



DEFENSE LOGISTICS AGENCY
INSTALLATION SUPPORT FOR ENERGY
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August 15, 2017

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

Dear Mr. Cho:

Enclosed is one electronic copy of the Remediation Status Report, Second Quarter 2017, for Defense Fuel Support Point Norwalk (SCP NO. 0286A, SITE ID NO. 16638) located at 15306 Norwalk Boulevard, Norwalk, California. This report presents remedial system operational data and mass removal calculations for the period of April 1 through June 30, 2017.

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

Sincerely,

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

Digitally signed by
POTTER, WILLIAM, Y. 1394566272
Date: 2017.08.10 05:52:35 -04'00'

William Y. Potter
Chief, Restoration Branch

Enclosure
As stated

cc:
Mike Wood, Senior Engineer, The Source Group, Inc.

REMEDIATION STATUS REPORT - SECOND QUARTER 2017
DEFENSE FUEL SUPPORT POINT NORWALK
15306 Norwalk Boulevard
Norwalk, California

091-NDLA-0018

Prepared For:

Defense Logistics Agency Installation Support for Energy
8725 John J. Kingman Drive
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For Submittal To:

Paul Cho, P.G. Engineering Geologist
California Regional Water Quality Control Board, Site Cleanup Unit III
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Prepared By:



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August 15, 2017

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Michael Wood, P.E.
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Neil F. Irish, P.G. 5484
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LIST OF ACRONYMS

DLA	Defense Logistics Agency Installation Support for Energy
SGI	The Source Group, Inc.
DFSP	Defense Fuel Support Point
LARWQCB	California Regional Water Quality Control Board, Los Angeles Region
JP-5	Jet Propellant Number 5
BTEX	Benzene, Toluene, Ethylbenzene, and Total Xylenes
MTBE	Methyl tertiary-Butyl Ether
TBA	Tertiary-Butyl alcohol
SFPP	Santa Fe Pacific Pipelines Partners, L.P.
SVE	Soil Vapor Extraction
GWE	Groundwater Extraction
LNAPL	Light Non-Aqueous Phase Liquid
VES	Vapor Extraction System
GWETS	Groundwater Extraction and Treatment System
GAC	Granular Activated Carbon
VOCs	Volatile Organic Compounds
SCAQMD	South Coast Air Quality Management District
NPDES	National Pollutant Discharge Elimination System
OM&M	Operations, Maintenance, and Monitoring
ELAP	Environmental Laboratory Accreditation Program
TPH	Total Petroleum Hydrocarbons
EPA	United States Environmental Protection Agency
TPHg	Total Petroleum Hydrocarbons Quantified as Gasoline
TPHd	Total Petroleum Hydrocarbons Quantified as Diesel
SM	Standard Method
MBAS	Methylene Blue Active Substances
BOD	Biological Oxygen Demand
DTP	Depth to Product
DTW	Depth to Groundwater
TOC	Top of Casing
gpm	Gallons per Minute
OVA	Organic Vapor Analyzer

1.0 INTRODUCTION

On behalf of our client, Defense Logistics Agency Installation Support for Energy (DLA), The Source Group, Inc. (SGI) presents this report to summarize remediation system operations during this reporting period (Second Quarter 2017 - April 1, 2017 through June 30, 2017) for the Defense Fuel Support Point (DFSP) Norwalk facility, located at 15306 Norwalk Boulevard, Norwalk, California (Site, Figures 1 and 2).

This report is submitted pursuant to a request from the California Regional Water Quality Control Board, Los Angeles Region (LARWQCB) in a letter dated May 3, 2013.

1.1 Contaminants of Concern

Soil and groundwater at the areas of concern are impacted with hydrocarbons consisting primarily of jet propellant number 5 (JP-5); diesel; benzene, toluene, ethylbenzene, and total xylenes (collectively, BTEX), methyl tertiary-butyl ether (MTBE), and tertiary-butyl alcohol (TBA). MTBE and TBA are interpreted to have resulted from Santa Fe Pacific Pipelines Partners, L.P. (SFPP) operations, and remediation of these impacts is being addressed by SFPP. Various remediation technologies have been implemented at the Site to treat the hydrocarbon impacts in soil and groundwater. The purposes of these technologies are to reduce hydrocarbon concentrations to cleanup goals, prevent off-site migration, contain contaminant mass, and ultimately achieve Site closure within a reasonable timeframe.

The impacted areas consist of the north-central former tank farm, the northeastern property boundary, off-site Holifield Park area, the northwest corner of the Site, and the former water tank and truck fueling areas.

1.2 Remediation Technologies

Remediation technologies utilized at the Site include soil vapor extraction (SVE), groundwater extraction (GWE), biosparging, and light non-aqueous phase liquid (LNAPL) removal via manual bailing, vacuum truck, passive skimming, active pumping using a portable skimming pump and absorbent socks. The aboveground treatment of contaminated vadose zone soils excavated at the Site was also conducted from April 2015 until March 2017 (final soil closure report pending), and an automated product recovery system was most recently brought online (startup occurred on August 8, 2016) following the completion of installation and permitting work during July 2016. A summary of Site remediation wells, including well identification, well construction information, well function, and operational status, is presented in Table 1. The soil and groundwater remediation system layout (well and piping locations) is presented in Figure 2.

1.2.1 Soil Vapor Extraction System

The SVE well network for hydrocarbon extraction from vadose zone subsurface impacts historically includes wells installed in the following areas as illustrated on Figure 2: former above ground storage

tank (AST) basin 80001 (VEW-23), former AST basins 80006 and 80007 (VEW-22, HW-1 and HW-3), former AST basin 80008 (HW-5, and HW-7), former AST basin 55004 (VEW-28, VEW-29, and VEW-30), eastern boundary area (VEW-32, VEW-33, VEW-34, VEW-35, VEW-36, and VEW-37), former water tank area (VEW-31, VEW-38, VEW-39 and VEW-40), and former truck fueling area (VW-07, VW-09, VW-10, VW-11, VW-12, VW-13, VW-14, VW-15, and VW-16).

The soil vapor extraction system (VES) utilizes a blower to remove soil vapors from the subsurface. The extracted vapors are then conveyed through a knockout tank that separates entrained moisture from the soil vapors. Accumulated moisture in the knockout tank is treated by the groundwater extraction and treatment system (GWETS), as described in the following section.

Following the knockout tank, the soil vapors are treated through four granular activated carbon (GAC) vessels where volatile organic compounds (VOCs) are adsorbed onto the GAC within the vessels. The primary and secondary GAC vessels, each 5,000 pounds, are installed in series with each other, and are followed by a pair of tertiary vessels, each 2,000 pounds, installed in parallel. Operation of the VES is conducted in accordance with South Coast Air Quality Management District (SCAQMD) Permit to Construct A/N 568793, formerly Permit to Operate G12863, A/N 518989. The current Permit to Construct was issued on March 6, 2015 to additionally allow for aboveground soil treatment activities at the site which were completed during the prior reporting period (see Section 1.2.5 for further details). Active SVE wells are identified in Section 3.1 and Tables 3a through 3c.

1.2.2 Groundwater Extraction and Treatment System

The GWE well network for hydrocarbon extraction from dissolved-phase subsurface impacts historically includes wells installed in the northwestern area (GW-2 and GW-13), central tank farm area (GW-14), and eastern boundary area (GW-15, GW-16, and GMW-58). The GWETS utilizes electric pumps in each of the GWE wells to extract groundwater into a shared surge tank. Groundwater is then pumped from the surge tank through three particulate removal bag filter vessels in series (BF1, BF2, and BF3), two MYCELX vessels in series (MX-7 and MX-21) for the removal of any potential residual free product and/or oils/grease, three GAC vessels in series (2,000 pound GAC-1, 2,000 pound GAC-2, and 1,500 pound GAC-3), and a minimum of two ion exchange vessels in series for copper and arsenic treatment prior to being discharged to the storm drain.

Operation of the GWETS is conducted in accordance with National Pollutant Discharge Elimination System (NPDES) permit CAG994004, CI No. 7585 and SCAQMD Permit to Operate G6962, A/N 501180. Active GWE wells are identified in Section 3.2 and Tables 2a through 2c.

1.2.3 Biosparge System

The biosparge wells for hydrocarbon removal from dissolved-phase subsurface impacts are located in areas throughout the former tank farm and eastern boundary of the Site. The biosparge system is currently off-line due to soil cleanup activities that were recently completed (final soil closure report pending). Per SGI's June 30, 2017 *Remediation Well Installation Update Report*, the resumption of biosparge system operations on an expanded basis is anticipated to commence during the next reporting period.

1.2.4 LNAPL Removal

LNAPL wells are gauged periodically and product removal is conducted based on the measured LNAPL thickness in each target well. LNAPL removal wells are identified in Sections 3.3 and 3.4, and Tables 8a through 8m.

1.2.5 Aboveground Soil Treatment

Per SGI's *Remediation Status Report – First Quarter 2015*, dated May 1, 2015, the excavation of impacted vadose zone soils at the Site began during January 2015 with soil biopiles initially connected to the VES and brought online April 24, 2015 following the completion of aboveground treatment cell construction activities. Treatment was achieved via the construction of soil biopiles that were connected to the SVE system for SCAQMD permit compliance purposes. Biopile OM&M continued until March 20, 2017 after a final phase of limited additional cross-trenching and excavation work with all of the remaining treatment cells being subsequently disconnected.

From January 2015 through March 2017, a total estimated volume of 67,574 cubic yards of petroleum hydrocarbon contaminated soil was excavated at the Site to depths up to 35 feet below grade surface. The goal of this remediation was to cleanup source area soils that contributed to the degradation of groundwater, and ready the real property of the Site for eventual conveyance. Details associated with the OM&M of the biopiles are provided in prior remediation status reports. Further details regarding treatment cell construction and excavated soil cleanup activities will be provided in SGI's forthcoming *Shallow Soil Closure Report*.

2.0 OPERATIONS, MAINTENANCE AND MONITORING

Operations, Maintenance, and Monitoring (OM&M) of the remediation systems included the following tasks:

- Performed weekly maintenance and monitoring of the VES and GWETS during operation;
- Collected and analyzed VES influent and effluent vapor samples;
- Collected and analyzed GWETS influent and effluent groundwater samples;
- Performed weekly LNAPL removal from applicable wells via bailing, skimming and/or absorbent socks; and
- Performed weekly gauging of wells connected to the product recovery system to monitor for thicknesses sufficient to resume pumping, and continued extraction efforts from the single well that is still online (i.e., TF-16) along with adjusting the associated pump cycle durations and frequencies to optimize LNAPL removal.

Remediation system inspections were performed on a minimum weekly basis during operation. For these inspections, vapor flow rate, vacuum, volumes of extracted groundwater and product, hours of operation, and other system parameters were recorded during system operation.

2.1 Soil Vapor Extraction System

The VES was off-line from the beginning of the reporting period until April 4, 2017 pending the completion of routine maintenance activities. System operations otherwise occurred throughout the remainder of the reporting period, except from April 12-14, 2017 and May 8-10, 2017 to conduct carbon change out work, as well as for a few hours on June 12, 2017 for maintenance. The VES was manually shutdown the last day of the current reporting period (i.e., June 30, 2017) pending the completion of carbon change out work during early July 2017. System OM&M details and performance results for the reporting period are summarized in Tables 3a, 3b and 3c.

Compliance and/or performance soil vapor samples from the VES were collected in Tedlar bags during the reporting period on April 17, May 3, and June 5 and 27, 2017. The additional late June 2017 sample was collected following the completion of additional SVE well installation and system tie in activities to provide for analytical baseline performance data of the expanded VES. The vapor samples were delivered to American Analytics, Inc. of Chatsworth, California (American) for analysis. American is a laboratory certified by the California Department of Public Health Environmental Laboratory Accreditation Program (ELAP).

The vapor samples were analyzed for the following:

- Total petroleum hydrocarbons (TPH) quantified as hexane using United States Environmental Protection Agency (EPA) Method 8015;
- BTEX and MTBE using EPA Method 8260B; and

- TPH quantified as gasoline (TPHg) using EPA Method 8015.

A historical summary of influent vapor analytical sample results is provided in Table 4. The laboratory analytical reports and chain-of-custody documents for these samples are included in Appendix A.

2.2 Groundwater Extraction and Treatment System

The GWETS also operated throughout the majority of the reporting period except from mid to late April 2017 to conduct routine groundwater monitoring and sampling activities. The system was also briefly off-line earlier during April and in mid-May 2017 to conduct media change out work, as well as during early June 2017 due to an automatic shutdown caused by a power outage. System OM&M details and performance results for the reporting period are summarized in Tables 2a, 2b and 2c.

Performance and compliance water samples from the GWETS were collected during the reporting period on April 5, May 3, and June 5, 2017. The water samples were delivered to ELAP certified American for analysis.

The water samples were analyzed for the following:

- TPHg and TPH quantified as diesel (TPHd) using EPA Method 8015M;
- VOCs using EPA Method 8260B;
- Metals (arsenic and copper) using EPA Method 6020;
- Oil and grease using Standard Method (SM) 5520 B;
- Turbidity using SM 2130 B;
- Sulfides using SM 4500 S2-D;
- Total dissolved solids using SM 2540 C;
- Total suspended solids using SM 2540 D;
- Settleable Solids using SM 2540 F;
- Methylene blue active substances (MBAS) using SM 5540 C;
- Phenols using EPA Method 420.1; and
- Biological oxygen demand (BOD) using SM 5210 B.

The GWETS effluent groundwater sampling results were provided under separate cover in SGI's *Groundwater Discharge Monitoring Report*, dated July 14, 2017. A historical summary of influent water analytical sample results is provided in Table 5. The laboratory analytical reports and chain-of-custody documents for these samples are included in Appendix A.

2.3 LNAPL Removal Via Bailing, Skimming and Absorbent Socks

Depth to product (DTP) and depth to groundwater (DTW) was measured to the nearest 0.01 foot from the top of the well casing (TOC) using an interface probe in select monitoring wells. LNAPL

was removed from select wells via manually bailing, active pumping using a portable product skimmer and by utilizing absorbent socks installed in select wells. Mass and volume removal estimates using these techniques are summarized in Tables 8a through 8f along with associated LNAPL gauging results.

2.4 Product Recovery System

The permitting and installation of the product recovery system was completed on August 8, 2016 at which time full-scale operations commenced. Product recovery system OM&M continued through the current reporting period. Details associated with the OM&M of the automated system are provided in Tables 8g through 8m.

2.5 Biosparge System

Recommissioning of the former biosparge system is underway with additional well installation activities being recently completed per SGI's March 14, 2017 *Well Replacement Report and Work Plan*, and June 30, 2017 *Remediation Well Installation Update Report*. The biosparge wells associated with the original system are located in areas throughout the former tank farm and eastern boundary of the Site. As summarized on Table 1, several of these former wells were abandoned to allow for the excavation of impacted soil from the area at or surrounding each respective well per (see Section 1.2.5) or were confirmed to be missing/destroyed during field reconnaissance work.

3.0 SUMMARY OF REMEDIATION PROGRESS

The following sections describe remedial progress at the Site.

3.1 Soil Vapor Extraction System

During the reporting period, the VES extracted soil vapors from all four horizontal wells that span through the entire former tank farm area (HW-1, HW-3, HW-5 and HW-7), and recently installed vertical wells VEW-38, VEW-39 and VEW-40 (located in the former truck fueling area; see Figure 2) which were tied into the system near the end of the current reporting period. Well valves were set to optimize system performance in accordance with recent field readings and/or lab data. Extraction from other existing vapor extraction wells was not conducted based on field and/or laboratory data presented herein.

The total mass of VOCs removed via SVE during this period (Second Quarter 2017) was approximately 2,915 pounds, and an estimated 2,954,720 pounds have been removed since April 1996 (Tables 3a, 3b, and 3c). The total mass removed by SVE does not include the mass removed *in-situ* via biodegradation.

3.2 Groundwater Extraction and Treatment System

During the reporting period, the GWETS extracted groundwater from the northwest (GW-2 and GW-13) and northeast (GW-15 and GW-16) areas of the Site. The total volume of groundwater extracted by the GWETS this quarter was approximately 487,446 gallons, and an estimated 76,799,356 gallons have been extracted since April 1996. Based on the TPHd results for influent water samples and total groundwater extracted, the mass of TPHd removed by GWE this period (Second Quarter 2017) was approximately 0.3 pounds (Table 2c), and an estimated 9,945 pounds have been removed since April 1996 (Table 2c).

3.3 LNAPL Removal Via Bailing, Skimming and Absorbent Socks

During the reporting period (Second Quarter 2017), DTW and DTP was measured in well GMW-62 located off site in Hollifield Park, and wells GMW-7, GMW-18, GMW-68, TF-15, TF-16, TF-18 and TF-19, and recently installed wells RTF-18-N, RTF-18-E, RTF-18-W, RTF-18-NW and RTF-18-NNW (all installed in the vicinity of existing well TF-18 to enhance LNAPL removal in that area). As detailed in the following section (Section 3.4), these recently installed wells were all connected to an automated product recovery system along with well TF-18 during August 2016 (well TF-16 was most recently connected to this system during March 2017). For the remaining listed wells (and TF-16 through February 2017), LNAPL was removed via manual bailing, active pumping using a portable product skimmer and/or by utilizing absorbent socks installed in select wells. Approximately 33 gallons (222 pounds) of LNAPL was recovered from the Site this period (Tables 8a through 8f) via these techniques.

3.4 Product Recovery System

The product recovery system began operating on August 8, 2016 following the completion of permitting and installation work. The system consists of four pneumatically activated product removal pumps deployed in key wells located in the north-central portion of the Site. The pumped product is routed to an AST located within the existing treatment compound via double contained conveyance piping for subsequent off-site removal by a licensed transport, recycling and disposal company.

During the current reporting period (Second Quarter 2017), a total of approximately 92 gallons (630 pounds) of LNAPL was pumped from well TF-16. LNAPL thicknesses in the remaining product recovery system wells (i.e., TF-18, RTF-18-N, RTF-18-E, RTF-18-W, RTF-18-NW and RTF-18-NNW) were insufficient to allow for the resumption of pumping this period. Well TF-16 LNAPL gauging results along with cumulative mass and volume removal estimates from all of these wells are summarized in Tables 8g through 8m.

When combined with the product recovery estimate from the preceding section (Section 3.3), a total of approximately 125 gallons (852 pounds) of LNAPL was removed from the Site during Second Quarter 2017, and an estimated 6,092 gallons (41,683 pounds) of LNAPL has been removed since January 2014. The advent of product recovery system operations since August 2016 has thus resulted in the successful removal of over 85% of all the LNAPL recovered from the Site over the last three and a half years.

The waste manifest associated with the product that was removed from storage drums and/or the above ground storage tank this period is provided as Appendix B.

3.5 Biosparge System

Recommissioning of the former biosparge system continues with dual-nested SVE and biosparge wells RW-1 through RW-34 most recently installed during late June and early July 2017 (Table 1). These wells were installed in accordance with SGI's June 30, 2017 *Remediation Well Installation Update Report* as part of planned remedial expansion activities to target impacts in the northeastern and former truck fueling areas of the Site (Figure 2). The resumption of biosparge system operations on an expanded basis is anticipated to commence during the next reporting period.

4.0 SYSTEM EVALUATION AND OPTIMIZATION

Remedial system optimization activities are ongoing at the Site to help ensure effective cleanup operations. For the VES, vapor-phase VOC concentrations from the horizontal wells (i.e., HW-1, HW-3, HW-5 and HW-7) remained relatively stable this quarter. Extraction from these wells was optimized by partially closing HW-1 and HW-5 along with fully closing HW-7 by the end of the reporting period based on field readings (Table 6) and lab data (Table 7). Vertical wells VEW-32 through VEW-37 were again left off-line this quarter based on continued low/asymptotic field readings (Table 6) which were confirmed via lab data from samples collected near the end of the reporting period (Table 7). Recently installed wells VEW-38, VEW-39 and VEW-40 were additionally brought online in late June 2017 following the completion of system tie-in activities with VEW-40 concentrations analytically determined to be at or near historically high Site-wide levels.

It is anticipated that the VES will be expanded further during the next reporting period upon tie-in of as many of the recently installed RW wells (i.e., RW-1 through RW-34) as feasible. Based on the likelihood of relatively high vapor phase concentrations from several of these wells, plans are underway to assess the addition of an oxidizer to help reduce carbon usage associated with the existing system by separating the flows from higher and lower concentration wells accordingly. The oxidizer would include an SCAQMD Various Locations Permit such that operations could begin as soon as hookup activities are completed. The respective systems would be reconfigured on a regular basis to allow for cost-effective operations as concentrations in one or more of these wells decline to the point where carbon treatment is again feasible.

As discussed previously, the planned resumption of biosparge system operations next quarter is also slated for expansion. Details associated with expanded system operations will be provided in a forthcoming document. In the meantime, SGI will continue to monitor individual well influent vapor concentrations, and modify which wells are online along with adjusting valve positions, as necessary.

Per the non-detect, stable, or declining dissolved groundwater analytical data from off-site wells (as illustrated in previous semiannual groundwater monitoring reports) and from the previous aquifer pump testing and groundwater capture zone analysis, the current GWETS with wells in the northeast area and northwest corner have been successful in preventing further impacted groundwater from flowing off site and have captured and treated a significant portion of impacted groundwater under Holifield Park and in the northwest corner. The overall area of impacts and plumes were also similar to previous events.

GWE in the northwest and northeast areas will continue to assist with contaminant containment. Additionally, absorbent sock installation and LNAPL recovery via pumping and/or manual bailing will continue along with full-scale OM&M of the product recovery system. All but one of the four pneumatically activated product removal pumps associated with this system are currently off-line due to insufficient yields. If and when LNAPL recovery occurs in the north-central portion of the Site (based on up-to-date gauging data), pumping will resume in one or more locations accordingly and/or recovery operations will be rotated on the basis of ongoing performance data. In the meantime,

automated operations are planned for implementation next quarter at well GWM-68 (via the use of a dedicated pump and truck-mounted pumping power equipment) based on recent gauging and manual recovery data (see Table 8d).

For well TF-16 which is currently online, adjustments will continue to be made to the associated extraction frequency and duration of each pump cycle to help maximize LNAPL yields without isolating the well from the product plume. Future adjustments to all such wells will also be made on the basis of ongoing bail down testing which is conducted to establishing current transmissivity values for correlating apparent to actual product thicknesses. Future pilot testing is also planned in accordance with SGI's *TF-18 Area LNAPL Recovery Report and Interim Work Plan*, dated January 18, 2017. The test results will be provided in a forthcoming document and utilized to evaluate the feasibility of system expansion and/or enhanced product recovery with the goal of achieving LNAPL removal to the maximum extent practicable.

