126	65	134	62.65	0.6(20)	
1,1,1-Trichloroethane	68	2.5	50	0	136	65	136	66.72	1.8(20)	
1,1-Dichloropropene	61.7	2.5	50	0	123	68	132	60.07	2.7(20)	
Carbon tetrachloride	75.4	2.5	50	0	151	58	148	67.27	11.4(20)	M1
Benzene	53.4	1.3	50	0	107	59	138	52.04	2.6(21)	
Tertiary Amyl Methyl Ether (TAME)	64.9	2.5	50	0	130	63	135	64.96	0.0(40)	
Dibromomethane	57	2.5	50	0	114	70	130	57.59	1.0(20)	
1,2-Dichloropropane	62.7	2.5	50	0	125	70	131	61.15	2.5(20)	
Trichloroethene	51.2	2.5	50	0	102	65	144	49.63	3.1(20)	
Bromodichloromethane	65.3	2.5	50	0	131	50	157	65.24	0.0(20)	
4-Methyl-2-pentanone (MIBK)	134	13	125	0	107	20	182	133.4	0.3(20)	
cis-1,3-Dichloropropene	49.5	2.5	50	0	99	63	131	49.32	0.3(20)	
trans-1,3-Dichloropropene	60.6	2.5	50	0	121	65	136	61.96	2.3(20)	
1,1,2-Trichloroethane	53.5	2.5	50	0	107	70	131	51.88	3.1(20)	
Toluene	53	1.3	50	0	106	68	130	51.26	3.3(20)	
1,3-Dichloropropane	57.5	2.5	50	0	115	70	130	57.42	0.2(20)	
2-Hexanone	420	25	500	0	84	20	182	426.6	1.7(20)	
Dibromochloromethane	62	2.5	50	0	124	42	155	62.51	0.8(20)	
1,2-Dibromoethane (EDB)	116	5	100	0	116	70	130	117.6	1.2(20)	
Tetrachloroethene	56.6	2.5	50	0	113	65	130	53.97	4.8(20)	
1,1,1,2-Tetrachloroethane	58.7	2.5	50	0	117	70	130	57.66	1.7(20)	
Chlorobenzene	55.6	2.5	50	0	111	70	130	53.56	3.7(20)	
Ethylbenzene	56.5	1.3	50	0	113	68	130	53.74	5.0(20)	
m,p-Xylene	57	1.3	50	0.52	113	68	131	54.45	4.5(20)	
Bromoform	56.2	2.5	50	0	112	65	143	54.69	2.7(20)	
Styrene	55.7	2.5	50	0	111	59	153	53.5	3.9(37)	
o-Xylene	56.8	1.3	50	0	114	70	130	53.44	6.2(20)	
1,1,2,2-Tetrachloroethane	60.9	2.5	50	0	122	67	130	60.21	1.1(20)	
1,2,3-Trichloropropane	120	10	100	0	120	70	130	116.4	3.2(20)	
Isopropylbenzene	72.9	2.5	50	0	146	55	138	68.97	5.5(20)	M1
Bromobenzene	61.8	2.5	50	0	124	70	130	57.46	7.3(20)	
n-Propylbenzene	66.9	2.5	50	0	134	67	133	63.59	5.1(30)	M1
4-Chlorotoluene	68.6	2.5	50	0	137	70	130	64.52	6.1(20)	M1
2-Chlorotoluene	66	2.5	50	0	132	70	130	62.65	5.2(20)	M1
1,3,5-Trimethylbenzene	70.7	2.5	50	0	141	67	134	67.03	5.3(21)	M1
tert-Butylbenzene	70.5	2.5	50	0	141	55	147	67.85	3.8(20)	
1,2,4-Trimethylbenzene	70.2	2.5	50	0	140	65	135	66.85	4.8(25)	M1
sec-Butylbenzene	66.2	2.5	50	0	132	68	135	62.31	6.1(20)	
1,3-Dichlorobenzene	67	2.5	50	0	134	70	130	63.52	5.4(20)	M1
1,4-Dichlorobenzene	58.5	2.5	50	0	117	70	130	55.72	4.9(20)	
4-Isopropyltoluene	69.8	2.5	50	0	140	68	132	65.56	6.2(20)	M1
1,2-Dichlorobenzene	59.5	2.5	50	0	119	70	130	56.28	5.6(20)	



Alpha Analytical, Inc.