5.0 PLANNED THIRD QUARTER 2017 ACTIVITIES

During the next reporting period, DLA plans to continue to focus in-situ remedial efforts on the northwest, northeast, north-central and former truck fueling areas of the Site along with resuming biosparge system operations on an expanded basis. Following is a summary of planned Third Quarter 2017 OM&M activities:

- Continue weekly maintenance and monitoring of the VES and GWETS, including measuring individual well vapor concentrations with an OVA; and collecting/analyzing SVE and GWE influent and effluent vapor and groundwater samples;
- Collect individual well vapor samples for laboratory analysis, including additional wells planned for system hookup next quarter (i.e., RW-1 through RW-34) and/or recently tied into the VES (i.e., VEW-38, VEW-39 and VEW-40);
- Continue regular LNAPL gauging and removal activities (as applicable), including wells GWM-7, GMW-18, GWM-62 and GMW-68 (both located off site in Holifield Park), PZ-3, TF-15 and TF-19 along with wells TF-16, TF-18, RTF-18-N, RTF-18-E, RTF-18-W, RTF-18-NW and RTF-18-NNW;
- Continue controlled product recovery system OM&M from wells TF-16, TF-18, RTF-18-N, RTF-18-E, RTF-18-W, RTF-18-NW and/or RTF-18-NNW, located in the north-central portion of the Site, with focused efforts in wells where LNAPL yields are the most significant;
- Automate product recovery from well GMW-68 and begin LNAPL removal operations using truck-mounted pumping power equipment with extraction frequencies and durations adjusted accordingly to help maximize the yield without isolating the well from the product plume;
- Continue to evaluate GWE flow rates and confirm contaminant containment;
- Complete recommissioning activities associated with the former biosparge system and resume operations on an expanded basis;
- Prepare and submit an updated LNAPL Conceptual Site Model with planned expanded biosparge system and VES details;
- Deploy and hookup an SCAQMD various locations permitted oxidizer to cost-effectively treat process vapor streams associated with any relatively high concentration SVE wells that were recently installed and connected to the system or planned for connection next quarter;
- Prepare and submit a final report documenting the activities and results associated with the recently completed aboveground soil treatment project; and
- Conduct enhanced LNAPL recovery testing in accordance with SGI's January 18, 2017 *TF-18 Area LNAPL Recovery Report and Interim Work Plan*.

Ongoing remediation activities and progress will be described in the *Third Quarter 2017 Remediation Progress Report* to be submitted by November 15, 2017.

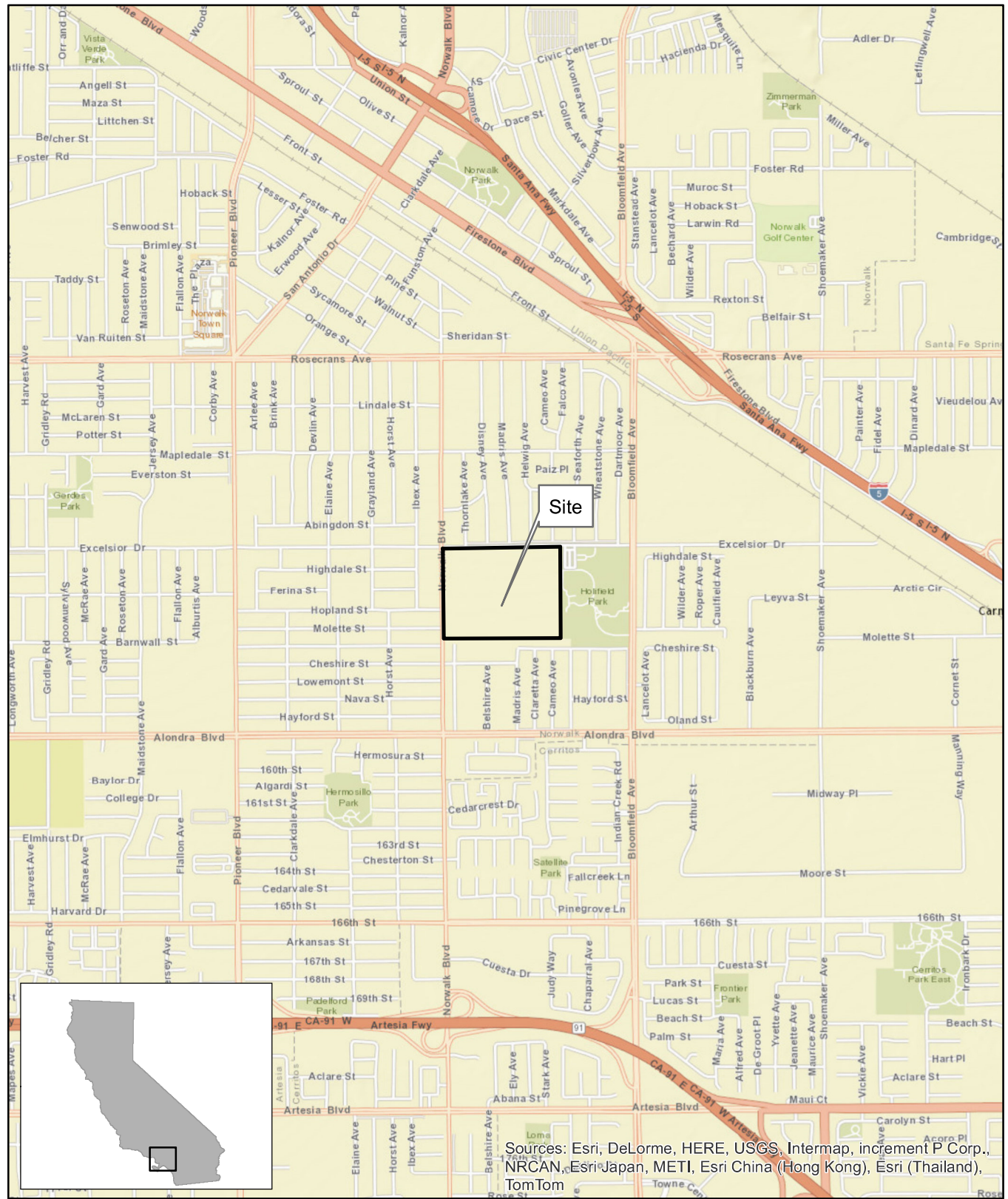
6.0 LIMITATIONS

This document was prepared for the exclusive use of the Defense Logistics Agency Installation Support for Energy (DLA) and the California Regional Water Quality Control Board, Los Angeles Region (LARWQCB) for the express purpose of complying with a client or regulatory directive for environmental investigation or restoration. SGI and DLA must approve any re-use of this work product in whole or in part for a different purpose or by others in writing. If any such unauthorized use occurs, it shall be at the user's sole risk without liability to SGI or DLA.

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The presented findings and recommendations in this report are intended to be taken in their entirety to assist DLA and LARWQCB personnel in applying their own professional judgment in making decisions related to the property. SGI cannot provide conclusions on environmental conditions outside the completed scope of work. SGI cannot guarantee that future conditions will not change and affect the validity of the presented conclusions and recommended work. No warranty or guarantee, whether expressed or implied, is made with respect to the data or the reported findings, observations, conclusions, and recommendations.

FIGURES



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

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

PROJECT NO.:	DATE:	DR. BY:	APP. BY:
04-NDLA-003	5/28/2014	JK	PP

SCALE= 1:24,000

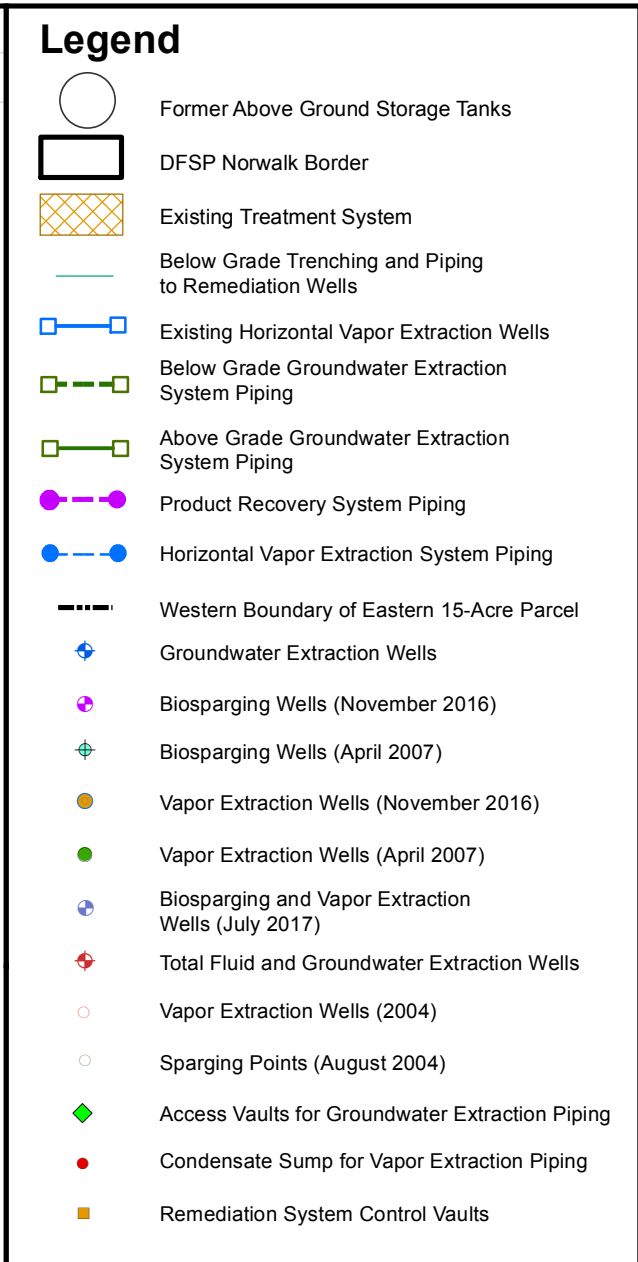
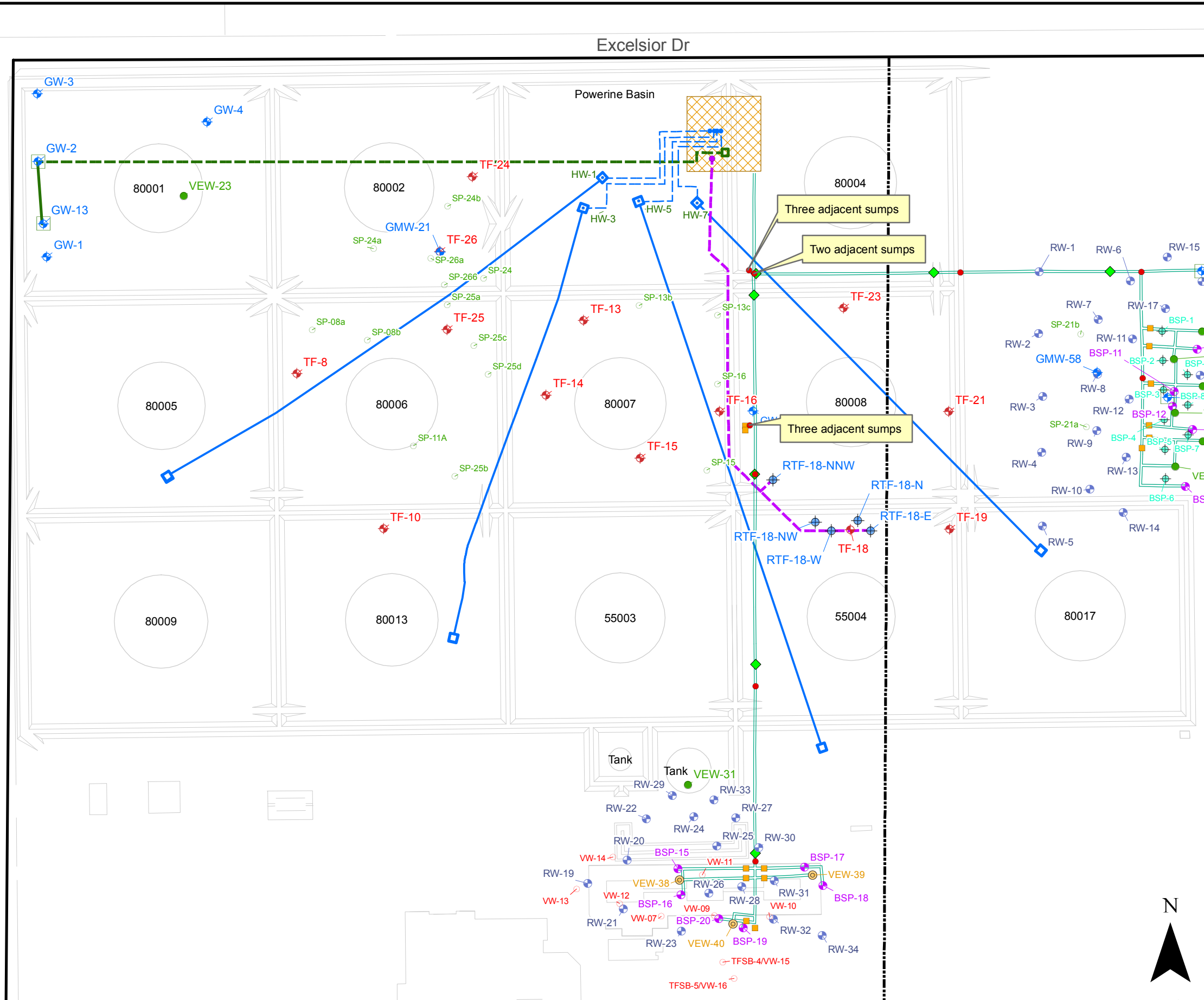


FIGURE
1

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

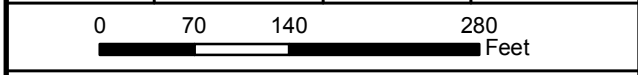
**DEFENSE FUEL SUPPORT POINT
 NORWALK**
 15306 NORWALK BOULEVARD
 NORWALK, CALIFORNIA

SITE LOCATION MAP



DFSP Norwalk
15306 Norwalk Boulevard
Norwalk, California

Project Number:	Date:	Drawn By:	Approved By:
04-NDLA-007	08/01/2017	PW	BT



Site Map Showing Remediation Well and Piping Locations

<p>THE SOURCE GROUP, INC. 1962 Freeman Avenue Signal Hill, CA 90755 (562) 597-1055</p>	<p>Figure 2</p>
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TABLES

TABLE 1 *
Remediation Well Construction
DFSP, Norwalk
15306 Norwalk Blvd., Norwalk, CA

Remediation Area	Well	Notes	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function
North-West (AST 80001)	GW-1		06/12/95	75.97	63	25 - 60	GWE
	GW-2		06/12/95	75.78	63	25 - 60	GWE
	GW-3		06/13/95	75.79	63	25 - 60	GWE
	GW-4		06/12/95	75.78	63	25 - 60	GWE
	GW-13		04/26/07	76.85	67	25 - 65	GWE
	VEW-23		08/03/04	76.20	25	15 - 25	SVE
North-Central (AST 80002, AST 80004, AST 80006, AST 80007, AST 80008, AST 8001, AST 55004)	VEW-22		--	--	25	15 - 25	SVE
	HW-1		--	--	25	Continuous	SVE
	HW-3		--	--	25	Continuous	SVE
	HW-5		--	--	25	Continuous	SVE
	HW-7		--	--	25	Continuous	SVE
	GMW-21	1	08/02/91	76.23	50	25 - 50	TFE/GWE
	GW-14R	2	11/08/16	78.77	50	25 - 50	GWE
	SP8a		--	--	50	48 - 50	Biosparge
	SP-8b		--	--	50	48 - 50	Biosparge
	SP-11b		--	--	50	48 - 50	Biosparge
	SP-11c		--	--	50	48 - 50	Biosparge
	SP-13b	3	--	--	50	48 - 50	Biosparge
	SP-13c		--	--	50	48 - 50	Biosparge
	SP-15	4	--	--	50	48 - 50	Biosparge
	SP-16		--	--	50	48 - 50	Biosparge
	SP-21a		--	--	50	48 - 50	Biosparge
	SP-21b		--	--	50	48 - 50	Biosparge
	SP-24		--	--	50	48 - 50	Biosparge
	SP-24a		--	--	50	48 - 50	Biosparge
	SP-24b		--	--	50	48 - 50	Biosparge
	SP-25a		--	--	50	48 - 50	Biosparge
	SP-25b		--	--	50	48 - 50	Biosparge
	SP-25c		--	--	50	48 - 50	Biosparge
	SP-25d		--	--	50	48 - 50	Biosparge
	SP-26		--	--	50	48 - 50	Biosparge
	SP-26a		--	--	50	48 - 50	Biosparge
	TF-8		09/22/95	74.86	63	25 - 60	TFE, GWE
	TF-9	5	09/22/95	74.47	63	25 - 60	TFE, GWE
	TF-10		09/25/95	73.61	63	25 - 60	TFE, GWE
	TF-11	5	09/25/95	74.40	63	25 - 60	TFE, GWE
	TF-13		09/26/95	75.47	63	25 - 60	TFE, GWE
	TF-14		09/27/95	74.35	63	25 - 60	TFE, GWE
	TF-15		09/28/95	74.78	63	25 - 60	TFE, GWE
TF-16		09/28/95	75.89	63	25 - 60	TFE, GWE	
TF-17	6	09/29/95	74.88	63	25 - 60	TFE, GWE	
TF-18		07/06/94	73.75	50.5	20 - 50	TFE, GWE	
TF-19		10/03/95	75.07	63	25 - 60	TFE, GWE	
TF-20	7	10/03/95	75.08	63	25 - 60	TFE, GWE	
TF-21		09/29/95	74.96	63	25 - 60	TFE, GWE	
TF-22	8	10/02/95	74.76	63	25 - 60	TFE, GWE	
North-Central (AST 80002, AST 80004, AST 80006, AST 80007, AST 80008, AST 8001, AST 55004)	TF-23		07/05/94	75.31	50.5	20 - 50	TFE, GWE
	TF-24	9	09/26/95	76.43	63	25 - 60	TFE, GWE
	TF-25		04/04/01	74.85	47	26 - 36	TFE, GWE
	TF-26		04/03/01	75.85	47	26 - 36	TFE, GWE
	RTF-18-N		12/28/15	75.17	40	25 - 40	TFE, GWE
	RTF-18-E		12/28/15	75.19	40	25 - 40	TFE, GWE
	RTF-18-W		12/28/15	74.86	40	25 - 40	TFE, GWE
	RTF-18-NW		12/29/15	76.22	40	25 - 40	TFE, GWE
RTF-18-NNW		12/29/15	76.77	40	25 - 40	TFE, GWE	

TABLE 1 *
Remediation Well Construction
DFSP, Norwalk
15306 Norwalk Blvd., Norwalk, CA

Remediation Area	Well	Notes	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function	
North-East	BSP-1		04/18/07	--	50	47 - 49	Biosparge	
	BSP-2		04/18/07	--	50	48 - 50	Biosparge	
	BSP-3		04/17/07	--	48	46 - 48	Biosparge	
	BSP-4		04/17/07	--	49	47 - 49	Biosparge	
	BSP-5		04/17/07	--	49.5	47 - 49	Biosparge	
	BSP-6		04/18/07	--	49	47 - 49	Biosparge	
	BSP-7		04/19/07	--	48	46 - 48	Biosparge	
	BSP-8		04/19/07	--	48	46 - 48	Biosparge	
	BSP-9		04/19/07	--	48	46 - 48	Biosparge	
	BSP-10	10	11/04/16	--	46.5	44 - 46	Biosparge	
	BSP-11	10	11/04/16	--	40	38 - 40	Biosparge	
	BSP-12	10	11/04/16	--	46.5	44 - 46	Biosparge	
	BSP-13	10	11/07/16	--	46.5	44 - 46	Biosparge	
	BSP-14	10	11/07/16	--	46.5	44 - 46	Biosparge	
	GMW-58			08/14/98	75.48	55	20 - 55	GWE
	GW-15			04/26/07	74.94	60.5	20.5 - 60.6	GWE
	GW-16			07/07/09	76.33	63	20.5 - 60.5	GWE
	RW-1	11		06/21/17	-- / --	33 / 46	15 - 35 / 43 - 45	SVE / Biosparge
	RW-2	11		06/21/17	-- / --	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
	RW-3	11		06/21/17	-- / --	37 / 46	17 - 37 / 43 - 45	SVE / Biosparge
	RW-4	11		06/22/17	-- / --	34 / 46	14 - 34 / 43 - 45	SVE / Biosparge
	RW-5	11		06/22/17	-- / --	34 / 46	14 - 34 / 43 - 45	SVE / Biosparge
	RW-6	11		06/27/17	-- / --	37 / 46	17 - 37 / 43 - 45	SVE / Biosparge
	RW-7	11		06/26/17	-- / --	37 / 46	17 - 37 / 43 - 45	SVE / Biosparge
	RW-8	11		06/28/17	-- / --	38.5 / 46	18.5 - 38.5 / 43 - 45	SVE / Biosparge
	RW-9	11		06/26/17	-- / --	35 / 46	15 - 35 / 43 - 45	SVE / Biosparge
	RW-10	11		06/22/17	-- / --	34 / 46	14 - 34 / 43 - 45	SVE / Biosparge
	RW-11	11		06/26/17	-- / --	36 / 46	16 - 36 / 43 - 45	SVE / Biosparge
	RW-12	11		06/23/17	-- / --	34 / 46	14 - 34 / 43 - 45	SVE / Biosparge
	RW-13	11		06/23/17	-- / --	35 / 46	15 - 35 / 43 - 45	SVE / Biosparge
	RW-14	11		06/23/17	-- / --	34 / 46	14 - 34 / 43 - 45	SVE / Biosparge
	RW-15	11		06/20/17	-- / --	33 / 46	18 - 38 / 43 - 45	SVE / Biosparge
	RW-16	11		06/20/17	-- / --	33 / 46	14 - 34 / 43 - 45	SVE / Biosparge
	RW-17	11		06/27/17	-- / --	33 / 46	19 - 39 / 43 - 45	SVE / Biosparge
	RW-18	11		06/20/17	-- / --	33 / 46	18 - 38 / 43 - 45	SVE / Biosparge
	SP-21a	3		--	--	50	48 - 50	Biosparge
	SP-21b	3		--	--	50	48 - 50	Biosparge
VEW-32			04/11/07	--	25	10 - 25	SVE	
VEW-33			04/11/07	--	25	10 - 25	SVE	
VEW-34			04/11/07	--	25	10 - 25	SVE	
VEW-35			04/10/07	--	25	10 - 25	SVE	
VEW-36			04/10/07	--	25	10 - 25	SVE	
VEW-37			40/10/07	--	25	10 - 25	SVE	
Former Truck Fueling Area and Adjacent Water Tank Area	BSP-15	10	11/02/16	--	50.5	48 - 50	Biosparge	
	BSP-16	10	11/03/16	--	50.5	48 - 50	Biosparge	
	BSP-17	10	11/03/16	--	50.5	48 - 50	Biosparge	
	BSP-18	10	11/03/16	--	50.5	48 - 50	Biosparge	
	BSP-19	10	11/02/16	--	50.5	48 - 50	Biosparge	
	BSP-20	10	11/01/16	--	50.5	48 - 50	Biosparge	
	RW-19	11	06/30/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
	RW-20	11	06/29/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
	RW-21	11	06/30/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
	RW-22	11	06/28/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
	RW-23	11	06/30/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
RW-24	11	06/28/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge		

TABLE 1 *
Remediation Well Construction
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Remediation Area	Well	Notes	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function
Former Truck Fueling Area and Adjacent Water Tank Area	RW-25	11	06/28/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
	RW-26	11	07/03/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
	RW-27	11	06/28/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
	RW-28	11	07/03/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
	RW-29	11	06/29/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
	RW-30	11	06/27/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
	RW-31	11	07/03/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
	RW-32	11	07/03/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
	RW-33	11	06/29/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
	RW-34	11	07/03/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
	VEW-31		08/03/04	75.10	15	5 - 15	SVE
	VEW-38	10	11/02/16	--	30.5	20 - 30	SVE
	VEW-39	10	11/03/16	--	30.5	20 - 30	SVE
	VEW-40	10	11/02/16	--	30.5	20 - 30	SVE
	VW-07		--	75.64	--	--	SVE
	VW-09		--	75.77	--	--	SVE
	VW-10		03/23/04	75.78	30.5	20 - 30	SVE
	VW-11		03/23/04	75.55	25	20 - 25	SVE
	VW-12		03/23/04	75.79	30.5	15 - 30	SVE
	VW-13		03/23/04	75.42	29	25 - 29	SVE
VW-14		03/23/04	75.89	28	15 - 28	SVE	
VW-15		04/14/04	75.45	30	20 - 30	SVE	
VW-16		04/14/04	75.29	30	20 - 30	SVE	

Legend/Notes :

ft msl = Feet above mean sea level
 ft bgs = Feet below ground surface
 AST = Aboveground storage tank
 GWE = Groundwater extraction
 SVE = Soil vapor extraction
 TFE = Total fluids extraction
 -- = Information not available

- 1 = Also referred to as TF-24.
- 2 = Replaced abandoned well GW-14 per SGI's March 14, 2017 *Well Replacement Report and Work Plan*.
- 3 = Located during field reconnaissance work conducted on September 21, 2016 but determined to likely have silt at the bottom of the casing since the measured total depth was several feet higher than the construction well depth.
- 4 = Located during field reconnaissance work conducted on September 21, 2016 but determined to be inaccessible.
- 5 = Abandoned on December 29, 2014 (replacement pending per SGI's March 14, 2017 *Well Replacement Report and Work Plan*).
- 6 = Abandoned on December 30, 2014 (replacement pending per SGI's March 14, 2017 *Well Replacement Report and Work Plan*).
- 7 = Abandoned on January 5, 2015 (replacement pending per SGI's March 14, 2017 *Well Replacement Report and Work Plan*).
- 8 = Abandoned on December 31, 2014 (replacement pending per SGI's March 14, 2017 *Well Replacement Report and Work Plan*).
- 9 = Also referred to as "old TF-24" or "former TF-24".
- 10 = Recently installed per SGI's March 14, 2017 *Well Replacement Report and Work Plan*.
- 11 = Recently installed per SGI's June 30, 2017 *Remediation Well Installation Update Report*.

* = Wells listed on prior version of this table (see SGI's May 12, 2017 *Remediation Status Report - First Quarter 2017*) were either abandoned during December 2014 or January 2015 to allow for the excavation of impacted soil from the area at or surrounding each respective well (i.e., SP-8, SP-9, SP-11, SP-11a, SP-17, SP-17a, SP-20, SP-20a, SP-21, SP-24c, SP-25, VEW-20, VEW-21, VEW-28, VEW-29 and VEW-30; see SGI's forthcoming *Shallow Soil Closure Report*) or were confirmed to be missing/destroyed during field reconnaissance work conducted on September 21, 2016 (i.e., SP-13, SP-13a, SP-13b, SP-14, SP-14a, SP-14b, SP-14c, SP-15a, SP-18, SP-18a, SP-22, SP-22a, SP-23, SP-23a, SP-23b, SP-23c, VEW-22, VEW-24, VEW-25, VEW-26 and VEW-27).

TABLE 2a
Groundwater Extraction and Treatment System Operations Summary - April
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	GW-2 Totalizer Reading (gallons)	GW-13 Totalizer Reading (gallons)	GW-15 Totalizer Reading (gallons)	GW-16 Totalizer Reading (gallons)	Groundwater Extracted from North-East Area (gallons)	Groundwater Extracted from North-West Area (gallons)	NPDES Discharge Totalizer Reading (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed ^A (lb)
04/01/17	*		176,389	4,092,127	2,439,613	8,005,351	10,444,964	4,268,516	76,316,206	--	9,944
04/02/17	*		177,409	4,093,438	2,440,223	8,008,248	10,448,470	4,270,847	76,320,503	--	9,944
04/03/17	*		178,428	4,094,749	2,440,833	8,011,144	10,451,977	4,273,177	76,324,799	--	9,944
04/04/17	*		179,490	4,096,115	2,441,468	8,014,162	10,455,630	4,275,605	76,329,275	--	9,944
04/05/17	Technician	1	180,390	4,097,373	2,443,820	8,016,472	10,460,292	4,277,763	76,335,542	74	9,944
04/06/17	*		181,134	4,098,904	2,444,443	8,018,698	10,463,141	4,280,038	76,340,245	--	9,944
04/07/17	Technician	2	181,870	4,100,420	2,445,060	8,020,900	10,465,960	4,282,290	76,344,900	--	9,944
04/08/17	*		181,870	4,103,225	2,445,954	8,023,284	10,469,238	4,285,095	76,349,116	--	9,944
04/09/17	*		181,870	4,106,029	2,446,848	8,025,669	10,472,517	4,287,899	76,353,333	--	9,944
04/10/17	Technician	3	181,870	4,109,360	2,447,910	8,028,500	10,476,410	4,291,230	76,358,340	--	9,944
04/11/17	*		182,837	4,111,326	2,456,139	8,031,293	10,487,432	4,294,163	76,369,296	--	9,944
04/12/17	*		183,803	4,113,292	2,464,368	8,034,086	10,498,453	4,297,095	76,380,251	--	9,944
04/13/17	Technician	4	184,619	4,114,951	2,471,311	8,036,442	10,507,753	4,299,570	76,389,495	--	9,944
04/14/17	Technician	5	184,619	4,114,951	2,471,311	8,036,442	10,507,753	4,299,570	76,389,495	--	9,944
04/15/17	*		185,383	4,116,758	2,473,520	8,038,346	10,511,866	4,302,141	76,395,253	--	9,944
04/16/17	*		186,148	4,118,564	2,475,730	8,040,249	10,515,979	4,304,712	76,401,012	--	9,944
04/17/17	Technician	6	186,896	4,120,333	2,477,893	8,042,113	10,520,006	4,307,229	76,406,650	--	9,944
04/18/17	Off line		186,896	4,120,333	2,477,893	8,042,113	10,520,006	4,307,229	76,406,650	--	9,944
04/19/17	Off line		186,896	4,120,333	2,477,893	8,042,113	10,520,006	4,307,229	76,406,650	--	9,944
04/20/17	Off line		186,896	4,120,333	2,477,893	8,042,113	10,520,006	4,307,229	76,406,650	--	9,944
04/21/17	Off line		186,896	4,120,333	2,477,893	8,042,113	10,520,006	4,307,229	76,406,650	--	9,944
04/22/17	Off line		186,896	4,120,333	2,477,893	8,042,113	10,520,006	4,307,229	76,406,650	--	9,944
04/23/17	Off line		186,896	4,120,333	2,477,893	8,042,113	10,520,006	4,307,229	76,406,650	--	9,944
04/24/17	Off line		186,896	4,120,333	2,477,893	8,042,113	10,520,006	4,307,229	76,406,650	--	9,944
04/25/17	Technician	7	186,896	4,120,333	2,477,893	8,042,113	10,520,006	4,307,229	76,406,650	--	9,944
04/26/17	*		187,863	4,120,997	2,478,684	8,043,406	10,522,090	4,308,860	76,410,486	--	9,944
04/27/17	*		188,830	4,121,661	2,479,475	8,044,699	10,524,174	4,310,491	76,414,323	--	9,944
04/28/17	Technician		189,646	4,122,221	2,480,142	8,045,790	10,525,932	4,311,867	76,417,560	--	9,944
04/29/17	*		190,390	4,123,381	2,482,808	8,049,855	10,532,663	4,313,771	76,424,610	--	9,944
04/30/17	*		191,134	4,124,541	2,485,473	8,053,920	10,539,393	4,315,676	76,431,661	--	9,944

Cumulative Groundwater Discharged by the GWETS to Date (gallons)							
Period	April	Quarter 1, 2017	Quarter 2, 2017	Quarter 3, 2017	Quarter 4, 2017	2017 to Date	April 1996 to Date
Volume	119,751	467,663	119,751	--	--	587,413	76,431,661

Cumulative Mass DRO Removed by the GWETS ^A (lb)			
Period	April	Quarter 2 to Date	April 1996 to Date
Mass	0.07	0.07	9,944.5

$$Liquid\text{-Phase}\ DRO\ Mass\ [lb] = \left(Conc. \left[\frac{\mu g}{L} \right] \right) \cdot \left(\frac{3.785\ L}{gal} \right) \cdot \left(\frac{1\ g}{1,000,000\ \mu g} \right) \cdot \left(\frac{1\ lb}{453.59\ g} \right) \cdot (Volume\ [gal])$$

Legend / Notes:

- 1 = Collected monthly influent, intermediate, and effluent samples for laboratory analysis.
- 2 = Pump in well GW-2 manually shut down for maintenance.
- 3 = Pump in well GW-2 brought back online following completion of maintenance work.
- 4 = GWETS manually shut down for media change out work.
- 5 = GWETS restarted following completion of media change out work.
- 6 = GWETS manually shut down for routine GWM&S activities and annual totalizer calibration.
- 7 = GWETS restarted following completion of GWM&S activities and calibration of totalizer.

GWETS = Groundwater extraction and treatment system lb = Pounds
 µg/L - Micrograms per liter DRO = Diesel range organics

A = Hydrocarbon removal is calculated using analytical laboratory result for DRO (if not detected, half the detection limit is used) from sample collected on: 04/05/17 (laboratory report attached).
 -- = Not applicable
 * = Operational values interpolated from chart recorder data or previous monitoring event.

Groundwater extraction wells on line this month: GW-2, GW-13, GW-15, GW-16

TABLE 2b
Groundwater Extraction and Treatment System Operations Summary - May
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	GW-2 Totalizer Reading (gallons)	GW-13 Totalizer Reading (gallons)	GW-15 Totalizer Reading (gallons)	GW-16 Totalizer Reading (gallons)	Groundwater Extracted from North-East Area (gallons)	Groundwater Extracted from North-West Area (gallons)	NPDES Discharge Totalizer Reading (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed ^A (lb)
05/01/17	*		191,878	4,125,701	2,488,139	8,057,985	10,546,124	4,317,580	76,438,711	--	9,944
05/02/17	*		192,622	4,126,862	2,490,805	8,062,050	10,552,855	4,319,484	76,445,761	--	9,945
05/03/17	Technician	1,2,3	193,475	4,128,191	2,493,859	8,066,708	10,560,567	4,321,666	76,453,840	72	9,945
05/04/17	*		194,198	4,129,331	2,496,943	8,069,404	10,566,347	4,323,529	76,458,755	--	9,945
05/05/17	*		194,921	4,130,471	2,500,026	8,072,100	10,572,127	4,325,392	76,463,669	--	9,945
05/06/17	*		195,643	4,131,611	2,503,110	8,074,797	10,577,907	4,327,255	76,468,584	--	9,945
05/07/17	*		196,366	4,132,752	2,506,194	8,077,493	10,583,686	4,329,118	76,473,499	--	9,945
05/08/17	Technician		197,006	4,133,761	2,508,924	8,079,880	10,588,804	4,330,767	76,477,850	--	9,945
05/09/17	*		197,679	4,134,781	2,511,954	8,082,378	10,594,332	4,332,460	76,482,457	--	9,945
05/10/17	*		198,352	4,135,801	2,514,985	8,084,876	10,599,861	4,334,153	76,487,065	--	9,945
05/11/17	*		199,025	4,136,820	2,518,015	8,087,374	10,605,389	4,335,845	76,491,672	--	9,945
05/12/17	Technician	4,5	199,663	4,137,787	2,520,888	8,089,742	10,610,630	4,337,450	76,496,040	--	9,945
05/13/17	*		199,663	4,139,545	2,523,386	8,091,699	10,615,085	4,339,208	76,500,278	--	9,945
05/14/17	*		199,663	4,141,302	2,525,883	8,093,657	10,619,540	4,340,965	76,504,516	--	9,945
05/15/17	*		199,663	4,143,060	2,528,381	8,095,614	10,623,995	4,342,723	76,508,754	--	9,945
05/16/17	*		199,663	4,144,818	2,530,879	8,097,572	10,628,451	4,344,481	76,512,992	--	9,945
05/17/17	Technician		199,663	4,146,905	2,533,845	8,099,896	10,633,741	4,346,568	76,518,025	--	9,945
05/18/17	*		199,663	4,147,454	2,535,115	8,100,791	10,635,905	4,347,117	76,520,206	--	9,945
05/19/17	*		199,663	4,148,002	2,536,384	8,101,685	10,638,070	4,347,665	76,522,386	--	9,945
05/20/17	*		199,663	4,148,551	2,537,654	8,102,580	10,640,234	4,348,214	76,524,567	--	9,945
05/21/17	*		199,663	4,149,099	2,538,923	8,103,475	10,642,398	4,348,762	76,526,747	--	9,945
05/22/17	Technician	6	199,663	4,149,638	2,540,171	8,104,354	10,644,525	4,349,301	76,528,890	--	9,945
05/23/17	*		200,727	4,150,406	2,543,081	8,106,585	10,649,665	4,351,133	76,534,935	--	9,945
05/24/17	Technician		201,787	4,151,171	2,545,980	8,108,808	10,654,788	4,352,958	76,540,960	--	9,945
05/25/17	*		203,788	4,153,533	2,548,929	8,111,428	10,660,358	4,357,321	76,548,742	--	9,945
05/26/17	*		205,788	4,155,895	2,551,878	8,114,049	10,665,927	4,361,683	76,556,523	--	9,945
05/27/17	*		207,789	4,158,257	2,554,827	8,116,669	10,671,497	4,366,046	76,564,305	--	9,945
05/28/17	*		209,790	4,160,619	2,557,777	8,119,289	10,677,066	4,370,409	76,572,086	--	9,945
05/29/17	*		211,791	4,162,981	2,560,726	8,121,910	10,682,636	4,374,771	76,579,868	--	9,945
05/30/17	Technician		213,708	4,165,244	2,563,552	8,124,421	10,687,973	4,378,952	76,587,325	--	9,945
05/31/17	Technician		216,056	4,168,332	2,565,997	8,126,483	10,692,480	4,384,388	76,594,256	--	9,945

Cumulative Groundwater Discharged by the GWETS (gallons)

Period	May	Quarter 1, 2017	Quarter 2, 2017	Quarter 3, 2017	Quarter 4, 2017	2017 to Date	April 1996 to Date
Volume	162,595	467,663	282,346	--	--	750,009	76,594,256

Cumulative Mass DRO Removed by the GWETS ^A (lb)

Period	May	Quarter 2 to Date	April 1996 to Date
Mass	0.10	0.17	9,944.6

$$Liquid-Phase\ DRO\ Mass\ [lb] = \left(Conc. \left[\frac{\mu g}{L} \right] \right) \cdot \left(\frac{3.785\ L}{gal} \right) \cdot \left(\frac{1\ g}{1,000,000\ \mu g} \right) \cdot \left(\frac{1lb}{453.59\ g} \right) \cdot (Volume\ [gal])$$

Legend / Notes:

- 1 = Collected monthly process, intermediate and effluent samples for laboratory analysis.
- 2 = Collected quarterly effluent samples for laboratory analysis.
- 3 = Measured residual chlorine in the field using HACH Test Kit Model CN-70.
- 4 = Pump in well GW-2 manually shut down for repair work.
- 5 = GWETS temporarily off-line for media change out work.
- 6 = Pump in well GW-2 brought back online following completion of repair work.

GWETS = Groundwater extraction and treatment system lb = Pounds
 µg/L - Micrograms per liter DRO = Diesel range organics

A = Hydrocarbon removal is calculated using analytical laboratory result for DRO (if not detected, half the detection limit is used) from sample collected on: 05/03/17 (laboratory report attached).
 -- = Not applicable
 * = Operational values interpolated from chart recorder data or previous monitoring event.

Groundwater extraction wells on line this month: GW-2, GW-13, GW-15, GW-16

TABLE 2c
Groundwater Extraction and Treatment System Operations Summary - June
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	GW-2 Totalizer Reading (gallons)	GW-13 Totalizer Reading (gallons)	GW-15 Totalizer Reading (gallons)	GW-16 Totalizer Reading (gallons)	Groundwater Extracted from North-East Area (gallons)	Groundwater Extracted from North-West Area (gallons)	NPDES Discharge Totalizer Reading (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed ^A (lb)
06/01/17	*		218,404	4,171,421	2,568,442	8,128,545	10,696,987	4,389,825	76,601,187	--	9,945
06/02/17	*		220,753	4,174,509	2,570,886	8,130,607	10,701,493	4,395,261	76,608,119	--	9,945
06/03/17	*		223,101	4,177,597	2,573,331	8,132,669	10,706,000	4,400,698	76,615,050	--	9,945
06/04/17	Auto Shutdown	1	225,449	4,180,685	2,575,776	8,134,731	10,710,507	4,406,134	76,621,981	--	9,945
06/05/17	Technician	2,3	227,564	4,183,467	2,577,978	8,136,588	10,714,566	4,411,031	76,628,224	62	9,945
06/06/17	*		230,226	4,187,056	2,580,986	8,138,920	10,719,905	4,417,282	76,637,242	--	9,945
06/07/17	*		232,888	4,190,646	2,583,993	8,141,251	10,725,244	4,423,534	76,646,260	--	9,945
06/08/17	*		235,550	4,194,235	2,587,001	8,143,583	10,730,584	4,429,785	76,655,278	--	9,945
06/09/17	Technician		238,116	4,197,695	2,589,900	8,145,830	10,735,730	4,435,811	76,663,970	--	9,945
06/10/17	*		240,999	4,201,372	2,593,092	8,148,006	10,741,098	4,442,372	76,671,591	--	9,945
06/11/17	*		243,883	4,205,050	2,596,284	8,150,183	10,746,466	4,448,932	76,679,212	--	9,945
06/12/17	Technician	4	246,946	4,208,957	2,599,675	8,152,495	10,752,170	4,455,903	76,687,310	--	9,945
06/13/17	*		250,278	4,208,957	2,601,458	8,156,022	10,757,480	4,459,235	76,694,609	--	9,945
06/14/17	*		253,610	4,208,957	2,603,241	8,159,549	10,762,790	4,462,567	76,701,907	--	9,945
06/15/17	*		256,943	4,208,957	2,605,024	8,163,076	10,768,099	4,465,900	76,709,206	--	9,945
06/16/17	*		260,275	4,208,957	2,606,807	8,166,602	10,773,409	4,469,232	76,716,505	--	9,945
06/17/17	*		263,607	4,208,957	2,608,589	8,170,129	10,778,719	4,472,564	76,723,804	--	9,945
06/18/17	*		266,939	4,208,957	2,610,372	8,173,656	10,784,029	4,475,896	76,731,102	--	9,945
06/19/17	Technician	5	270,230	4,208,957	2,612,133	8,177,139	10,789,272	4,479,187	76,738,310	--	9,945
06/20/17	*		273,451	4,208,957	2,612,779	8,180,421	10,793,200	4,482,408	76,744,959	--	9,945
06/21/17	*		276,673	4,208,957	2,613,424	8,183,704	10,797,128	4,485,630	76,751,609	--	9,945
06/22/17	*		279,894	4,208,957	2,614,070	8,186,986	10,801,056	4,488,851	76,758,258	--	9,945
06/23/17	*		283,115	4,208,957	2,614,715	8,190,269	10,804,984	4,492,072	76,764,908	--	9,945
06/24/17	*		286,337	4,208,957	2,615,361	8,193,551	10,808,912	4,495,294	76,771,557	--	9,945
06/25/17	*		289,558	4,208,957	2,616,006	8,196,834	10,812,840	4,498,515	76,778,207	--	9,945
06/26/17	Technician		292,786	4,208,957	2,616,653	8,200,123	10,816,776	4,501,743	76,784,870	--	9,945
06/27/17	*	6	295,588	4,208,957	2,617,422	8,203,265	10,820,687	4,504,545	76,791,541	--	9,945
06/28/17	*		298,832	4,208,957	2,617,422	8,203,265	10,820,687	4,507,789	76,794,188	--	9,945
06/29/17	Technician		301,580	4,208,957	2,617,422	8,203,265	10,820,687	4,510,537	76,796,430	--	9,945
06/30/17	*		304,448	4,208,957	2,617,422	8,203,265	10,820,687	4,513,405	76,799,356	--	9,945

Cumulative Groundwater Discharged by the GWETS (gallons)							
Period	June	Quarter 1, 2017	Quarter 2, 2017	Quarter 3, 2017	Quarter 4, 2017	2017 to Date	April 1996 to Date
Volume	205,100	467,663	487,446	--	--	955,109	76,799,356

Cumulative Mass DRO Removed by the GWETS ^A (lb)			
Period	June	Quarter 2 to Date	April 1996 to Date
Mass	0.11	0.28	9,944.7

$$Liquid-Phase\ DRO\ Mass\ [lb] = \left(Conc. \left[\frac{\mu g}{L} \right] \right) \cdot \left(\frac{3.785\ L}{gal} \right) \cdot \left(\frac{1\ g}{1,000,000\ \mu g} \right) \cdot \left(\frac{1\ lb}{453.59\ g} \right) \cdot (Volume\ [gal])$$

Legend / Notes:

- 1 = Automatic GWETS shutdown.
- 2 = GWETS restarted.
- 3 = Collected monthly influent, intermediate, and effluent samples for laboratory analysis.
- 4 = GW-13 not pumping upon arrival and left off-line for troubleshooting.
- 5 = GW-13 discharge hose determined to have blockage that could not be cleared (line flushing and/or replacement work planned for early Quarter 3, 2017).
- 6 = GW-15 and GW-16 electrical conduit inadvertently damaged and will require repair. (i.e., only pump GW-2 operational through end of month/reporting period).

GWETS = Groundwater extraction and treatment system lb = Pounds
 µg/L - Micrograms per liter DRO = Diesel range organics

A = Hydrocarbon removal is calculated using analytical laboratory results for DRO (if not detected, half the detection limit is used) from sample collected on: 06/05/17 (laboratory report attached).

-- = Not applicable
 * = Operational values interpolated from chart recorder data or previous monitoring event.