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Date:	QC Summary Report								Work Order:	
04-Jan-13									12122804	
n-Butylbenzene	77.1	2.5	50	0	154	62	134	72.08	6.7(21)	M1
1,2-Dibromo-3-chloropropane (DBCP)	323	15	250	0	129	64	130	312.2	3.6(20)	
1,2,4-Trichlorobenzene	66.2	10	50	0	132	62	133	58.42	12.5(29)	
Naphthalene	65.4	10	50	0	131	32	166	57.25	13.3(40)	
1,2,3-Trichlorobenzene	61.9	10	50	0	124	55	138	54.9	11.9(36)	
Xylenes, Total	114	1.3	100	0.52	113	70	130	107.9	5.3(20)	
Surr: 1,2-Dichloroethane-d4	52.3		50		105	70	130			
Surr: Toluene-d8	53.9		50		108	70	130			
Surr: 4-Bromofluorobenzene	59.1		50		118	70	130			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M1 = Matrix spike recovery was high, the method control sample recovery was acceptable.

M2 = Matrix spike recovery was low, the method control sample recovery was acceptable.

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

CA

WorkOrder : CHHL12122804
Report Due By : 5:00 PM On : 09-Jan-13

Client:
 CH2M Hill
 1000 Wilshire Boulevard
 21st Floor
 Los Angeles, CA 90017

Report Attention	Phone Number	E-Mail Address
Daniel Jablonski	(213) 228-8271 x	daniel.jablonski@ch2m.com
Matthew Mayry	(213) 228-8271 x	matthew.mayry@ch2m.com

EDD Required : Yes

Sampled by : Nana Tep

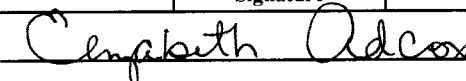
PO :
 Client's COC # : none Job : KMEP DFSP Norwalk

Cooler Temp	Samples Received	Date Printed
0 °C	28-Dec-12	28-Dec-12

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	Collection Date	No. of Bottles			Requested Tests						Sample Remarks		
				Alpha	Sub	TAT	TPHE_W	TPHP_W	VOC_W						
CHH12122804-01A	TB-1	AQ	12/26/12 08:40	3	0	7			TPHE(0.05) +Vinyl acetate						Client provided trip blanks.
CHH12122804-02A	EB-1	AQ	12/26/12 08:50	6	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12122804-03A	GMW-O-15	AQ	12/26/12 09:14	6	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12122804-04A	GMW-O-19	AQ	12/26/12 09:51	6	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12122804-05A	GMW-O-16	AQ	12/26/12 10:24	6	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12122804-06A	GMW-O-18	AQ	12/26/12 11:17	6	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12122804-07A	PZ-5	AQ	12/26/12 11:50	6	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						
CHH12122804-08A	DUP-1	AQ	12/26/12 00:00	6	0	7	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate	TPHE(0.05) +Vinyl acetate						

Comments: Security seals intact. Frozen ice. Analysts: 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
	Elizabeth Adcox	Alpha Analytical, Inc.	12-28-12 11:30

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

Matrix Type : AQ(Aqueous) AR(Air) SQ(Soil) WS(Waste) DW(Drinking Water) OT(Other) 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 of

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

TPHg, TPHd (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)																					

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	12/26/12	0840	W	3	FCL	VO22		X																CHH122804
EB-1		0850	W	6	FCL	VO25	X	X																-01
GMW-0-15		0914	W	6	FCL	VO29	X	X																-02
GMW-0-19		0951	W	6	FCL	VO19	X	X																-03
GMW-0-16		1024	W	6	FCL	VO25	X	X																-04
GMW-0-18		1117	W	6	FCL	VO25	X	X																-05
PZ-5		1150	W	6	FCL	VO25	X	X																-06
DUP-1			W	6	FCL	VO25	X	X																-07
																								-08

SAMPLING COMPLETED DATE 12/26/12 TIME 1230 SAMPLING PERFORMED BY **Nana Tap** RESULTS NEEDED NO LATER THAN **Standard**

RELEASED BY	TIME 1400	RECEIVED BY Nicole (sc)	DATE 12/26/12	TIME 1400
RELEASED BY Nicole (sc)	TIME 1500	RECEIVED BY	DATE 12/29/12	TIME 1500
RELEASED BY	TIME 1500	RECEIVED BY Elizabeth Adcox	DATE 12-28-12	TIME 11:30

SHIPPED VIA TIME SENT COOLER #