Groundwater extraction wells on line this month: GW-2, GW-13, GW-15, GW-16

TABLE 3a
Soil Vapor Extraction System Operations Summary - April
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow ^A (scfm)	VES Manifold Vacuum (in. Hg)	Carbon Inlet Temperature (°F)	Laboratory Process Concentration (ppmv)	Field Process Concentration ^{B,C} (ppmv)	Field Effluent Concentration ^{B,C} (ppmv)	Cumulative Vapor-Phase GRO Removed ^D (lb)
04/01/17	Off line		43,784	NA	--	--	--	--	--	2,951,805
04/02/17	Off line		43,784	NA	--	--	--	--	--	2,951,805
04/03/17	Off line		43,784	NA	--	--	--	--	--	2,951,805
04/04/17	Technician	1	43,798	783	4	128	--	186	0.3	2,951,830
04/05/17	*		43,822	783	--	--	--	--	--	2,951,873
04/06/17	*		43,846	783	--	--	--	--	--	2,951,915
04/07/17	Technician		43,869	768	5	120	--	150	2.6	2,951,956
04/08/17	*		43,893	768	--	--	--	--	--	2,951,998
04/09/17	*		43,917	768	--	--	--	--	--	2,952,039
04/10/17	*		43,941	768	--	--	--	--	--	2,952,081
04/11/17	*		43,965	768	--	--	--	--	--	2,952,122
04/12/17	Technician	2	43,976	713	4	130	--	157	8.9	2,952,140
04/13/17	Off line		43,976	NA	--	--	--	--	--	2,952,140
04/14/17	Technician	3	43,990	725	4	129	--	177	0.0	2,952,162
04/15/17	*		44,014	725	--	--	--	--	--	2,952,202
04/16/17	*		44,038	725	--	--	--	--	--	2,952,241
04/17/17	Technician	4,5	44,062	729	5	134	--	138	0.0	2,952,281
04/18/17	*		44,086	729	--	--	--	--	--	2,952,321
04/19/17	Technician		44,110	708	4	128	--	129	0.0	2,952,359
04/20/17	*		44,134	708	--	--	--	--	--	2,952,398
04/21/17	Technician		44,158	796	4	132	--	131	0.0	2,952,442
04/22/17	*		44,182	796	--	--	--	--	--	2,952,486
04/23/17	*		44,206	796	--	--	--	--	--	2,952,529
04/24/17	Technician		44,230	782	4	120	--	149	0.0	2,952,572
04/25/17	*		44,254	782	--	--	--	--	--	2,952,615
04/26/17	Technician		44,278	765	4	120	--	140	0.0	2,952,657
04/27/17	*		44,302	765	--	--	--	--	--	2,952,699
04/28/17	Technician		44,326	773	4	118	--	159	0.0	2,952,741
04/29/17	*		44,350	773	--	--	--	--	--	2,952,784
04/30/17	*		44,374	773	--	--	--	--	--	2,952,826

Cumulative Mass TPHg Removed by the VES ^D (lb)			
Period	April	Quarter 2 to Date	April 1996 to Date
Mass	1,021	1,021	2,952,826

$$\text{Vapor-Phase TPHg Mass [lb]} = \left(\text{Conc.} \left[\frac{\mu\text{g}}{\text{L}} \right] \right) \cdot \left(\frac{28.32 \text{ L}}{\text{ft}^3} \right) \cdot \left(\frac{1 \text{ g}}{1,000,000 \mu\text{g}} \right) \cdot \left(\frac{1 \text{ lb}}{453.59 \text{ g}} \right) \cdot \left(\text{Flow [scfm]} \right) \cdot \left(\frac{60 \text{ min}}{\text{hr}} \right) \cdot \left(\text{OpTime [hrs]} \right)$$

Legend / Notes:

- 1 = VES restarted (off-line since 03/27/17) following completion of maintenance work.
- 2 = VES manually shut down in advance of carbon change out work.
- 3 = VES restarted following completion of carbon change out work.
- 4 = Measured individual well vapor concentrations with an OVA.
- 5 = Collected monthly influent, after GAC-1, after GAC-2, and effluent samples for laboratory analysis.
- = Not applicable or not measured

VES = Soil vapor extraction system in. Hg = Inches of mercury ppmv = Parts per million by volume
 scfm = Standard cubic feet per minute °F = Degrees Fahrenheit lb = Pounds

A = Reading from chart recorder.
 B = Concentrations obtained with a calibrated organic vapor analyzer (OVA).
 C = Concentrations correlated to laboratory data and expressed as hexane.
 D = Hydrocarbon removal is calculated using analytical laboratory result for GRO (if not detected, half the detection limit is used) from sample collected on: 04/17/17 (laboratory report attached).

* = Operational values interpolated from chart recorder data or previous monitoring event.

Vapor extraction wells on line this month: HW-1, HW-3, HW-5, HW-7

TABLE 3b
Soil Vapor Extraction System Operations Summary - May
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow ^A (scfm)	VES Manifold Vacuum (in. Hg)	Carbon Inlet Temperature (°F)	Laboratory Process Concentration (ppmv)	Field Process Concentration ^{B,C} (ppmv)	Field Effluent Concentration ^{B,C} (ppmv)	Cumulative Vapor-Phase GRO Removed ^D (lb)
05/01/17	Technician		44,398	775	4	128	--	153	1	2,952,869
05/02/17	*		44,422	775	--	--	--	--	--	2,952,911
05/03/17	Technician	1,2	44,446	791	4	128	120	141	1.0	2,952,947
05/04/17	*		44,470	791	--	--	--	--	--	2,952,984
05/05/17	Technician		44,494	785	4	122	--	140	6.4	2,953,020
05/06/17	*		44,518	785	--	--	--	--	--	2,953,056
05/07/17	*		44,542	785	--	--	--	--	--	2,953,092
05/08/17	Technician	3	44,556	778	4	122	--	138	9.2	2,953,112
05/09/17	Off line		44,556	NA	--	--	--	--	--	2,953,112
05/10/17	Technician	4	44,566	780	4	120	--	165	0.0	2,953,127
05/11/17	*		44,590	780	--	--	--	--	--	2,953,163
05/12/17	Technician		44,614	772	4	116	--	140	0.0	2,953,198
05/13/17	*		44,638	772	--	--	--	--	--	2,953,234
05/14/17	*		44,662	772	--	--	--	--	--	2,953,269
05/15/17	Technician		44,686	779	4	114	--	143	0.0	2,953,305
05/16/17	*		44,710	779	--	--	--	--	--	2,953,340
05/17/17	Technician		44,734	758	4	118	--	137	0.0	2,953,375
05/18/17	*		44,758	758	--	--	--	--	--	2,953,410
05/19/17	Technician		44,782	769	4	122	--	142	0.0	2,953,445
05/20/17	*		44,806	769	--	--	--	--	--	2,953,480
05/21/17	*		44,830	769	--	--	--	--	--	2,953,516
05/22/17	Technician		44,854	778	4	130	--	147	0.6	2,953,551
05/23/17	*		44,878	778	--	--	--	--	--	2,953,587
05/24/17	Technician		44,902	755	4	130	--	145	1.6	2,953,622
05/25/17	*		44,926	755	--	--	--	--	--	2,953,656
05/26/17	Technician	5	44,944	752	5	116	--	123	0.0	2,953,691
05/27/17	*		44,968	752	--	--	--	--	--	2,953,725
05/28/17	*		44,992	752	--	--	--	--	--	2,953,760
05/29/17	*		45,016	752	--	--	--	--	--	2,953,794
05/30/17	Technician		45,040	769	5	115	--	120	0.0	2,953,829
05/31/17	*		45,064	769	--	--	--	--	--	2,953,865

Cumulative Mass TPHg Removed by the VES ^A (lb)			
Period	May	Quarter 2 to Date	April 1996 to Date
Mass	1,039	2,059	2,953,865

$$Vapor-Phase\ TPHg\ Mass\ [lb] = \left(Conc. \left[\frac{\mu g}{L} \right] \right) \cdot \left(\frac{28.32\ L}{ft^3} \right) \cdot \left(\frac{1\ g}{1,000,000\ \mu g} \right) \cdot \left(\frac{1\ lb}{453.59\ g} \right) \cdot \left(Flow\ [scfm] \right) \cdot \left(\frac{60\ min}{hr} \right) \cdot \left(OpTime\ [hrs] \right)$$

Legend / Notes:

- 1 = Measured individual well vapor concentrations with an OVA.
- 2 = Collected monthly influent, after GAC-1, after GAC-2, and effluent samples for laboratory analysis.
- 3 = VES manually shut down in advance of carbon change out work.
- 4 = VES restarted following completion of carbon change out work.
- 5 = VES temporarily off-line for maintenance.
- = Not applicable or not measured

VES = Soil vapor extraction system in. Hg = Inches of mercury ppmv = Parts per million by volume
 scfm = Standard cubic feet per minute °F = Degrees Fahrenheit lb = Pounds

A = Reading from chart recorder.
 B = Concentrations obtained with a calibrated organic vapor analyzer (OVA).
 C = Concentrations correlated to laboratory data and expressed as hexane.
 D = Hydrocarbon removal is calculated using analytical laboratory results for GRO (if not detected, half the detection limit is used) from sample collected on: 05/03/17 (laboratory report attached).

* = Operational values interpolated from chart recorder data or previous monitoring event.

Vapor extraction wells on line this month: HW-1, HW-3, HW-5, HW-7

TABLE 3c
Soil Vapor Extraction System Operations Summary - June
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow ^A (scfm)	VES Manifold Vacuum (in. Hg)	Carbon Inlet Temperature (°F)	Laboratory Process Concentration (ppmv)	Field Process Concentration ^{B,C} (ppmv)	Field Effluent Concentration ^{B,C} (ppmv)	Cumulative Vapor-Phase GRO Removed ^D (lb)
06/01/17	Technician		45,088	778	4	113	--	118	0	2,953,900
06/02/17	*		45,112	778	--	--	--	--	--	2,953,936
06/03/17	*		45,136	778	--	--	--	--	--	2,953,972
06/04/17	Auto Shutdown	1	45,143	778	--	--	--	--	--	2,953,982
06/05/17	Technician	2,3,4	45,158	728	6	106	110	136	0.0	2,953,999
06/06/17	*		45,182	728	--	--	--	--	--	2,954,028
06/07/17	Technician		45,206	736	6	126	--	127	1.5	2,954,056
06/08/17	*		45,230	736	--	--	--	--	--	2,954,084
06/09/17	Technician		45,247	739	6	123	--	135	5.1	2,954,113
06/10/17	*		45,271	739	--	--	--	--	--	2,954,142
06/11/17	*		45,295	739	--	--	--	--	--	2,954,170
06/12/17	Technician	5	45,319	733	5	110	--	136	0.0	2,954,198
06/13/17	*		45,343	733	--	--	--	--	--	2,954,227
06/14/17	Technician		45,367	745	6	138	--	135	0.0	2,954,256
06/15/17	*		45,391	745	--	--	--	--	--	2,954,284
06/16/17	Technician		45,415	778	6	139	--	138	0.0	2,954,315
06/17/17	*		45,439	778	--	--	--	--	--	2,954,345
06/18/17	*		45,463	778	--	--	--	--	--	2,954,375
06/19/17	Technician		45,487	741	6	120	--	139	0	2,954,403
06/20/17	*		45,511	741	--	--	--	--	--	2,954,432
06/21/17	Technician		45,535	778	6	118	--	130	0.0	2,954,462
06/22/17	*		45,559	778	--	--	--	--	--	2,954,492
06/23/17	Technician		45,583	785	6	119	--	121	0.0	2,954,522
06/24/17	*		45,607	785	--	--	--	--	--	2,954,553
06/25/17	*		45,631	785	--	--	--	--	--	2,954,583
06/26/17	Technician		45,655	791	6	118	--	128	0	2,954,614
06/27/17	Technician	6	45,679	791	--	--	--	--	--	2,954,644
06/28/17	Technician		45,703	758	5	128	--	278	1.4	2,954,674
06/29/17	*		45,727	758	--	--	--	--	--	2,954,703
06/30/17	Technician	7	45,740	769	5	130	--	318	6.4	2,954,720

Cumulative Mass TPHg Removed by the VES ^A (lb)			
Period	June	Quarter 2 to Date	April 1996 to Date
Mass	855	2,915	2,954,720

$$\text{Vapor-Phase TPHg Mass [lb]} = \left(\text{Conc.} \left[\frac{\mu\text{g}}{\text{L}} \right] \right) \cdot \left(\frac{28.32 \text{ L}}{\text{ft}^3} \right) \cdot \left(\frac{1 \text{ g}}{1,000,000 \mu\text{g}} \right) \cdot \left(\frac{1 \text{ lb}}{453.59 \text{ g}} \right) \cdot (\text{Flow [scfm]}) \cdot \left(\frac{60 \text{ min}}{\text{hr}} \right) \cdot (\text{OpTime [hrs]})$$

Legend / Notes:

- 1 = Automatic VES shut down due to power outage.
- 2 = VES restarted.
- 3 = Measured individual well vapor concentrations with an OVA.
- 4 = Collected monthly influent, after GAC-1, after GAC-2, and effluent samples for laboratory analysis.
- 5 = VES temporarily off-line for maintenance.
- 6 = Collected influent and individual well vapor samples for laboratory analysis, including recently installed wells VEW-38, VEW-39 and VEW-40 (see Table 1) which were also tied into the VES.
- 7 = VES manually shut down in advance of carbon change out work.

Vapor extraction wells on line this month: HW-1, HW-3, HW-5, VEW-38, VEW-39, VEW-40

VES = Soil vapor extraction system in. Hg = Inches of mercury ppmv = Parts per million by volume
 scfm = Standard cubic feet per minute °F = Degrees Fahrenheit lb = Pounds

A = Reading from chart recorder.
 B = Concentrations obtained with a calibrated organic vapor analyzer (OVA).
 C = Concentrations correlated to laboratory data and expressed as hexane.
 D = Hydrocarbon removal is calculated using analytical laboratory results for GRO (if not detected, half the detection limit is used) from samples collected on: 06/05/17 and 06/27/17 (laboratory reports attached).

-- = Not applicable or not measured
 * = Operational values interpolated from chart recorder data or previous monitoring event.

TABLE 4
Historical Summary of Analytical Sampling Results - Influent Vapor
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	VES Wells On Line	Laboratory Analysis Methods	GRO	GRO		GRO as Hexane		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		Total Xylenes		MTBE	
				Field OVA Reading	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
04/29/11		--	TO-3 & 8260B	--	--	--	17	60	0.021	0.067	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
05/27/11		--	TO-3 & 8260B	--	--	--	13	46	0.021	0.067	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
06/30/11		--	TO-3 & 8260B	--	--	--	11	39	0.018	0.057	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
07/27/11		--	TO-3 & 8260B	--	--	--	8.6	31	0.013	0.042	<0.0050	<0.019	0.012	0.052	--	--	--	--	0.013	0.056	<0.010	<0.036
08/26/11		--	TO-3 & 8260B	--	--	--	7.8	28	0.012	0.038	<0.0050	<0.019	0.020	0.087	--	--	--	--	0.0264	0.115	<0.010	<0.036
09/30/11		--	TO-3 & 8260B	--	--	--	6.9	25	0.012	0.038	<0.0050	<0.019	0.011	0.048	--	--	--	--	0.011	0.048	<0.010	<0.036
10/28/11		--	TO-3 & 8260B	--	--	--	5.4	19	0.011	0.035	<0.0050	<0.019	0.015	0.065	--	--	--	--	0.028	0.12	<0.010	<0.036
11/30/11		--	TO-3 & 8260B	--	--	--	8.5	30	0.012	0.038	<0.0050	<0.019	0.0067	0.029	--	--	--	--	0.010	0.043	<0.010	<0.036
12/28/11		--	TO-3 & 8260B	--	--	--	8.6	31	0.024	0.077	0.0075	0.028	0.0096	0.042	--	--	--	--	0.022	0.095	<0.010	<0.036
01/26/12		--	TO-3 & 8260B	--	--	--	3.7	13	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
02/24/12		--	TO-3 & 8260B	--	--	--	4.6	16	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
03/28/12		--	TO-3 & 8260B	--	--	--	4.1	15	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
04/27/12		--	TO-3 & 8260B	--	--	--	3.6	13	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
05/31/12		--	TO-3 & 8260B	--	--	--	6.5	23	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
06/28/12		--	TO-3 & 8260B	--	--	--	5.3	19	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
07/26/12		--	TO-3 & 8260B	4.1	--	--	4.1	15	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
08/31/12		--	TO-3 & 8260B	1.5	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
09/27/12		--	TO-3 & 8260B	1.5	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
10/30/12		--	TO-3 & 8260B	1.5	--	--	6.1	22	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
11/26/12		--	TO-3 & 8260B	4.2	--	--	4.2	15	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
12/19/12		--	TO-3 & 8260B	3.2	--	--	3.2	11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
01/31/13		--	TO-3 & 8260B	4.6	--	--	4.6	16	--	--	--	--	--	--	--	--	--	--	--	--	--	--
02/27/13		--	TO-3 & 8260B	4.5	--	--	4.5	16	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
03/28/13		--	TO-3 & 8260B	6.7	--	--	6.7	24	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
04/22/13		--	TO-3 & 8260B	5.4	--	--	5.4	19	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
07/29/13		--	TO-3 & 8260B	1.5	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
08/12/13		--	TO-3 & 8260B	--	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
10/30/13		--	TO-3 & 8260B	3.0	--	--	3.0	11	0.014	0.045	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
11/27/13		--	TO-3 & 8260B	1.5	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	0.015	0.065	<0.010	<0.036
12/19/13		--	TO-3 & 8260B	1.5	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
03/21/14		--	TO-3 & 8260B	1.5	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	<0.0050	<0.022	<0.010	<0.043	<0.015	<0.065	<0.010	<0.036
04/23/14		VEW-32, VEW-33, VEW-34, VEW-35, VEW-36 VEW-37, HW-1, HW-3, HW-5, HW-7	TO-3 & 8260B	1.9	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	<0.0050	<0.022	<0.010	<0.043	<0.015	<0.065	<0.010	<0.036
05/16/14	1	VEW-32, VEW-33, VEW-34, VEW-35, VEW-36 VEW-37, HW-1, HW-3, HW-5, HW-7	TO-3 & 8260B	1.1	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	<0.0050	<0.022	<0.010	<0.043	<0.015	<0.065	<0.010	<0.036
07/09/14	2	VEW-32, VEW-33, VEW-34, VEW-35, VEW-36 VEW-37, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	24	6.1	25	7.0	25	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
08/13/14		VEW-32, VEW-33, VEW-34, VEW-35, VEW-36 VEW-37, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	27	7.3	30	8.4	30	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0

TABLE 4
Historical Summary of Analytical Sampling Results - Influent Vapor
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	VES Wells On Line	Laboratory Analysis Methods	GRO	GRO		GRO as Hexane		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		Total Xylenes		MTBE	
				Field OVA Reading	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
09/17/14	3	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	5.6	<4.9	<20	<5.6	<20	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
10/23/14	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	1.2	<4.9	<20	<5.6	<20	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
11/17/14	5	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	1.3	<4.9	<20	<5.6	<20	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
12/17/14		VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	0.5	<4.9	<20	<5.6	<20	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
01/14/15		VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	1.5	<4.9	<20	<5.6	<20	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
02/20/15		VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	1.5	<4.9	<20	<5.6	<20	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
03/27/15		VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	3.4	<4.9	<20	<5.6	<20	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
04/27/15	6	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	132	140	580	160	580	0.63	2.0	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	0.23	1.0	0.23	1.0	<0.6	<2.0
05/29/15	6,7	--	8015M & 8260M	103	83	340	97	340	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
06/03/15	6,8	VEW-32, VEW-33, VEW-34	8015M & 8260M	47	32	130	37	130	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
07/09/15	6	VEW-32, VEW-33, VEW-34	8015M & 8260M	162	150	600	170	600	<0.16	<0.50	0.15	0.58	<0.12	<0.50	0.67	2.9	0.71	3.1	1.38	6.0	<0.55	<2.0
07/15/15	6,9	VEW-32, VEW-33, VEW-34	8015M & 8260M	147	170	700	200	700	<0.16	<0.50	0.53	2.0	0.18	0.78	0.99	4.3	1.5	6.3	2.49	10.6	<0.55	<2.0
07/21/15	6,9	VEW-32, VEW-33, VEW-34	8015M & 8260M	259	160	640	180	640	<0.16	<0.50	0.25	0.94	<0.12	<0.50	0.71	3.1	0.62	2.7	1.33	5.8	<0.55	<2.0
07/29/15	6,9	VEW-32, VEW-33, VEW-34	8015M & 8260M	129	170	710	200	710	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	0.32	1.4	0.25	1.1	0.57	2.5	<0.55	<2.0
08/17/15	6,10	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5	8015M & 8260M	135	130	550	160	550	0.75	2.4	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	0.28	1.2	0.28	1.2	<0.55	<2.0
09/09/15	6,11	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	202	190	760	220	760	0.30	0.95	0.74	2.8	0.76	3.3	0.69	3.0	2.5	11	3.19	14	<0.55	<2.0
09/22/15	6,9	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	225	150	600	170	600	0.27	0.85	0.37	1.4	<0.12	<0.50	0.71	3.1	0.58	2.5	1.29	5.6	<0.55	<2.0
09/25/15	6,9	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	258	220	890	250	890	0.41	1.3	0.64	2.4	0.17	0.75	0.74	3.2	0.85	3.7	1.59	6.9	<0.55	<2.0
10/07/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	256	230	940	270	940	0.69	2.2	0.82	3.1	0.22	0.97	0.41	1.8	1.1	4.6	1.51	6.4	<0.55	<2.0
11/04/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	380	290	1,200	340	1,200	0.88	2.8	1.6	5.9	0.25	1.1	1.4	6.2	2.1	9.0	3.5	15	<0.55	<2.0
12/07/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	346	320	1,300	370	1,300	0.69	2.2	1.9	7.0	0.15	0.64	0.76	3.3	0.94	4.1	1.7	7.4	<0.55	<2.0
01/13/16	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	141	110	470	130	470	0.16	0.52	0.29	1.1	<0.12	<0.50	0.22	0.95	0.30	1.3	0.52	2.3	<0.55	<2.0
02/10/16	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	124	98	400	110	400	0.59	1.9	0.66	2.5	0.23	1.0	0.39	1.7	0.6	2.6	0.99	4.3	<0.55	<2.0
03/02/16	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	92	54	220	63	220	<0.16	<0.50	0.25	0.93	<0.12	<0.50	0.14	0.62	<0.23	<1.0	0.14	0.62	<0.55	<2.0
04/06/16	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	124	120	490	140	490	0.38	1.2	0.29	1.1	<0.12	<0.50	0.17	0.72	<0.23	<1.0	0.17	0.72	<0.55	<2.0
05/04/16	6,7	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	107	100	410	120	410	0.31	1.0	0.20	0.77	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
06/06/16	6,12	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	73	59	240	68	240	0.59	1.9	0.50	1.9	<0.12	<0.50	0.41	1.8	0.51	2.2	0.92	4.0	<0.55	<2.0
07/06/16	6,13	HW-1, HW-3, HW-5	8015M & 8260M	49	37	150	43	150	0.41	1.3	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
09/01/16	6,13	HW-1, HW-3, HW-5	8015M & 8260M	46	18	75	21	75	0.41	1.3	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
10/12/16	6,13,14	HW-1, HW-3, HW-5	8015M & 8260M	43	19	79	22	79	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
11/01/16	6,13	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	114	81	330	94	330	0.53	1.7	0.23	0.86	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
12/05/16	6,13	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	96	86	350	100	350	0.31	1.0	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
01/09/17	6,13	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	86	68	280	80	280	0.63	2.0	0.24	0.89	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
02/06/17	6,13	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	93	66	270	77	270	0.44	1.4	0.19	0.72	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
03/15/17	6,13	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	96	76	310	88	310	0.53	1.7	0.24	0.9	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0

TABLE 4
Historical Summary of Analytical Sampling Results - Influent Vapor
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	VES Wells On Line	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		GRO as Hexane		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		Total Xylenes		MTBE	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
03/27/17	15,16	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	193	150	600	170	600	0.91	2.9	0.42	1.6	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
04/17/17	15	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	138	150	610	170	610	1.1	3.5	0.53	2.0	<0.12	<0.50	<0.12	<0.50	0.23	1.0	0.23	1.0	<0.55	<2.0
05/03/17	15	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	141	120	510	140	510	0.69	2.2	0.58	2.2	0.12	0.51	<0.12	<0.50	0.35	1.5	0.35	1.5	<0.55	<2.0
06/05/17	15	HW-1, HW-3, HW-5	8015M & 8260M	136	110	430	120	430	0.81	2.6	0.40	1.5	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
06/27/17	15,17	HW-1, HW-3, HW-5, VEW-38, VEW-39, VEW-40	8015M & 8260M	--	140	560	160	560	0.38	1.2	0.20	0.75	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0

Legend / Notes:

Data collected prior to April 2014 not verified for completeness nor accuracy.
 Influent vapor sample inadvertently not collected during August 2016.

VES = Soil vapor extraction system

GRO = Gasoline range organics

MTBE = Methyl tertiary-butyl ether

OVA = Organic Vapor Analyzer (calibrated or correlated to Hexane)

ppmv = Parts per million by volume

µg/L = Micrograms per liter

<1 = Not detected at or above the Method Reporting Limit (MRL) shown.

-- = Not available or not analyzed

1 = VES manually shut down on 05/29/14.

2 = VES restarted.

3 = Closed vapor extraction wells VEW-35, VEW-36, and VEW-37 on 08/27/14 based on field readings (see Table 6 for details).

4 = VES manually shut down.

5 = VES restarted on 11/03/14.

6 = Select soil biopiles also on line (see Tables 3a through 3c for details).

7 = Closed all vapor extraction wells from 05/07/15 to 06/03/15, and 05/25/16 to 06/17/16, respectively, to focus extraction efforts on soil biopiles.

8 = Opened vapor extraction wells VEW-32, VEW-33 and VEW-34.

9 = Additional sample collected for laboratory analysis as part of field instrument correlation study.

10 = Opened vapor extraction wells HW-1, HW-3 and HW-5 on 08/10/15 based on field PID readings (see Table 6 for details).

11 = Closed vapor extraction well VEW-34 on 08/19/15 based on low to non-detectable lab results (see Table 7 for details).

12 = Opened vapor extraction wells HW-1, HW-3 and HW-5 on 06/17/16.

13 = Valves associated with vapor extraction wells HW-1, HW-3, HW-5 and/or HW-7 each set to a partially open position while leaving all other wells closed to focus extraction efforts on soil biopiles.

14 = Resumed vapor extraction from well HW-7 based on field PID readings (see Table 6 for details).

15 = Valves associated with vapor extraction wells HW-1, HW-3, HW-5 and/or HW-7 each set to optimize system in accordance with recent field readings and/or lab data since completion of ex-situ remediation project on 03/20/17.

16 = Additional sample collected for laboratory analysis after disconnecting all soil biopiles and optimizing system on 03/20/17 (i.e., with extraction efforts again focused on in-situ remediation following completion of ex-situ remediation project).

17 = Wells VEW-38, VEW-39 and VEW-40 tied into the system during late June 2017 following installation per SGI's March 14, 2017 *Well Replacement Report and Work Plan*.

TABLE 5
Historical Summary of Analytical Sampling Results - Influent Groundwater
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	GWETS Wells On Line	Laboratory Analysis Methods	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylene	TBA	MTBE	DIPE	ETBE	TAME
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
04/22/08		--	--	--	--	71	25	17	42	30	14	4.6	<2.0	<2.0	<2.0
05/01/08		--	--	810	--	--	--	--	--	--	--	--	--	--	--
05/16/08		--	--	760	--	--	--	--	--	--	--	--	--	--	--
06/12/08		--	--	--	--	<0.50	<0.50	<0.50	<0.50	<0.50	25	7.7	<2.0	<2.0	<2.0
07/19/08		--	--	170	<100	27	0.77	7.0	13	7.9	<10	3.9	<2.0	<2.0	<2.0
09/03/08		--	--	--	--	--	--	--	--	--	<10	--	--	--	--
09/08/08		--	--	--	--	27	0.99	8.3	13	8.2	<10	3.1	<2.0	<2.0	<2.0
09/15/08		--	--	--	--	36	0.81	8.5	12	6.8	<10	3.8	<2.0	<2.0	<2.0
11/13/08		--	--	--	--	27	<0.50	2.0	12	5.6	<10	<0.50	<2.0	<2.0	<2.0
11/26/08		--	--	--	--	<0.50	<0.50	<0.50	1.3	0.61	16	5.6	<2.0	<2.0	<2.0
12/13/08		--	--	--	--	<0.50	<0.50	0.56	1.1	0.54	19	7.0	<2.0	<2.0	<2.0
01/09/09		--	--	--	--	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<2.0	<2.0	<2.0
03/05/09		--	--	<100	--	21	<0.50	2.5	7.2	3.1	12	3.1	<2.0	<2.0	<2.0
03/18/09		--	--	200	170	21	<0.50	2.9	7.0	4.5	13	3.3	<2.0	<2.0	<2.0
05/15/09		--	--	<100	--	--	--	--	--	--	--	--	--	--	--
06/04/09		--	--	190	--	26	<0.50	3.3	10	6.6	<10	4.8	<2.0	<2.0	<2.0
06/24/09		--	--	--	--	28	<0.50	2.5	7.6	4.2	12	4.4	<2.0	<2.0	<2.0
05/28/09		--	--	170	--	27	<0.50	2.6	7.9	4.5	<10	3.6	<2.0	<2.0	<2.0
11/19/09		--	--	<100	--	15	<0.50	1.3	5.8	2.9	5.6	2.3	1.2	<2.0	<2.0
10/26/10		--	--	--	--	20	<0.50	1.6	7.4	2.1	8.0	2.9	1.1	<2.0	<2.0
06/01/11		--	--	90	--	--	--	--	--	--	--	--	--	--	--
07/14/11		--	--	--	--	13	<0.50	2.3	6.2	3.0	6.7	1.6	<2.0	<2.0	<2.0
09/13/11		--	--	--	--	5.0	<0.50	0.37	3.4	0.99	<10	1.3	<2.0	<2.0	<2.0
09/22/11		--	--	--	--	5.5	<0.50	0.92	7.2	1.6	5.6	1.1	<2.0	<2.0	<2.0
10/19/11		--	--	--	--	8.2	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<2.0	<2.0	<2.0
01/20/12		--	--	--	--	14	<0.50	2.8	7.8	1.2	16	1.3	0.42	<2.0	<2.0
02/03/12		--	--	120	340	--	--	--	--	--	--	--	--	--	--
02/17/12		--	--	--	--	10	<0.50	1.5	7.4	1.2	15	1.2	0.39	<2.0	<2.0
02/24/12		--	--	180	--	26	<0.50	1.0	7.0	1.2	<10	1.2	0.41	<2.0	<2.0

TABLE 5
Historical Summary of Analytical Sampling Results - Influent Groundwater
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	GWETS Wells On Line	Laboratory Analysis Methods	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylene	TBA	MTBE	DIPE	ETBE	TAME
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
03/02/12		--	--	--	--	23	<0.50	1.4	11	2.4	8.7	1.4	0.47	<2.0	<2.0
03/06/12		--	--	--	--	28	<0.50	1.0	9.0	1.7	13	1.1	0.37	<2.0	<2.0
06/15/12		--	--	--	--	39	13	17	88	26	<10	1.3	0.52	<2.0	<2.0
08/31/12		--	--	820	940	--	--	--	--	--	--	--	--	--	--
09/27/12		--	--	5,300	3,800	--	--	--	--	--	--	--	--	--	--
10/23/12		--	--	--	--	67	60	110	460	140	<10	<0.50	<2.0	<2.0	<2.0
01/31/13		--	--	3,600	--	--	--	--	--	--	--	--	--	--	--
05/01/13		--	--	6,300	5,500	20	4.7	8.0	41	14	4.8	0.56	<2.0	<2.0	<2.0
07/12/13		--	--	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<2.0	<2.0	<2.0
08/20/13		--	--	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<2.0	<2.0	<2.0
12/19/13		--	--	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<2.0	<2.0	<2.0
02/07/14		--	--	1,500	2,300	--	--	--	--	--	--	--	--	--	--
03/21/14		--	--	--	--	61	5.1	23	150	45	<10	0.87	<2.0	<2.0	<2.0
05/29/14	1	--	8015M & 8260B	--	--	29	1.0	30	180	45	<10	1.0	<2.0	<2.0	<2.0
07/09/14	2	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	720	1,800	82	3.8	27	110	31	<7.0	<0.40	<0.50	<0.40	<0.30
08/13/14		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	150	1,500	57	3.7	30	130	36	<7.0	0.77	<0.50	<0.40	<0.30
09/17/14		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	800	3,500	23	0.73	20	170	40	<7.0	0.83	<0.50	<0.40	<0.30
10/20/14		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	560	3,600	31	2.2	40	240	54	<7.0	0.6	<0.50	<0.40	<0.30
11/17/14	3,4	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	260	1,400	21	0.71	10	62	18	<7.0	<0.40	<0.50	<0.40	<0.30
12/17/14	4	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	190	880	23	0.66	8.8	48	14	<7.0	<0.40	<0.50	<0.40	<0.30
01/14/15	1,2	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	4,600	3,800	150	2.8	29	130	37	<7.0	<0.40	<0.50	<0.40	<0.30
02/20/15	2,4	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	2,500	8,100	230	9.8	220	880	220	<7.0	0.45	<0.50	<0.40	<0.30
03/27/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	620	980	9.9	<0.30	2.7	18	5.9	<7.0	1.0	<0.50	<0.40	<0.30
05/11/15	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	330	16	5.2	5.9	37	14	<7.0	0.58 J	<0.50	<0.40	<0.30
06/03/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	150	340	20	6.6	12	22	25	<7.0	0.52 J	<0.50	<0.40	<0.30
07/09/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	180	610	<0.20	<0.30	<0.20	<0.40	<0.30	<7.0	0.62 J	<0.50	<0.40	<0.30
08/17/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	430	<40	<0.20	<0.30	<0.20	0.95 J	<0.30	<7.0	0.71 J	<0.50	<0.40	<0.30
09/03/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	86 J	570	5.9	0.37 J	3.7	10	14	<7.0	0.45 J	<0.50	<0.40	<0.30
10/05/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	500	7.3	<0.30	8.7	35	15	<7.0	0.73 J	<0.50	<0.40	<0.30

TABLE 5
Historical Summary of Analytical Sampling Results - Influent Groundwater
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	GWETS Wells On Line	Laboratory Analysis Methods	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylene	TBA	MTBE	DIPE	ETBE	TAME
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
11/02/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	420	3,400	5.1	<0.30	17	130	22	<7.0	0.85 J	<0.50	<0.40	<0.30
12/07/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	710	3,800	0.70	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
01/12/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	2,000	510	14	<0.30	3.6	25	7.0	<7.0	<0.40	<0.50	<0.40	<0.30
02/01/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	72 J	180	13	<0.30	0.53	2.7	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
03/14/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	270	1,100	0.91	<0.30	<0.20	1.6	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
04/04/16	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	76 J	100	0.99	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
05/04/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	170	470	<0.20	<0.30	<0.20	1.3	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
06/01/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	280	75 J	4.9	<0.30	<0.20	<0.40	<0.30	<7.0	0.43 J	<0.50	<0.40	<0.30
07/11/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	330	<40	4.7	<0.30	<0.20	<0.40	<0.30	<7.0	0.79 J	<0.50	<0.40	<0.30
08/01/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	3.7	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
09/01/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	2.7	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
10/12/16	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	230	<40	4.5	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
11/01/16	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	120	52 J	3.1	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
12/05/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	450	51 J	<0.20	<0.30	<0.20	<0.40	<0.30	<7.0	0.60 J	<0.50	<0.40	<0.30
01/09/17		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	150	<40	4.4	<0.30	<0.20	<0.40	<0.30	<7.0	0.58 J	<0.50	<0.40	<0.30
02/06/17	6	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	110	<40	3.5	<0.30	0.41 J	0.60 J	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
03/15/17	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	68 J	<40	4.3	<0.30	<0.20	<0.40	<0.30	<7.0	0.60 J	<0.50	<0.40	<0.30
04/05/17	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	74 J	<40	8.4	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
05/03/17		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	72 J	<40	4.3	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
06/05/17		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	62 J	<40	5.0	<0.30	<0.20	0.50 J	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30

Legend / Notes:

Data collected prior to July 2014 not verified for completeness nor accuracy.

GWETS = Groundwater extraction and treatment system

TPHd = Total petroleum hydrocarbons as diesel

TPHg = Total petroleum hydrocarbons as gasoline

TBA = tertiary-Butyl alcohol

MTBE = Methyl tertiary-butyl ether

DIPE = Diisopropyl ether

ETBE = Ethyl tertiary-butyl ether

TAME = tertiary-Amyl-methyl ether

µg/L = Micrograms per liter

-- = Not available or not analyzed

<1 = Not detected at or above the Method Reporting Limit (MRL) shown. Beginning 07/09/14, not detected at or above the Method Detection Limit (MDL) shown.

J = Estimated value. Analyte detected at a level less than the MRL and greater than or equal to the MDL.

1 = GWETS manually shut down.

2 = GWETS restarted on 07/02/14, 01/13/15 and 02/25/15.

3 = GWETS manually shut down on 11/11/14.

4 = GWETS temporarily restarted but left off-line upon departure.

5 = GWETS manually shut down on 04/13/15, 05/06/15, 04/04/16, 09/26/16, 11/07/16, 03/08/17 and 04/17/17, and restarted on 04/27/15, 05/08/15, 04/28/16, 10/12/16, 11/23/16, 03/15/17 and 4/25/17, respectively.

6 = GWETS restarted following an automatic shut down on 02/04/17.

TABLE 6
Historical Summary of Field Sampling Readings - Individual Well Vapor
DFSP, Norwalk
15306 Norwalk Blvd., Norwalk, CA

Date	Notes	VES Wells On Line	Well GRO Concentration (ppmv) / Screen Interval in Feet Below Grade									
			HW-1	HW-3	HW-5	HW-7	VEW-32	VEW-33	VEW-34	VEW-35	VEW-36	VEW-37
			25	25	25	25	10 - 25	10 - 25	10 - 25	10 - 25	10 - 25	10 - 25
07/09/14	1	VEW-32, VEW-33, VEW-34, VEW-35, VEW-36, VEW-37, HW-1, HW-3, HW-5, HW-7	69	4,176	140	20	154	10	4.2	5.5	6.4	20
07/18/14		VEW-32, VEW-33, VEW-34, VEW-35, VEW-36, VEW-37, HW-1, HW-3, HW-5, HW-7	74	15,000	4,000	21	134	5.6	3.3	2.1	4.1	18
08/27/14	2	VEW-32, VEW-33, VEW-34, VEW-35, VEW-36, VEW-37, HW-1, HW-3, HW-5, HW-7	0.8	4.5	3.6	0.1	6.3	0.4	0.4	0.2	0	0
08/27/14	3	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	2.1	146	2.5	0.3	174	0.2	0	--	--	--
10/23/14	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	3.3	1.8	2.9	20	191	22	8.0	28	9.1	151
12/17/14	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	0	0	0	0.2	62	37	2.0	15	24	11
03/30/15	4,5	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	24	382	62	1.8	2.5	0.1	0.3	4.8	20	1.0
04/02/15	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	400	370	270	34	25	4.1	0	0	0	0
04/06/15	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	825	800	835	160	171	5.7	3.0	0	0	0
04/08/15	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	800	580	600	315	195	35	25	0	0	0
04/15/15	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	680	585	545	297	273	223	87	0	0	0
04/24/15	6	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	1,900	1,233	533	125	--	--	--	--	--	--
04/27/15	4,6	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	1,455	810	400	138	210	324	115	4.8	5.7	2.4
06/08/15	6,7	VEW-32, VEW-33, VEW-34	--	--	--	--	180	130	40	--	--	--
06/12/15	6	VEW-32, VEW-33, VEW-34	--	--	--	--	194	126	80	--	--	--
06/15/15	6	VEW-32, VEW-33, VEW-34	--	--	--	--	158	77	39	--	--	--
06/26/15	6	VEW-32, VEW-33, VEW-34	--	--	--	--	123	104	20	--	--	--
07/16/15	6	VEW-32, VEW-33, VEW-34	--	--	--	--	256	147	17	--	--	--
08/10/15	4,6,8	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5	1,947	732	676	28	456	334	63	16	2.2	3.9
08/20/15	6,9	VEW-32, VEW-33, HW-1, HW-3, HW-5	1,792	1,526	1,283	--	530	329	--	--	--	--
09/08/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	1,914	1,811	839	--	395	162	--	--	--	--
09/16/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	1,333	1,142	756	--	266	184	--	--	--	--
10/09/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	854	807	462	--	343	258	--	--	--	--
11/04/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	605	500	372	--	401	184	--	--	--	--
12/07/15	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	880	760	590	--	327	246	88	22	12	14

TABLE 6
Historical Summary of Field Sampling Readings - Individual Well Vapor
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Notes	VES Wells On Line	Well GRO Concentration (ppmv) / Screen Interval in Feet Below Grade									
			HW-1	HW-3	HW-5	HW-7	VEW-32	VEW-33	VEW-34	VEW-35	VEW-36	VEW-37
			25	25	25	25	10 - 25	10 - 25	10 - 25	10 - 25	10 - 25	10 - 25
01/13/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	640	390	415	--	220	260	72	34	22	17
02/08/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	520	240	300	--	160	220	55	42	28	11
03/02/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	400	180	360	--	120	240	47	31	32	15
04/06/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	420	220	260	--	60	380	29	22	18	12
05/04/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	400	180	240	--	90	340	36	18	25	19
06/17/16	6	HW-1, HW-3, HW-5	740	330	470	--	--	--	--	--	--	--
07/06/16	6,10	HW-1, HW-3, HW-5	480	220	340	--	--	--	--	--	--	--
08/05/16	6	HW-1, HW-3, HW-5	240	230	190	3.6	20	140	11	9.0	34	8.3
09/01/16	6,10	HW-1, HW-3, HW-5	280	260	220	--	--	--	--	--	--	--
10/20/16	4,6,10,11	HW-1, HW-3, HW-5, HW-7	200	280	240	140	32	80	9.1	7.3	30	6.4
11/01/16	6,10	HW-1, HW-3, HW-5, HW-7	160	260	180	120	--	--	--	--	--	--
12/05/16	4,6,10	HW-1, HW-3, HW-5, HW-7	120	240	200	100	20	60	17	8.8	20	7.1
01/09/17	6,10	HW-1, HW-3, HW-5, HW-7	80	200	180	17	--	--	--	--	--	--
02/06/17	4,6,10	HW-1, HW-3, HW-5, HW-7	100	180	160	13	12	45	11	6.1	14	5.4
03/20/17	12	HW-1, HW-3, HW-5, HW-7	110	160	120	12	--	--	--	--	--	--
04/17/17		HW-1, HW-3, HW-5, HW-7	120	220	160	10	--	--	--	--	--	--
05/03/17		HW-1, HW-3, HW-5, HW-7	100	260	140	19	15	33	17	8.1	19	6.7
06/05/17		HW-1, HW-3, HW-5	107	211	82	15	10	14	8	7.1	12	4.1

Legend / Notes:

GRO = Gasoline range organics ppmv = Parts per million by volume OVA = Organic Vapor Analyzer (calibrated or correlated to Hexane) -- = Not measured

Concentrations measured using calibrated field OVA.

1 = Initial readings on system restart (off line since manually shut down on 05/29/14).

2 = Readings prior to well optimization.

3 = Readings following well optimization (closed wells VEW-35, VEW-36 and VEW-37 based on field OVA readings).

4 = Offline wells temporarily opened for monitoring, then returned to closed position.

5 = Readings collected following slightly opening well field valve to vapor extraction system.

6 = Select soil biopiles also online (see Tables 3a through 3c for details).

7 = Closed select vapor wells to focus extraction efforts on soil biopiles.

8 = Opened vapor extraction wells HW-1, HW-3 and HW-5 based on field OVA readings.

9 = Closed vapor extraction well VEW-34 on 8/19/15 based on low to non-detectable lab results (see Table 7 for details).

10 = Valved down vapor extraction wells HW-1, HW-3 and/or HW-5 while leaving all other wells closed to focus extraction efforts on soil biopiles.

11 = Opened vapor extraction well HW-7 based on field OVA reading.

12 = Ex-situ remediation project completed/all soil biopiles disconnected and well valves subsequently set to optimize system in accordance with recent field OVA readings and/or lab data.

TABLE 7
Historical Summary of Analytical Sampling Results - Individual Well Vapor
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Well ID	Sample Date	Notes	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		MTBE		
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	
HW-1	07/09/14	1	8015M & 8260M	69	23	96	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0	
	10/23/14			3.3	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6
	04/27/15	1,455		830	3,400	1.1	3.5	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	08/10/15	1,947		2,700	11,000	1.0	3.3	<0.13	<0.50	0.25	1.1	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	02/08/16	520		440	1,800	0.88	2.8	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	04/06/16	420		340	1,400	1.0	3.2	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	01/18/17	2		80	88	310	0.59	1.9	0.18	0.67	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
HW-3	07/09/14	1		4,176	2,055	8,400	3.1	10	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0	
	10/23/14			1.8	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0	
	04/27/15	810		590	2,400	3.4	11	0.69	2.6	0.32	1.4	0.20	0.88	1.2	5.0	<0.55	<2.0		
	08/10/15	732		950	3,900	6.3	20	0.34	1.3	0.64	2.8	0.30	1.30	2.3	9.8	<0.55	<2.0		
	02/08/16	240		190	780	1.2	3.8	0.37	1.4	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	04/06/16	220		170	710	1.4	4.4	0.53	2.0	<0.12	<0.50	<0.12	<0.50	0.28	1.2	<0.55	<2.0		
	08/08/16	230		170	710	2.0	6.5	0.56	2.1	<0.12	<0.50	<0.12	<0.50	0.32	1.4	<0.55	<2.0		
	01/18/17	2	200	110	370	2.0	6.5	0.82	3.1	0.12	0.5	0.12	0.51	0.35	1.5	<0.55	<2.0		
	05/03/17	260	240	1,000	2.1	6.6	1.2	4.6	0.15	0.64	0.15	0.66	0.51	2.2	<0.55	<2.0			
HW-5	07/09/14	1	140	46	190	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0		
	10/23/14		2.9	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0		
	04/27/15	400	290	1,200	0.17	0.55	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	0.30	1.3	<0.55	<2.0			
	08/10/15	676	930	3,800	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0			
	02/08/16	300	320	1,300	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0			
	04/06/16	260	210	870	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0			
	08/08/16	190	120	480	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0			
01/18/17	2	180	85	300	0.34	1.1	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0			
HW-7	07/09/14	1	20	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0		
	10/23/14		20	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0		
	04/27/15	138	66	270	0.28	0.88	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0			
	08/10/15	28	7.3	30	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0			
	01/18/17	2	17	8.5	30	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
VEW-32	07/09/14	1	154	132	540	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0		
	10/23/14		191	19	76	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0		
	04/27/15	210	320	1,300	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0			
	08/10/15	456	460	1,900	0.66	2.1	<0.13	<0.50	0.23	1.0	<0.12	<0.50	0.46	2.0	<0.55	<2.0			
	02/08/16	160	130	550	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0			
	04/06/16	60	17	68	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0			
06/27/17	9.0	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0				
VEW-33	07/09/14	1	10	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0		
	10/23/14		22	7	27	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0		
	04/27/15	324	270	1,100	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0			
	08/10/15	334	290	1,200	0.50	1.6	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	0.32	1.4	<0.55	<2.0			
	02/08/16	220	270	1,100	0.38	1.2	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0			
	04/06/16	380	340	1,400	0.50	1.6	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	0.25	1.1	<0.55	<2.0			
	06/27/17	5.8	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0			
VEW-34	07/09/14	1	4.2	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0		
	10/23/14		8.0	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0		
	04/27/15	115	44	180	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0			
	08/10/15	63	14	57	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0			
	06/27/17	7.0	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0			

TABLE 7
Historical Summary of Analytical Sampling Results - Individual Well Vapor
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Well ID	Sample Date	Notes	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		MTBE	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
VEW-35	07/09/14	1	8015M & 8260M	5.5	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0
	10/23/14			28	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0
	04/27/15			4.8	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	08/10/15			16.4	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/17			4.5	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
VEW-36	07/09/14	1		6.4	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0
	10/23/14			9.1	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0
	04/27/15			5.7	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	08/10/15			2.2	8.1	33	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/17			6.7	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
VEW-37	07/09/14	1		20	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0
	10/23/14			151	13	53	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0
	04/27/15			2.4	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	08/10/15			3.9	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/17			5.7	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
VEW-38	06/27/17	3		331	37	150	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
VEW-39	06/27/17	3		130	37	150	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
VEW-40	06/27/17	3		3,018	2,700	11,000	0.28	0.88	<0.13	<0.50	0.99	4.3	<0.12	<0.50	0.81	3.5	<0.55	<2.0

Legend / Notes:

- GRO = Gasoline range organics
- OVA = Organic Vapor Analyzer (calibrated or correlated to Hexane)
- MTBE = Methyl tertiary-butyl ether
- ppmv = Parts per million by volume
- µg/L = Micrograms per liter
- <0.6 = Not detected at or above the method reporting limit (MRL) shown.
- = Not Analyzed
- 1 = Samples collected following system restart (off line since manual shut down on 05/29/14).
- 2 = Field OVA reading from 01/09/17.
- 3 = Well installed and tied into system during late June 2017.

TABLE 8a
Summary of LNAPL Removal in Well GMW-7 - 2nd Quarter 2017
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (ounces)	LNAPL Removed with Socks (fluid ounces)	Cumulative LNAPL Removed Via Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via, Pumping, Bailing and Socks ^A (pounds)
04/05/17	--	34.63	--	0.0	28.0	32.7	25.7	175.7
04/10/17	--	34.32	--	0.0	28.0	32.7	25.9	177.5
04/19/17	--	34.38	--	0.0	28.0	32.7	26.2	179.2
Cumulative for the Reporting Period:				0.0	84.0	98.2	0.8	5.2
Cumulative Beginning December 2014 ^A:				8.0	1992.0	2,328.4	26.2	179.2

Legend / Notes:

LNAPL = Light non-aqueous phase liquids

feet btc = Feet below top of casing

Sock = LNAPL absorbent sock (approximately 18" long with 3" diameter)

-- = Not applicable

A = Cumulative LNAPL removed since December 2014. LNAPL removed prior to December 2014 can be found in previously submitted Remediation Progress Reports.

TABLE 8b
Summary of LNAPL Removal in Well GMW-18 - 2nd Quarter 2017
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (ounces)	LNAPL Removed with Socks (fluid ounces)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
04/05/17	32.86	32.88	0.02	0.0	60.0	70.1	2.9	19.9
04/10/17	32.72	32.75	0.03	0.0	52.0	60.8	3.4	23.1
04/19/17	0.00	32.81	0.00	0.0	56.0	65.5	3.9	26.6
04/26/17	0.00	32.67	0.00	0.0	28.0	32.7	4.1	28.4
05/10/17	32.74	32.81	0.07	0.0	52.0	60.8	4.6	31.6
05/17/17	32.71	32.81	0.10	0.0	52.0	60.8	5.1	34.9
05/24/17	32.74	32.84	0.10	0.0	244.0	285.2	7.3	50.1
05/31/17	32.56	33.01	0.45	0.5	No Sock in Well	No Sock in Well	7.8	53.5
06/07/17	32.82	33.04	0.22	0.0	52.0	60.8	8.3	56.8
06/14/17	32.68	33.05	0.37	0.0	48.0	56.1	8.7	59.8
06/21/17	32.78	33.15	0.37	0.0	52.0	60.8	9.2	63.0
06/28/17	32.81	33.01	0.20	0.0	56.0	65.5	9.7	66.5

Cumulative for the Reporting Period:	0.5	752.0	879.0	7.4	50.4
Cumulative Beginning March 2017 ^A:	1.3	928.0	1,084.7	9.7	66.5

Legend / Notes:

LNAPL = Light non-aqueous phase liquids

feet btc = Feet below top of casing

Sock = LNAPL absorbent sock

-- = Not applicable

A = Cumulative LNAPL removed since March 2017. LNAPL removed prior to March 2017 can be found in previously submitted Remediation Progress Reports.

TABLE 8c
Summary of LNAPL Removal in Well GMW-62 - 2nd Quarter 2017
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (ounces)	LNAPL Removed with Socks (fluid ounces)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
04/05/17	--	34.28	--	0.0	60.0	70.1	133.4	913.2
04/10/17	--	34.27	--	0.0	52.0	60.8	133.9	916.4
04/19/17	--	34.02	--	0.0	44.0	51.4	134.3	919.2
04/26/17	--	33.71	--	0.0	28.0	32.7	134.6	920.9
05/10/17	--	33.93	--	0.0	36.0	42.1	134.9	923.2
05/17/17	--	33.75	--	0.0	16.0	18.7	135.0	924.2
05/24/17	--	33.80	--	0.0	28.0	32.7	135.3	925.9
06/07/17	--	33.75	--	0.0	20.0	23.4	135.5	927.2
06/28/17	--	33.67	--	0.0	20.0	23.4	135.7	928.4

Cumulative for the Reporting Period:	0.0	304.0	355.3	2.8	19.0
Cumulative Beginning January 2014 ^A:	112.0	2,592.0	3,029.8	135.7	928.4

Legend / Notes:

LNAPL = Light non-aqueous phase liquids

feet btc = Feet below top of casing

Sock = LNAPL absorbent sock

-- = Not applicable

A = Cumulative LNAPL removed since January 2014. LNAPL removed prior to January 2014 can be found in previously submitted Remediation Progress Reports.

TABLE 8d
Summary of LNAPL Removal in Well GMW-68 - 2nd Quarter 2017
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (ounces)	LNAPL Removed with Socks (fluid ounces)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
04/05/17	31.46	32.29	0.83	1.5	No Sock in Well	No Sock in Well	18.9	129.1
04/19/17	32.62	33.92	1.30	1.8	No Sock in Well	No Sock in Well	20.6	141.0
04/26/17	32.43	33.95	1.52	1.8	No Sock in Well	No Sock in Well	22.4	153.0
05/10/17	32.46	34.73	2.27	2.5	No Sock in Well	No Sock in Well	24.9	170.1
05/17/17	32.57	34.10	1.53	1.8	No Sock in Well	No Sock in Well	26.6	182.1
05/24/17	32.53	34.02	1.49	1.8	No Sock in Well	No Sock in Well	28.4	194.1
05/31/17	32.63	34.05	1.42	1.8	No Sock in Well	No Sock in Well	30.1	206.1
06/07/17	32.63	34.07	1.44	2.3	No Sock in Well	No Sock in Well	32.4	221.4
06/14/17	32.67	33.97	1.30	2.0	No Sock in Well	No Sock in Well	34.4	235.1
06/21/17	32.65	33.90	1.25	1.3	No Sock in Well	No Sock in Well	35.6	243.7
06/28/17	32.59	33.82	1.23	1.5	No Sock in Well	No Sock in Well	37.1	254.0

Cumulative for the Reporting Period:	19.8	0.0	0.0	19.8	135.2
Cumulative Beginning October 2016 ^A:	25.8	1,304.0	1,524.2	37.1	254.0

Legend / Notes:

LNAPL = Light non-aqueous phase liquids

feet btc = Feet below top of casing

Sock = LNAPL absorbent sock

-- = Not applicable

A = Cumulative LNAPL removed since October 2016 following installation of well during July 2015 (no measureable product from July 2015 through February 2017).

TABLE 8e
Summary of LNAPL Removal in Well TF-15 - 2nd Quarter 2017
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (ounces)	LNAPL Removed with Socks (fluid ounces)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
04/05/17	--	32.38	0.00	0.0	36.0	42.1	53.0	362.9
04/10/17	--	32.25	0.00	0.0	44.0	51.4	53.4	365.7
04/19/17	--	32.25	0.00	0.0	28.0	32.7	53.7	367.4
Cumulative for the Reporting Period:				0.0	108.0	126.2	1.0	6.7
Cumulative Beginning October 2016 ^A:				49.8	432.0	505.0	53.7	367.4

Legend / Notes:

LNAPL = Light non-aqueous phase liquids

feet btc = Feet below top of casing

Sock = LNAPL absorbent sock

-- = Not applicable

A = Cumulative LNAPL removed since October 2016. No LNAPL removed previously during 2016 or throughout 2015 due to recently completed excavaton project inadvertently resulting in burial of well head which was located during October 2016. LNAPL removed prior to well head being buried can be found in previously submitted Remediation Progress Reports.

TABLE 8f
Summary of LNAPL Removal in Well TF-19 - 2nd Quarter 2017
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (ounces)	LNAPL Removed with Socks (fluid ounces)	Cumulative LNAPL Removed Via Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Pumping, Bailing and Socks ^A (pounds)
04/05/17	--	32.12	--	0.0	28.0	32.7	27.8	189.9
04/10/17	--	31.94	--	0.0	36.0	42.1	28.1	192.2
04/19/17	--	31.91	--	0.0	28.0	32.7	28.3	193.9
Cumulative for the Reporting Period:				0.0	92.0	107.5	0.8	5.7
Cumulative Beginning June 2015 ^A:				6.8	2,364.0	2,763.3	28.3	193.9

Legend / Notes:

LNAPL = Light non-aqueous phase liquids

feet btc = Feet below top of casing

Sock = LNAPL absorbent sock

-- = Not applicable

A = Cumulative LNAPL removed since June 2015 (no measureable product from January 2014 to May 2015). LNAPL removed prior to January 2014 can be found in previously submitted Remediation Progress Reports.

TABLE 8g
Summary of LNAPL Removal in Well TF-16 - 2nd Quarter 2017
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (ounces)	LNAPL Removed with Socks (fluid ounces)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
04/05/17	33.28	34.04	0.76	10.0	No Sock in Well	0.0	56.5	386.5
04/19/17	33.26	33.53	0.27	12.0	No Sock in Well	0.0	66.5	454.9
04/26/17	33.11	33.65	0.54	14.0	No Sock in Well	0.0	78.5	537.0
05/10/17	33.02	33.39	0.37	14.0	No Sock in Well	0.0	90.5	619.1
05/17/17	33.10	33.93	0.83	14.0	No Sock in Well	0.0	102.5	701.2
05/31/17	33.34	33.96	0.62	12.0	No Sock in Well	0.0	112.5	769.7
06/07/17	33.16	33.46	0.30	12.0	No Sock in Well	0.0	122.5	838.1
06/14/17	33.10	35.02	1.92	10.0	No Sock in Well	0.0	130.5	892.9
06/21/17	33.12	34.95	1.83	10.0	No Sock in Well	0.0	138.5	947.6
06/28/17	33.43	34.31	0.88	6.0	No Sock in Well	0.0	144.5	988.7
06/30/17	--	--	0.00	1.0	No Sock in Well	0.0	145.5	995.5
Cumulative for the Reporting Period:				92.0	0.0	0.0	92.0	629.6
Cumulative Beginning October 2016 ^A:				140.3	572.0	668.6	145.5	995.5

Legend / Notes:

LNAPL = Light non-aqueous phase liquids

feet btc = Feet below top of casing

Sock = LNAPL absorbent sock

-- = Not applicable

A = Cumulative LNAPL removed since October 2016. No LNAPL removed previously during 2016 or throughout 2015 due to recently completed excavaton project inadvertently resulting in burial of well head which was located during October 2016. LNAPL removed prior to well head being buried can be found in previously submitted Remediation Progress Reports.

B = Well hooked up to product recovery system on March 3, 2017 (i.e., all LNAPL removed subsequent to this date achieved via pumping).

TABLE 8h
Summary of LNAPL Removal in Well TF-18 - 2nd Quarter 2017
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (ounces)	LNAPL Removed with Socks (fluid ounces)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
--	No Pumping/Skimming from Product Recovery System Well During 2nd Quarter 2017							

Cumulative for the Reporting Period:	0.0	0.0	0.0	0.0	0.0
Cumulative Beginning January 2014 - July 2016 ^A:	266.1	4,916.0	5,746.3	311.0	2,128.1
Cumulative Beginning August 2016 - June 2017 ^B:	1,654.0	0.0	0.0	1,654.0	11,318.7
Cumulative Beginning January 2014 ^A:	1,920.1	4,916.0	5,746.3	1,965.0	13,446.8

Legend / Notes:

LNAPL = Light non-aqueous phase liquids

feet btc = Feet below top of casing

Sock = LNAPL absorbent sock

-- = Not applicable

A = Cumulative LNAPL removed prior to January 2014 can be found in previously submitted Remediation Progress Reports.

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of a product recovery system that started operating on August 8, 2016 (system includes a total of four skimmers with skimming initially isolated to well TF-18).

* = Product recovery system off-line from January 9-27, 2017 due to full storage tank, and well TF-18 resumed operating after tank was emptied until February 8, 2017 when skimmer was manually shutdown to allow for LNAPL recovery which has yet to occur (i.e., thickness generally remained stable/minimal through current reporting period).

TABLE 8i
Summary of LNAPL Removal in Well RTF-18-N - 2nd Quarter 2017
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (ounces)	LNAPL Removed with Socks (fluid ounces)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
--	No Pumping/Skimming from Product Recovery System Well During 2nd Quarter 2017							

Cumulative for the Reporting Period:	0.0	0.0	0.0	0.0	0.0
Cumulative Beginning April 2016 - July 2016 ^A:	47.5	0.0	0.0	47.5	325.1
Cumulative Beginning August 2016 - June 2017 ^B:	265.0	0.0	0.0	265.0	1,813.5
Cumulative Beginning April 2016 ^A:	312.5	0.0	0.0	312.5	2,138.5

Legend / Notes:

LNAPL = Light non-aqueous phase liquids

feet btc = Feet below top of casing

Sock = LNAPL absorbent sock

-- = Not applicable

A = Cumulative LNAPL removed since April 2016 following installation of well during December 2015.

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of a product recovery system that started operating on August 8, 2016 (system includes a total of four skimmers with skimming from well RTF-18-N initiated on August 11, 2016).

* = Well RTF-18-N has been off-line since September 14, 2016 to allow for LNAPL recovery which has yet to occur (i.e., thickness generally remained stable/minimal through current reporting period).

TABLE 8j
Summary of LNAPL Removal in Well RTF-18-E - 2nd Quarter 2017
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (ounces)	LNAPL Removed with Socks (fluid ounces)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
--	No Pumping/Skimming from Product Recovery System Well During 2nd Quarter 2017							

Cumulative for the Reporting Period:	0.0	0.0	0.0	0.0	0.0
Cumulative Beginning May 2016 - July 2016 ^A:	47.5	0.0	0.0	47.5	325.1
Cumulative Beginning August 2016 - June 2017 ^B:	548.0	0.0	0.0	548.0	3,750.1
Cumulative Beginning May 2016 ^A:	595.5	0.0	0.0	595.5	4,075.1

Legend / Notes:

LNAPL = Light non-aqueous phase liquids

feet btc = Feet below top of casing

Sock = LNAPL absorbent sock

-- = Not applicable

A = Cumulative LNAPL removed since May 2016 following installation of well during December 2015.

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of a product recovery system that started operating on August 8, 2016 (system includes a total of four skimmers with skimming from well RTF-18-E initiated on August 11, 2016).

* = Product recovery system off-line from January 9-27, 2017 due to full storage tank, and well RTF-18-E resumed operating from February 8-15, 2017 when skimmer was manually shutdown to allow for LNAPL recovery which has yet to occur (i.e., thickness generally remained stable/minimal through current reporting period).

TABLE 8k
Summary of LNAPL Removal in Well RTF-18-W - 2nd Quarter 2017
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (ounces)	LNAPL Removed with Socks (fluid ounces)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
--	No Pumping/Skimming from Product Recovery System Well During 2nd Quarter 2017							

Cumulative for the Reporting Period:	0.0	0.0	0.0	0.0	0.0
Cumulative Beginning April 2016 - July 2016 ^A:	38.8	0.0	0.0	38.8	265.2
Cumulative Beginning August 2016 - June 2017 ^B:	42.0	0.0	0.0	42.0	287.4
Cumulative Beginning April 2016 ^A:	80.8	0.0	0.0	80.8	552.6

Legend / Notes:

LNAPL = Light non-aqueous phase liquids

feet btc = Feet below top of casing

Sock = LNAPL absorbent sock

-- = Not applicable

A = Cumulative LNAPL removed since April 2016 following installation of well during December 2015.

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of a product recovery system that started operating on August 8, 2016 (system includes a total of four skimmers with skimming from well RTF-18-W initiated on September 14, 2016).

* = Well RTF-18-W has been off-line since December 9, 2016 to allow for LNAPL recovery which has yet to occur (i.e., thickness generally remained stable/minimal through current reporting period).

TABLE 8I
Summary of LNAPL Removal in Well RTF-18-NW - 2nd Quarter 2017
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (ounces)	LNAPL Removed with Socks (fluid ounces)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
--	No Pumping/Skimming from Product Recovery System Well During 2nd Quarter 2017							

Cumulative for the Reporting Period:	0.0	0.0	0.0	0.0	0.0
Cumulative Beginning May 2016 - July 2016 ^A:	76.5	0.0	0.0	76.5	523.5
Cumulative Beginning August 2016 - June 2017 ^B:	2,486.0	0.0	0.0	2,486.0	17,012.3
Cumulative Beginning May 2016 ^A:	2,562.5	0.0	0.0	2,562.5	17,535.8

Legend / Notes:

LNAPL = Light non-aqueous phase liquids

feet btc = Feet below top of casing

Sock = LNAPL absorbent sock

-- = Not applicable

A = Cumulative LNAPL removed since May 2016 following installation of well during December 2015.

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of a product recovery system that started operating on August 8, 2016 (system includes a total of four skimmers with skimming from well RTF-18-NW initiated on August 11, 2016).

* = Product recovery system off-line from January 9-27, 2017 due to full storage tank, and well RTF-18-NW resumed operating after tank was emptied until February 15, 2017 when skimmer was manually shutdown to allow for LNAPL recovery which has yet to occur (i.e., thickness generally remained stable/minimal through current reporting period).

TABLE 8m
Summary of LNAPL Removal in Well RTF-18-NNW - 2nd Quarter 2017
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (ounces)	LNAPL Removed with Socks (fluid ounces)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
--	No Pumping/Skimming from Product Recovery System Well During 2nd Quarter 2017							

Cumulative for the Reporting Period:	0.0	0.0	0.0	0.0	0.0
Cumulative Beginning April 2016 - July 2016 ^A:	54.5	0.0	0.0	54.5	373.0
Cumulative Beginning August 2016 - June 2017 ^B:	48.5	0.0	0.0	48.5	331.9
Cumulative Beginning April 2016 ^A:	103.0	0.0	0.0	103.0	704.9

Legend / Notes:

LNAPL = Light non-aqueous phase liquids

feet btc = Feet below top of casing

Sock = LNAPL absorbent sock

-- = Not applicable

A = Cumulative LNAPL removed since April 2016 following installation of well during December 2015.

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of a product recovery system that started operating on August 8, 2016 (system includes a total of four skimmers with skimming from well RTF-18-NNW initiated on September 14, 2016).

* = Product recovery system off-line from January 9-27, 2017 due to full storage tank, and well RTF-18-NNW left off-line for remainder of quarter after tank was emptied to allow for LNAPL recovery which has yet to occur (i.e., thickness decreased from January 2017 to March 2017 with no measureable product since early March 2017).
 allow for LNAPL recovery which has yet to occur (i.e., thickness generally remained stable/minimal through current reporting period).

APPENDIX A

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTS



9765 Eton Avenue
Chatsworth
California 91311
Tel: (818) 998-5547
Fax: (818) 998-7258

April 17, 2017

Neil Irish

The Source Group, Inc. (SH)
1962 Freeman Ave.
Signal Hill, CA 90755

**Re : DFSP Norwalk GWETS NPDES Monthly / 04-NDLA-013
A5332109 / 7D05035**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 04/05/17 17:21 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytics.

Sincerely,

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332109
Date Received: 04/05/17
Date Reported: 04/17/17

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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8260B TPHGASOLINEBTEXOXY

Surge Tank	7D05035-01	Water	5	04/05/17 08:11	04/05/17 17:21
After GAC-1	7D05035-02	Water	5	04/05/17 08:03	04/05/17 17:21
After GAC-2	7D05035-03	Water	5	04/05/17 07:58	04/05/17 17:21

Arsenic Total EPA 200.7

Surge Tank	7D05035-01	Water	5	04/05/17 08:11	04/05/17 17:21
After Zeolite Bed-1	7D05035-04	Water	5	04/05/17 07:35	04/05/17 17:21
After Zeolite Bed-2	7D05035-05	Water	5	04/05/17 07:34	04/05/17 17:21

Diesel Range Organics 8015M

Surge Tank	7D05035-01	Water	5	04/05/17 08:11	04/05/17 17:21
After GAC-1	7D05035-02	Water	5	04/05/17 08:03	04/05/17 17:21
After GAC-2	7D05035-03	Water	5	04/05/17 07:58	04/05/17 17:21

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly
Method: TPHG/BTEX/Oxygenates by GC/MS

AA Project No: A5332109
Date Received: 04/05/17
Date Reported: 04/17/17
Units: ug/L

Date Sampled:	04/05/17	04/05/17	04/05/17		
Date Prepared:	04/12/17	04/12/17	04/12/17		
Date Analyzed:	04/12/17	04/12/17	04/13/17		
AA ID No:	7D05035-01	7D05035-02	7D05035-03		
Client ID No:	Surge Tank	After GAC-1	After GAC-2		
Matrix:	Water	Water	Water		
Dilution Factor:	1	1	1	MDL	MRL

8260B TPHGASOLINEBTEXOXY (EPA 8260B)

tert-Amyl Methyl Ether (TAME)	<0.30	<0.30	<0.30	0.30	2.0
Benzene	8.4	<0.20	<0.20	0.20	0.50
tert-Butyl alcohol (TBA)	<7.0	<7.0	<7.0	7.0	10
Diisopropyl ether (DIPE)	<0.50	<0.50	<0.50	0.50	2.0
Ethylbenzene	<0.20	<0.20	<0.20	0.20	0.50
Ethyl-tert-Butyl Ether (ETBE)	<0.40	<0.40	<0.40	0.40	2.0
Gasoline Range Organics (GRO)	<40	<40	<40	40	100
Methyl-tert-Butyl Ether (MTBE)	<0.40	<0.40	<0.40	0.40	2.0
Toluene	<0.30	<0.30	<0.30	0.30	0.50
o-Xylene	<0.30	<0.30	<0.30	0.30	0.50
m,p-Xylenes	<0.40	<0.40	<0.40	0.40	1.0

Surrogates

				%REC Limits
4-Bromofluorobenzene	102%	106%	104%	70-140
Dibromofluoromethane	120%	121%	110%	70-140
Toluene-d8	96%	99%	100%	70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly
Method: Diesel Range Organics by GC/FID

AA Project No: A5332109
Date Received: 04/05/17
Date Reported: 04/17/17
Units: ug/L

Date Sampled:	04/05/17	04/05/17	04/05/17		
Date Prepared:	04/12/17	04/12/17	04/12/17		
Date Analyzed:	04/12/17	04/12/17	04/12/17		
AA ID No:	7D05035-01	7D05035-02	7D05035-03		
Client ID No:	Surge Tank	After GAC-1	After GAC-2		
Matrix:	Water	Water	Water		
Dilution Factor:	1	1	1	MDL	MRL

Diesel Range Organics 8015M (EPA 8015M)

Diesel Range Organics as Diesel	74 J	<60	<60	60	100
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Surrogates

o-Terphenyl	111%	90%	87%	<u>%REC Limits</u>	50-150
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly
Method: Total Metals by ICP Atomic Emission Spectroscopy

AA Project No: A5332109
Date Received: 04/05/17
Date Reported: 04/17/17

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MDL	MRL
<u>Arsenic Total EPA 200.7 (EPA 200.7)</u>									
7D05035-01	Surge Tank	04/05/17	04/07/17	04/10/17	1	0.046	mg/L	0.006	0.007
7D05035-04	After Zeolite Bed-1	04/05/17	04/07/17	04/10/17	1	0.022	mg/L	0.006	0.007
7D05035-05	After Zeolite Bed-2	04/05/17	04/07/17	04/10/17	1	0.021	mg/L	0.006	0.007

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332109
Date Received: 04/05/17
Date Reported: 04/17/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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TPHG/BTEX/Oxygenates by GC/MS - Quality Control

Batch B7D1222 - EPA 5030B

Blank (B7D1222-BLK1)

Prepared & Analyzed: 04/12/17

tert-Amyl Methyl Ether (TAME)	<0.30	0.30	ug/L						
Benzene	<0.20	0.20	ug/L						
tert-Butyl alcohol (TBA)	<7.0	7.0	ug/L						
Diisopropyl ether (DIPE)	<0.50	0.50	ug/L						
Ethylbenzene	<0.20	0.20	ug/L						
Ethyl-tert-Butyl Ether (ETBE)	<0.40	0.40	ug/L						
Gasoline Range Organics (GRO)	<40	40	ug/L						
Methyl-tert-Butyl Ether (MTBE)	<0.40	0.40	ug/L						
Toluene	<0.30	0.30	ug/L						
o-Xylene	<0.30	0.30	ug/L						
m,p-Xylenes	<0.40	0.40	ug/L						

<i>Surrogate: 4-Bromofluorobenzene</i>	47.6		ug/L	50		95.2	70-140		
<i>Surrogate: Dibromofluoromethane</i>	56.5		ug/L	50		113	70-140		
<i>Surrogate: Toluene-d8</i>	46.0		ug/L	50		91.9	70-140		

LCS (B7D1222-BS1)

Prepared & Analyzed: 04/12/17

tert-Amyl Methyl Ether (TAME)	19.2	0.30	ug/L	20		95.8	70-130		
Benzene	23.8	0.20	ug/L	20		119	75-125		
tert-Butyl alcohol (TBA)	98.9	7.0	ug/L	100		98.9	70-130		
Diisopropyl ether (DIPE)	19.1	0.50	ug/L	20		95.4	70-130		
Ethylbenzene	21.9	0.20	ug/L	20		110	75-125		
Ethyl-tert-Butyl Ether (ETBE)	18.6	0.40	ug/L	20		93.2	70-130		
Gasoline Range Organics (GRO)	490	40	ug/L	500		98.0	70-130		
Methyl-tert-Butyl Ether (MTBE)	47.2	0.40	ug/L	40		118	70-135		
Toluene	20.7	0.30	ug/L	20		104	75-125		
o-Xylene	21.8	0.30	ug/L	20		109	75-125		
m,p-Xylenes	44.0	0.40	ug/L	40		110	70-130		

<i>Surrogate: 4-Bromofluorobenzene</i>	48.2		ug/L	50		96.5	70-140		
<i>Surrogate: Dibromofluoromethane</i>	48.2		ug/L	50		96.3	70-140		
<i>Surrogate: Toluene-d8</i>	42.0		ug/L	50		84.0	70-140		

Matrix Spike (B7D1222-MS1)

Source: 7C30015-01 Prepared: 04/12/17 Analyzed: 04/13/17

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332109
Date Received: 04/05/17
Date Reported: 04/17/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
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TPHG/BTEX/Oxygenates by GC/MS - Quality Control

Batch B7D1222 - EPA 5030B

Matrix Spike (B7D1222-MS1) Continued Source: 7C30015-01 Prepared: 04/12/17 Analyzed: 04/13/17

tert-Amyl Methyl Ether (TAME)	19.4	0.30	ug/L	20		96.8	70-130			
Benzene	23.9	0.20	ug/L	20		119	70-130			
tert-Butyl alcohol (TBA)	88.5	7.0	ug/L	100		88.5	70-130			
Diisopropyl ether (DIPE)	20.3	0.50	ug/L	20		102	70-130			
Ethylbenzene	22.8	0.20	ug/L	20		114	70-130			
Ethyl-tert-Butyl Ether (ETBE)	19.6	0.40	ug/L	20		97.8	70-130			
Methyl-tert-Butyl Ether (MTBE)	47.0	0.40	ug/L	40		118	70-130			
Toluene	21.7	0.30	ug/L	20		109	70-130			
o-Xylene	23.5	0.30	ug/L	20		118	70-130			
m,p-Xylenes	45.9	0.40	ug/L	40		115	70-130			
Surrogate: 4-Bromofluorobenzene	51.2		ug/L	50		102	70-140			
Surrogate: Dibromofluoromethane	54.0		ug/L	50		108	70-140			
Surrogate: Toluene-d8	48.5		ug/L	50		97.0	70-140			

Matrix Spike Dup (B7D1222-MSD1) Source: 7C30015-01 Prepared: 04/12/17 Analyzed: 04/13/17

tert-Amyl Methyl Ether (TAME)	19.4	0.30	ug/L	20		96.8	70-130	0.0516	30	
Benzene	23.9	0.20	ug/L	20		120	70-130	0.0419	30	
tert-Butyl alcohol (TBA)	90.2	7.0	ug/L	100		90.2	70-130	1.88	30	
Diisopropyl ether (DIPE)	20.9	0.50	ug/L	20		104	70-130	2.77	30	
Ethylbenzene	23.2	0.20	ug/L	20		116	70-130	1.56	30	
Ethyl-tert-Butyl Ether (ETBE)	20.0	0.40	ug/L	20		100	70-130	2.22	30	
Methyl-tert-Butyl Ether (MTBE)	48.3	0.40	ug/L	40		121	70-130	2.67	30	
Toluene	21.7	0.30	ug/L	20		109	70-130	0.0920	30	
o-Xylene	24.0	0.30	ug/L	20		120	70-130	1.85	30	
m,p-Xylenes	46.6	0.40	ug/L	40		116	70-130	1.49	30	
Surrogate: 4-Bromofluorobenzene	51.8		ug/L	50		104	70-140			
Surrogate: Dibromofluoromethane	53.4		ug/L	50		107	70-140			
Surrogate: Toluene-d8	48.8		ug/L	50		97.7	70-140			

Diesel Range Organics by GC/FID - Quality Control

Batch B7D1221 - EPA 3510C

Blank (B7D1221-BLK1)

Prepared & Analyzed: 04/12/17

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332109
Date Received: 04/05/17
Date Reported: 04/17/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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Diesel Range Organics by GC/FID - Quality Control

Batch B7D1221 - EPA 3510C

Blank (B7D1221-BLK1) Continued

Prepared & Analyzed: 04/12/17

Diesel Range Organics as Diesel	<60	60	ug/L							
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Surrogate: o-Terphenyl	43.5		ug/L	40		109	50-150			
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LCS (B7D1221-BS1)

Prepared & Analyzed: 04/12/17

Diesel Range Organics as Diesel	869	60	ug/L	800		109	75-125		30	
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Surrogate: o-Terphenyl	54.1		ug/L	40		135	50-150			
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LCS Dup (B7D1221-BSD1)

Prepared & Analyzed: 04/12/17

Diesel Range Organics as Diesel	701	60	ug/L	800		87.6	75-125	21.4	30	
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Surrogate: o-Terphenyl	42.1		ug/L	40		105	50-150			
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Total Metals by ICP Atomic Emission Spectroscopy - Quality Control

Batch B7D0704 - EPA 200.7

Blank (B7D0704-BLK1)

Prepared: 04/07/17 Analyzed: 04/10/17

Arsenic	<0.0060	0.0060	mg/L							
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LCS (B7D0704-BS1)

Prepared: 04/07/17 Analyzed: 04/10/17

Arsenic	1.03	0.0060	mg/L	1.0		103	80-120		20	
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LCS Dup (B7D0704-BSD1)

Prepared: 04/07/17 Analyzed: 04/10/17

Arsenic	1.04	0.0060	mg/L	1.0		104	80-120	1.35	20	
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Duplicate (B7D0704-DUP1)

Source: 7D05035-05

Prepared: 04/07/17 Analyzed: 04/10/17

Arsenic	0.0188	0.0060	mg/L		0.0210			11.1	30	
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Matrix Spike (B7D0704-MS1)

Source: 7D05035-01

Prepared: 04/07/17 Analyzed: 04/10/17

Arsenic	1.02	0.0060	mg/L	1.0	0.0462	97.6	75-125		20	
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Matrix Spike Dup (B7D0704-MSD1)

Source: 7D05035-01

Prepared: 04/07/17 Analyzed: 04/10/17

Arsenic	1.02	0.0060	mg/L	1.0	0.0462	97.4	75-125	0.196	20	
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332109
Date Received: 04/05/17
Date Reported: 04/17/17

Special Notes

J : Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

Viorel Vasile
Operations Manager



9765 Eton Avenue
Chatsworth
California 91311
Tel: (818) 998-5547
Fax: (818) 998-7258

May 16, 2017

Neil Irish

The Source Group, Inc. (SH)
1962 Freeman Ave.
Signal Hill, CA 90755

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5332120 / 7D18014**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 04/18/17 14:40 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytics.

Sincerely,

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5332120
Date Received: 04/18/17
Date Reported: 05/16/17

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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VOCs BTEX/MTBE Vapor GC/MS

Influent	7D18014-01	Vapor	5	04/17/17 13:05	04/18/17 14:40
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VOCs Gasoline Range Organics Vapor

Influent	7D18014-01	Vapor	5	04/17/17 13:05	04/18/17 14:40
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VOCs GRO Vapor as Hexane

Influent	7D18014-01	Vapor	5	04/17/17 13:05	04/18/17 14:40
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Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5332120
Date Received: 04/18/17
Date Reported: 05/16/17
Sampled: 04/17/17
Prepared: 04/20/17
Analyzed: 04/20/17

Influent**7D18014-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	3.5	ug/L	0.50	1.1	ppmv	0.16
Ethylbenzene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	2.0	ug/L	0.50	0.53	ppmv	0.13
o-Xylene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
m,p-Xylenes	1.0	ug/L	1.0	0.23	ppmv	0.23

Surrogates**%REC****%REC Limits**

4-Bromofluorobenzene
Dibromofluoromethane
Toluene-d8

97.8 %
114 %
96.0 %

70-140
70-140
70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332120
Date Received: 04/18/17
Date Reported: 05/16/17
Sampled: 04/17/17
Prepared: 04/19/17
Analyzed: 04/19/17

Influent

7D18014-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	610	ug/L	20	150	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		104 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor as Hexane

AA Project No: A5332120
Date Received: 04/18/17
Date Reported: 05/16/17
Sampled: 04/17/17
Prepared: 04/19/17
Analyzed: 04/19/17

Influent**7D18014-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
GRO as Hexane	610	ug/L	20	170	ppmv	5.7
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		104 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5332120
Date Received: 04/18/17
Date Reported: 05/16/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD RPD	RPD Limit	Notes
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VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control

Batch B7D2023 - *** DEFAULT PREP ***

Blank (B7D2023-BLK1)

Prepared & Analyzed: 04/20/17

Benzene	<0.50	0.50	ug/L						
Ethylbenzene	<0.50	0.50	ug/L						
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L						
Toluene	<0.50	0.50	ug/L						
o-Xylene	<0.50	0.50	ug/L						
m,p-Xylenes	<1.0	1.0	ug/L						

Surrogate: 4-Bromofluorobenzene	48.3		ug/L	50		96.6 70-140			
Surrogate: Dibromofluoromethane	59.6		ug/L	50		119 70-140			
Surrogate: Toluene-d8	46.0		ug/L	50		92.0 70-140			

LCS (B7D2023-BS1)

Prepared & Analyzed: 04/20/17

Benzene	23.0	0.50	ug/L	20		115 75-125			
Ethylbenzene	23.2	0.50	ug/L	20		116 75-125			
Methyl-tert-Butyl Ether (MTBE)	45.5	2.0	ug/L	40		114 75-125			
Toluene	21.7	0.50	ug/L	20		108 75-125			
o-Xylene	22.4	0.50	ug/L	20		112 75-125			
m,p-Xylenes	46.2	1.0	ug/L	40		116 75-125			

Surrogate: 4-Bromofluorobenzene	49.2		ug/L	50		98.5 70-140			
Surrogate: Dibromofluoromethane	50.8		ug/L	50		102 70-140			
Surrogate: Toluene-d8	47.5		ug/L	50		95.0 70-140			

LCS Dup (B7D2023-BSD1)

Prepared: 04/20/17 Analyzed: 04/21/17

Benzene	23.5	0.50	ug/L	20		117 75-125	1.89	30	
Ethylbenzene	22.5	0.50	ug/L	20		113 75-125	2.97	30	
Methyl-tert-Butyl Ether (MTBE)	43.7	2.0	ug/L	40		109 75-125	4.15	30	
Toluene	21.5	0.50	ug/L	20		107 75-125	1.02	30	
o-Xylene	22.1	0.50	ug/L	20		111 75-125	1.12	30	
m,p-Xylenes	44.7	1.0	ug/L	40		112 75-125	3.30	30	

Surrogate: 4-Bromofluorobenzene	49.6		ug/L	50		99.3 70-140			
Surrogate: Dibromofluoromethane	48.3		ug/L	50		96.6 70-140			
Surrogate: Toluene-d8	48.1		ug/L	50		96.1 70-140			

Duplicate (B7D2023-DUP1)

Source: 7D18014-02 Prepared & Analyzed: 04/20/17

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5332120
Date Received: 04/18/17
Date Reported: 05/16/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B7D2023 - *** DEFAULT PREP ***</i>										
Duplicate (B7D2023-DUP1) Continued Source: 7D18014-02 Prepared & Analyzed: 04/20/17										
Benzene	<0.25	0.25	ug/L						30	
Ethylbenzene	<0.25	0.25	ug/L						30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L						30	
Toluene	<0.25	0.25	ug/L						30	
o-Xylene	<0.25	0.25	ug/L						30	
m,p-Xylenes	<0.50	0.50	ug/L						30	
<i>Surrogate: 4-Bromofluorobenzene</i>	47.8		ug/L	50		95.6	70-140			
<i>Surrogate: Dibromofluoromethane</i>	57.7		ug/L	50		115	70-140			
<i>Surrogate: Toluene-d8</i>	46.6		ug/L	50		93.1	70-140			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B7D1924 - *** DEFAULT PREP ***</i>										
Blank (B7D1924-BLK1) Prepared & Analyzed: 04/19/17										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	49.0		ug/L	50		98.0	70-130			
LCS (B7D1924-BS1) Prepared & Analyzed: 04/19/17										
Gasoline Range Organics (GRO)	424	20	ug/L	500		84.8	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	50.0		ug/L	50		100	70-130			
LCS Dup (B7D1924-BSD1) Prepared & Analyzed: 04/19/17										
Gasoline Range Organics (GRO)	451	20	ug/L	500		90.3	75-125	6.27	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	49.6		ug/L	50		99.2	70-130			
Duplicate (B7D1924-DUP1) Source: 7D18014-01 Prepared & Analyzed: 04/19/17										
Gasoline Range Organics (GRO)	629	20	ug/L		608			3.40	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	52.9		ug/L	50		106	70-130			
Gasoline Range Organics in Vapor as Hexane - Quality Control										
<i>Batch B7D1924 - *** DEFAULT PREP ***</i>										
Blank (B7D1924-BLK1) Prepared & Analyzed: 04/19/17										
GRO as Hexane	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	49.0		ug/L	50		98.0	70-130			

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5332120
Date Received: 04/18/17
Date Reported: 05/16/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Gasoline Range Organics in Vapor as Hexane - Quality Control										
<i>Batch B7D1924 - *** DEFAULT PREP ***</i>										
LCS (B7D1924-BS1)				Prepared & Analyzed: 04/19/17						
GRO as Hexane	424	20	ug/L	500	84.8	75-125				
Surrogate: a,a,a-Trifluorotoluene	50.0		ug/L	50	100	70-130				
LCS Dup (B7D1924-BSD1)				Prepared & Analyzed: 04/19/17						
GRO as Hexane	451	20	ug/L	500	90.3	75-125	6.27	30		
Surrogate: a,a,a-Trifluorotoluene	49.6		ug/L	50	99.2	70-130				
Duplicate (B7D1924-DUP1)				Source: 7D18014-01 Prepared & Analyzed: 04/19/17						
GRO as Hexane	629	20	ug/L		608			3.40	30	
Surrogate: a,a,a-Trifluorotoluene	52.9		ug/L	50	106	70-130				

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5332120
Date Received: 04/18/17
Date Reported: 05/16/17

Special Notes

Viorel Vasile
Operations Manager



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Tel: (818) 998-5547
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May 17, 2017

Neil Irish

The Source Group, Inc. (SH)
1962 Freeman Ave.
Signal Hill, CA 90755

**Re : DFSP Norwalk GWETS NPDES Monthly / 04-NDLA-013
A5332139 / 7E03020**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 05/03/17 15:05 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytics.

Sincerely,

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332139
Date Received: 05/03/17
Date Reported: 05/17/17

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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8260B TPHGASOLINEBTEXOXY

Surge Tank	7E03020-01	Water	5	05/03/17 12:52	05/03/17 15:05
After GAC-1	7E03020-02	Water	5	05/03/17 12:47	05/03/17 15:05
After GAC-2	7E03020-03	Water	5	05/03/17 12:42	05/03/17 15:05

Arsenic Total EPA 200.7

Surge Tank	7E03020-01	Water	5	05/03/17 12:52	05/03/17 15:05
After Zeolite Bed-1	7E03020-04	Water	5	05/03/17 12:38	05/03/17 15:05
After Zeolite Bed-2	7E03020-05	Water	5	05/03/17 12:37	05/03/17 15:05

Diesel Range Organics 8015M

Surge Tank	7E03020-01	Water	5	05/03/17 12:52	05/03/17 15:05
After GAC-1	7E03020-02	Water	5	05/03/17 12:47	05/03/17 15:05
After GAC-2	7E03020-03	Water	5	05/03/17 12:42	05/03/17 15:05

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly
Method: TPHG/BTEX/Oxygenates by GC/MS

AA Project No: A5332139
Date Received: 05/03/17
Date Reported: 05/17/17
Units: ug/L

Date Sampled:	05/03/17	05/03/17	05/03/17		
Date Prepared:	05/05/17	05/05/17	05/05/17		
Date Analyzed:	05/05/17	05/05/17	05/05/17		
AA ID No:	7E03020-01	7E03020-02	7E03020-03		
Client ID No:	Surge Tank	After GAC-1	After GAC-2		
Matrix:	Water	Water	Water		
Dilution Factor:	1	1	1	MDL	MRL

8260B TPHGASOLINEBTEXOXY (EPA 8260B)

tert-Amyl Methyl Ether (TAME)	<0.30	<0.30	<0.30	0.30	2.0
Benzene	4.3	<0.20	<0.20	0.20	0.50
tert-Butyl alcohol (TBA)	<7.0	<7.0	<7.0	7.0	10
Diisopropyl ether (DIPE)	<0.50	<0.50	<0.50	0.50	2.0
Ethylbenzene	<0.20	<0.20	<0.20	0.20	0.50
Ethyl-tert-Butyl Ether (ETBE)	<0.40	<0.40	<0.40	0.40	2.0
Gasoline Range Organics (GRO)	<40	<40	<40	40	100
Methyl-tert-Butyl Ether (MTBE)	<0.40	<0.40	<0.40	0.40	2.0
Toluene	<0.30	<0.30	<0.30	0.30	0.50
o-Xylene	<0.30	<0.30	<0.30	0.30	0.50
m,p-Xylenes	<0.40	<0.40	<0.40	0.40	1.0

Surrogates

				%REC Limits
4-Bromofluorobenzene	111%	109%	112%	70-140
Dibromofluoromethane	125%	121%	119%	70-140
Toluene-d8	104%	106%	106%	70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly
Method: Diesel Range Organics by GC/FID

AA Project No: A5332139
Date Received: 05/03/17
Date Reported: 05/17/17
Units: ug/L

Date Sampled:	05/03/17	05/03/17	05/03/17		
Date Prepared:	05/11/17	05/11/17	05/11/17		
Date Analyzed:	05/12/17	05/12/17	05/12/17		
AA ID No:	7E03020-01	7E03020-02	7E03020-03		
Client ID No:	Surge Tank	After GAC-1	After GAC-2		
Matrix:	Water	Water	Water		
Dilution Factor:	1	1	1	MDL	MRL

Diesel Range Organics 8015M (EPA 8015M)

Diesel Range Organics as Diesel	72 J	<60	<60	60	100
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Surrogates

o-Terphenyl	127%	120%	134%	<u>%REC Limits</u>	50-150
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Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly
Method: Total Metals by ICP Atomic Emission Spectroscopy

AA Project No: A5332139
Date Received: 05/03/17
Date Reported: 05/17/17

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MDL	MRL
<u>Arsenic Total EPA 200.7 (EPA 200.7)</u>									
7E03020-01	Surge Tank	05/03/17	05/08/17	05/08/17	1	0.037	mg/L	0.006	0.007
7E03020-04	After Zeolite Bed-1	05/03/17	05/08/17	05/08/17	1	0.020	mg/L	0.006	0.007
7E03020-05	After Zeolite Bed-2	05/03/17	05/08/17	05/08/17	1	0.017	mg/L	0.006	0.007

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332139
Date Received: 05/03/17
Date Reported: 05/17/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	RPD Limit	Notes
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TPHG/BTEX/Oxygenates by GC/MS - Quality Control

Batch B7E0503 - EPA 5030B

Blank (B7E0503-BLK1)

Prepared & Analyzed: 05/05/17

tert-Amyl Methyl Ether (TAME)	<0.30	0.30	ug/L
Benzene	<0.20	0.20	ug/L
tert-Butyl alcohol (TBA)	<7.0	7.0	ug/L
Diisopropyl ether (DIPE)	<0.50	0.50	ug/L
Ethylbenzene	<0.20	0.20	ug/L
Ethyl-tert-Butyl Ether (ETBE)	<0.40	0.40	ug/L
Gasoline Range Organics (GRO)	<40	40	ug/L
Methyl-tert-Butyl Ether (MTBE)	<0.40	0.40	ug/L
Toluene	<0.30	0.30	ug/L
o-Xylene	<0.30	0.30	ug/L
m,p-Xylenes	<0.40	0.40	ug/L

Surrogate: 4-Bromofluorobenzene	51.5		ug/L	50	103	70-140
Surrogate: Dibromofluoromethane	61.3		ug/L	50	123	70-140
Surrogate: Toluene-d8	49.7		ug/L	50	99.5	70-140

LCS (B7E0503-BS1)

Prepared: 05/05/17 Analyzed: 05/06/17

tert-Amyl Methyl Ether (TAME)	16.7	0.30	ug/L	20	83.6	70-130
Benzene	20.2	0.20	ug/L	20	101	75-125
tert-Butyl alcohol (TBA)	97.9	7.0	ug/L	100	97.9	70-130
Diisopropyl ether (DIPE)	18.2	0.50	ug/L	20	91.0	70-130
Ethylbenzene	21.9	0.20	ug/L	20	110	75-125
Ethyl-tert-Butyl Ether (ETBE)	19.1	0.40	ug/L	20	95.4	70-130
Gasoline Range Organics (GRO)	489	40	ug/L	500	97.8	70-130
Methyl-tert-Butyl Ether (MTBE)	37.2	0.40	ug/L	40	92.9	70-135
Toluene	21.8	0.30	ug/L	20	109	75-125
o-Xylene	21.6	0.30	ug/L	20	108	75-125
m,p-Xylenes	42.1	0.40	ug/L	40	105	70-130

Surrogate: 4-Bromofluorobenzene	52.8		ug/L	50	106	70-140
Surrogate: Dibromofluoromethane	53.6		ug/L	50	107	70-140
Surrogate: Toluene-d8	55.3		ug/L	50	111	70-140

Matrix Spike (B7E0503-MS1)

Source: 7E02018-07 Prepared & Analyzed: 05/05/17

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332139
Date Received: 05/03/17
Date Reported: 05/17/17

Analyte	Reporting Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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TPHG/BTEX/Oxygenates by GC/MS - Quality Control

Batch B7E0503 - EPA 5030B

Matrix Spike (B7E0503-MS1) Continued Source: 7E02018-07 Prepared & Analyzed: 05/05/17

tert-Amyl Methyl Ether (TAME)	19.1	0.30	ug/L	20		95.4	70-130			
Benzene	20.7	0.20	ug/L	20		104	70-130			
tert-Butyl alcohol (TBA)	122	7.0	ug/L	100		122	70-130			
Diisopropyl ether (DIPE)	18.9	0.50	ug/L	20		94.4	70-130			
Ethylbenzene	21.1	0.20	ug/L	20		106	70-130			
Ethyl-tert-Butyl Ether (ETBE)	20.3	0.40	ug/L	20		102	70-130			
Methyl-tert-Butyl Ether (MTBE)	42.4	0.40	ug/L	40		106	70-130			
Toluene	20.7	0.30	ug/L	20		103	70-130			
o-Xylene	20.8	0.30	ug/L	20		104	70-130			
m,p-Xylenes	40.5	0.40	ug/L	40		101	70-130			
Surrogate: 4-Bromofluorobenzene	52.5		ug/L	50		105	70-140			
Surrogate: Dibromofluoromethane	53.6		ug/L	50		107	70-140			
Surrogate: Toluene-d8	50.8		ug/L	50		102	70-140			

Matrix Spike Dup (B7E0503-MSD1) Source: 7E02018-07 Prepared & Analyzed: 05/05/17

tert-Amyl Methyl Ether (TAME)	18.8	0.30	ug/L	20		93.9	70-130	1.58	30	
Benzene	20.9	0.20	ug/L	20		105	70-130	0.912	30	
tert-Butyl alcohol (TBA)	113	7.0	ug/L	100		113	70-130	7.66	30	
Diisopropyl ether (DIPE)	18.7	0.50	ug/L	20		93.7	70-130	0.744	30	
Ethylbenzene	21.8	0.20	ug/L	20		109	70-130	3.03	30	
Ethyl-tert-Butyl Ether (ETBE)	20.7	0.40	ug/L	20		104	70-130	1.90	30	
Methyl-tert-Butyl Ether (MTBE)	40.8	0.40	ug/L	40		102	70-130	3.68	30	
Toluene	21.3	0.30	ug/L	20		107	70-130	3.14	30	
o-Xylene	21.1	0.30	ug/L	20		106	70-130	1.29	30	
m,p-Xylenes	41.5	0.40	ug/L	40		104	70-130	2.37	30	
Surrogate: 4-Bromofluorobenzene	52.8		ug/L	50		106	70-140			
Surrogate: Dibromofluoromethane	52.5		ug/L	50		105	70-140			
Surrogate: Toluene-d8	51.4		ug/L	50		103	70-140			

Diesel Range Organics by GC/FID - Quality Control

Batch B7E1130 - EPA 3510C

Blank (B7E1130-BLK1)

Prepared: 05/11/17 Analyzed: 05/12/17

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332139
Date Received: 05/03/17
Date Reported: 05/17/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD RPD	RPD Limit	Notes
Diesel Range Organics by GC/FID - Quality Control									
<i>Batch B7E1130 - EPA 3510C</i>									
Blank (B7E1130-BLK1) Continued				Prepared: 05/11/17 Analyzed: 05/12/17					
Diesel Range Organics as Diesel	<60	60	ug/L						
Surrogate: o-Terphenyl	55.3		ug/L	40		138 50-150			
LCS (B7E1130-BS1)				Prepared: 05/11/17 Analyzed: 05/12/17					
Diesel Range Organics as Diesel	745	60	ug/L	800		93.1 75-125		30	
Surrogate: o-Terphenyl	56.3		ug/L	40		141 50-150			
LCS Dup (B7E1130-BSD1)				Prepared: 05/11/17 Analyzed: 05/12/17					
Diesel Range Organics as Diesel	784	60	ug/L	800		98.0 75-125	5.12	30	
Surrogate: o-Terphenyl	52.3		ug/L	40		131 50-150			
Total Metals by ICP Atomic Emission Spectroscopy - Quality Control									
<i>Batch B7E0825 - EPA 200.7</i>									
Blank (B7E0825-BLK1)				Prepared & Analyzed: 05/08/17					
Arsenic	<0.0060	0.0060	mg/L						
LCS (B7E0825-BS1)				Prepared & Analyzed: 05/08/17					
Arsenic	1.04	0.0060	mg/L	1.0		104 80-120		20	
LCS Dup (B7E0825-BSD1)				Prepared & Analyzed: 05/08/17					
Arsenic	1.03	0.0060	mg/L	1.0		103 80-120	0.771	20	
Duplicate (B7E0825-DUP1)				Source: 7E03020-05 Prepared & Analyzed: 05/08/17					
Arsenic	0.0176	0.0060	mg/L		0.0172			2.30	30
Matrix Spike (B7E0825-MS1)				Source: 7E03019-01 Prepared & Analyzed: 05/08/17					
Arsenic	1.01	0.0060	mg/L	1.0		101 75-125		20	
Matrix Spike Dup (B7E0825-MSD1)				Source: 7E03019-01 Prepared & Analyzed: 05/08/17					
Arsenic	0.987	0.0060	mg/L	1.0		98.7 75-125	2.41	20	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332139
Date Received: 05/03/17
Date Reported: 05/17/17

Special Notes

J : Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

Viorel Vasile
Operations Manager



AMERICAN ANALYTICALS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

Tel: 818-998-5547 FAX: 818-998-7258

12898

Page 1 of 1

Client: APEX/The Source Group, Inc. Project Name / No.: DFSP - Norwalk / 091-NDLA Sampler's Name: Glenn Androsky

Project Manager: Neil Irish Site Address: 15306 Norwalk Blvd Sampler's Signature: Glenn Androsky

Phone: 562-597-1055 City: Norwalk P.O. No.:
 Fax: 569-597-1070 State & Zip: CA 90650 Quote No.:

TAT Turnaround Codes **

- ① = Same Day Rush
- ② = 24 Hour Rush
- ③ = 48 Hour Rush
- ④ = 72 Hour Rush
- ⑤ = 5 Day Rush
- X = 10 Working Days (Standard TAT)

ANALYSIS REQUESTED (Test Name)

Client I.D.	Date	Time	Sample Matrix	No. of Cont.	Please enter the TAT Turnaround Codes ** below			Special Instructions
					TPhd 8015M	TPHg/BTEX/Oxys 8208	Arsenic 200.7	
Surge Tank	5-3-17	1252	Water	5	✓	✓		
After GAC-1	02	1247	Water	4	✓			
After GAC-2	03	1242	Water	4	✓			
After Zolite Bed-1	04	1238	Water	1		✓		
After Zolite Bed-2	05	1237	Water	1		✓		

REVIEWED
 3:10 PM 5/3/17
 DATE/TIME SIGNATURE
 TAT NUMBER

Relinquished by	Date	Time	Received by	Time
Glenn Androsky	5-3-17	13:05	[Signature]	
[Signature]	5/3/17	15:05	[Signature]	
[Signature]			[Signature]	

AS332139/7E03020

Note: By relinquishing samples to American Analyticals, client agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analyticals.



9765 Eton Avenue
Chatsworth
California 91311
Tel: (818) 998-5547
Fax: (818) 998-7258

May 16, 2017

Neil Irish

The Source Group, Inc. (SH)
1962 Freeman Ave.
Signal Hill, CA 90755

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5332135 / 7E03016**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 05/03/17 15:05 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytics.

Sincerely,

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5332135
Date Received: 05/03/17
Date Reported: 05/16/17

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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VOCs BTEX/MTBE Vapor GC/MS

Influent	7E03016-01	Vapor	5	05/03/17 12:10	05/03/17 15:05
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VOCs Gasoline Range Organics Vapor

Influent	7E03016-01	Vapor	5	05/03/17 12:10	05/03/17 15:05
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VOCs GRO Vapor as Hexane

Influent	7E03016-01	Vapor	5	05/03/17 12:10	05/03/17 15:05
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Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5332135
Date Received: 05/03/17
Date Reported: 05/16/17
Sampled: 05/03/17
Prepared: 05/03/17
Analyzed: 05/03/17

Influent**7E03016-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	2.2	ug/L	0.50	0.69	ppmv	0.16
Ethylbenzene	0.51	ug/L	0.50	0.12	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	2.2	ug/L	0.50	0.58	ppmv	0.13
o-Xylene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
m,p-Xylenes	1.5	ug/L	1.0	0.35	ppmv	0.23

Surrogates**%REC****%REC Limits**

4-Bromofluorobenzene
Dibromofluoromethane
Toluene-d8

102 %
120 %
99.1 %

70-140
70-140
70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332135
Date Received: 05/03/17
Date Reported: 05/16/17
Sampled: 05/03/17
Prepared: 05/03/17
Analyzed: 05/03/17

Influent**7E03016-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	510	ug/L	20	120	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		91.5 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor as Hexane

AA Project No: A5332135
Date Received: 05/03/17
Date Reported: 05/16/17
Sampled: 05/03/17
Prepared: 05/03/17
Analyzed: 05/03/17

Influent

7E03016-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
GRO as Hexane	510	ug/L	20	140	ppmv	5.7
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		91.5 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5332135
Date Received: 05/03/17
Date Reported: 05/16/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD RPD	RPD Limit	Notes
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VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control

Batch B7E0216 - *** DEFAULT PREP ***

Blank (B7E0216-BLK1)

Prepared & Analyzed: 05/03/17

Benzene	<0.50	0.50	ug/L						
Ethylbenzene	<0.50	0.50	ug/L						
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L						
Toluene	<0.50	0.50	ug/L						
o-Xylene	<0.50	0.50	ug/L						
m,p-Xylenes	<1.0	1.0	ug/L						

Surrogate: 4-Bromofluorobenzene	51.9		ug/L	50		104	70-140		
Surrogate: Dibromofluoromethane	55.8		ug/L	50		112	70-140		
Surrogate: Toluene-d8	50.3		ug/L	50		101	70-140		

LCS (B7E0216-BS1)

Prepared & Analyzed: 05/03/17

Benzene	22.0	0.50	ug/L	20		110	75-125		
Ethylbenzene	20.3	0.50	ug/L	20		102	75-125		
Methyl-tert-Butyl Ether (MTBE)	43.3	2.0	ug/L	40		108	75-125		
Toluene	20.6	0.50	ug/L	20		103	75-125		
o-Xylene	19.2	0.50	ug/L	20		96.2	75-125		
m,p-Xylenes	38.9	1.0	ug/L	40		97.2	75-125		

Surrogate: 4-Bromofluorobenzene	54.0		ug/L	50		108	70-140		
Surrogate: Dibromofluoromethane	52.2		ug/L	50		104	70-140		
Surrogate: Toluene-d8	52.2		ug/L	50		104	70-140		

LCS Dup (B7E0216-BSD1)

Prepared: 05/03/17 Analyzed: 05/04/17

Benzene	20.4	0.50	ug/L	20		102	75-125	7.87	30
Ethylbenzene	21.7	0.50	ug/L	20		109	75-125	6.66	30
Methyl-tert-Butyl Ether (MTBE)	37.3	2.0	ug/L	40		93.2	75-125	15.0	30
Toluene	21.8	0.50	ug/L	20		109	75-125	5.65	30
o-Xylene	20.5	0.50	ug/L	20		102	75-125	6.15	30
m,p-Xylenes	42.0	1.0	ug/L	40		105	75-125	7.86	30

Surrogate: 4-Bromofluorobenzene	54.6		ug/L	50		109	70-140		
Surrogate: Dibromofluoromethane	50.2		ug/L	50		100	70-140		
Surrogate: Toluene-d8	55.7		ug/L	50		111	70-140		

Duplicate (B7E0216-DUP1)

Source: 7E02020-01 Prepared & Analyzed: 05/03/17

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5332135
Date Received: 05/03/17
Date Reported: 05/16/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control

Batch B7E0216 - *** DEFAULT PREP ***

Duplicate (B7E0216-DUP1) Continued Source: 7E02020-01 Prepared & Analyzed: 05/03/17

Benzene	<0.50	0.50	ug/L						30	
Ethylbenzene	<0.50	0.50	ug/L						30	
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L						30	
Toluene	<0.50	0.50	ug/L						30	
o-Xylene	<0.50	0.50	ug/L						30	
m,p-Xylenes	<1.0	1.0	ug/L						30	
Surrogate: 4-Bromofluorobenzene	53.7		ug/L	50		107	70-140			
Surrogate: Dibromofluoromethane	57.7		ug/L	50		115	70-140			
Surrogate: Toluene-d8	51.4		ug/L	50		103	70-140			

Gasoline Range Organics in Vapor by GC/FID - Quality Control

Batch B7E0329 - *** DEFAULT PREP ***

Blank (B7E0329-BLK1) Prepared & Analyzed: 05/03/17

Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	45.4		ug/L	50		90.7	70-130			

LCS (B7E0329-BS1) Prepared & Analyzed: 05/03/17

Gasoline Range Organics (GRO)	463	20	ug/L	500		92.7	75-125			
Surrogate: a,a,a-Trifluorotoluene	47.5		ug/L	50		95.0	70-130			

LCS Dup (B7E0329-BSD1) Prepared & Analyzed: 05/03/17

Gasoline Range Organics (GRO)	475	20	ug/L	500		95.1	75-125	2.58	30	
Surrogate: a,a,a-Trifluorotoluene	46.9		ug/L	50		93.8	70-130			

Duplicate (B7E0329-DUP1) Source: 7E03016-01 Prepared & Analyzed: 05/03/17

Gasoline Range Organics (GRO)	543	20	ug/L			515		5.28	30	
Surrogate: a,a,a-Trifluorotoluene	48.3		ug/L	50		96.6	70-130			

Gasoline Range Organics in Vapor as Hexane - Quality Control

Batch B7E0329 - *** DEFAULT PREP ***

Blank (B7E0329-BLK1) Prepared & Analyzed: 05/03/17

GRO as Hexane	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	45.4		ug/L	50		90.7	70-130			

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5332135
Date Received: 05/03/17
Date Reported: 05/16/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Gasoline Range Organics in Vapor as Hexane - Quality Control									
<i>Batch B7E0329 - *** DEFAULT PREP ***</i>									
LCS (B7E0329-BS1)				Prepared & Analyzed: 05/03/17					
GRO as Hexane	463	20	ug/L	500	92.7	75-125			
Surrogate: a,a,a-Trifluorotoluene	47.5		ug/L	50	95.0	70-130			
LCS Dup (B7E0329-BSD1)				Prepared & Analyzed: 05/03/17					
GRO as Hexane	475	20	ug/L	500	95.1	75-125	2.58	30	
Surrogate: a,a,a-Trifluorotoluene	46.9		ug/L	50	93.8	70-130			
Duplicate (B7E0329-DUP1)				Source: 7E03016-01 Prepared & Analyzed: 05/03/17					
GRO as Hexane	543	20	ug/L		515		5.28	30	
Surrogate: a,a,a-Trifluorotoluene	48.3		ug/L	50	96.6	70-130			

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5332135
Date Received: 05/03/17
Date Reported: 05/16/17

Special Notes

Viorel Vasile
Operations Manager



9765 Eton Avenue
Chatsworth
California 91311
Tel: (818) 998-5547
Fax: (818) 998-7258

May 16, 2017

Neil Irish

The Source Group, Inc. (SH)

1962 Freeman Ave.

Signal Hill, CA 90755

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5332137 / 7E03018**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 05/03/17 15:05 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytics.

Sincerely,

Viorel Vasile

Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5332137
Date Received: 05/03/17
Date Reported: 05/16/17

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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VOCs BTEX/MTBE Vapor GC/MS

HW-3	7E03018-01	Vapor	5	05/03/17 12:00	05/03/17 15:05
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VOCs Gasoline Range Organics Vapor

HW-3	7E03018-01	Vapor	5	05/03/17 12:00	05/03/17 15:05
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VOCs GRO Vapor as Hexane

HW-3	7E03018-01	Vapor	5	05/03/17 12:00	05/03/17 15:05
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Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5332137
Date Received: 05/03/17
Date Reported: 05/16/17
Sampled: 05/03/17
Prepared: 05/03/17
Analyzed: 05/03/17

HW-3**7E03018-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	6.6	ug/L	0.50	2.1	ppmv	0.16
Ethylbenzene	0.64	ug/L	0.50	0.15	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	4.6	ug/L	0.50	1.2	ppmv	0.13
o-Xylene	0.66	ug/L	0.50	0.15	ppmv	0.12
m,p-Xylenes	2.2	ug/L	1.0	0.51	ppmv	0.23

Surrogates**%REC****%REC Limits**

4-Bromofluorobenzene
Dibromofluoromethane
Toluene-d8

105 %
118 %
100 %

70-140
70-140
70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332137
Date Received: 05/03/17
Date Reported: 05/16/17
Sampled: 05/03/17
Prepared: 05/03/17
Analyzed: 05/03/17

HW-3**7E03018-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	1000	ug/L	20	240	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		104 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor as Hexane

AA Project No: A5332137
Date Received: 05/03/17
Date Reported: 05/16/17
Sampled: 05/03/17
Prepared: 05/03/17
Analyzed: 05/03/17

HW-3**7E03018-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
GRO as Hexane	1000	ug/L	20	280	ppmv	5.7
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		104 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5332137
Date Received: 05/03/17
Date Reported: 05/16/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD RPD	RPD Limit	Notes
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VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control

Batch B7E0216 - *** DEFAULT PREP ***

Blank (B7E0216-BLK1)

Prepared & Analyzed: 05/03/17

Benzene	<0.50	0.50	ug/L						
Ethylbenzene	<0.50	0.50	ug/L						
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L						
Toluene	<0.50	0.50	ug/L						
o-Xylene	<0.50	0.50	ug/L						
m,p-Xylenes	<1.0	1.0	ug/L						

Surrogate: 4-Bromofluorobenzene	51.9		ug/L	50		104	70-140		
Surrogate: Dibromofluoromethane	55.8		ug/L	50		112	70-140		
Surrogate: Toluene-d8	50.3		ug/L	50		101	70-140		

LCS (B7E0216-BS1)

Prepared & Analyzed: 05/03/17

Benzene	22.0	0.50	ug/L	20		110	75-125		
Ethylbenzene	20.3	0.50	ug/L	20		102	75-125		
Methyl-tert-Butyl Ether (MTBE)	43.3	2.0	ug/L	40		108	75-125		
Toluene	20.6	0.50	ug/L	20		103	75-125		
o-Xylene	19.2	0.50	ug/L	20		96.2	75-125		
m,p-Xylenes	38.9	1.0	ug/L	40		97.2	75-125		

Surrogate: 4-Bromofluorobenzene	54.0		ug/L	50		108	70-140		
Surrogate: Dibromofluoromethane	52.2		ug/L	50		104	70-140		
Surrogate: Toluene-d8	52.2		ug/L	50		104	70-140		

LCS Dup (B7E0216-BSD1)

Prepared: 05/03/17 Analyzed: 05/04/17

Benzene	20.4	0.50	ug/L	20		102	75-125	7.87	30
Ethylbenzene	21.7	0.50	ug/L	20		109	75-125	6.66	30
Methyl-tert-Butyl Ether (MTBE)	37.3	2.0	ug/L	40		93.2	75-125	15.0	30
Toluene	21.8	0.50	ug/L	20		109	75-125	5.65	30
o-Xylene	20.5	0.50	ug/L	20		102	75-125	6.15	30
m,p-Xylenes	42.0	1.0	ug/L	40		105	75-125	7.86	30

Surrogate: 4-Bromofluorobenzene	54.6		ug/L	50		109	70-140		
Surrogate: Dibromofluoromethane	50.2		ug/L	50		100	70-140		
Surrogate: Toluene-d8	55.7		ug/L	50		111	70-140		

Duplicate (B7E0216-DUP1)

Source: 7E02020-01 Prepared & Analyzed: 05/03/17

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5332137
Date Received: 05/03/17
Date Reported: 05/16/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control

Batch B7E0216 - *** DEFAULT PREP ***

Duplicate (B7E0216-DUP1) Continued Source: 7E02020-01 Prepared & Analyzed: 05/03/17

Benzene	<0.50	0.50	ug/L						30	
Ethylbenzene	<0.50	0.50	ug/L						30	
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L						30	
Toluene	<0.50	0.50	ug/L						30	
o-Xylene	<0.50	0.50	ug/L						30	
m,p-Xylenes	<1.0	1.0	ug/L						30	
Surrogate: 4-Bromofluorobenzene	53.7		ug/L	50		107	70-140			
Surrogate: Dibromofluoromethane	57.7		ug/L	50		115	70-140			
Surrogate: Toluene-d8	51.4		ug/L	50		103	70-140			

Gasoline Range Organics in Vapor by GC/FID - Quality Control

Batch B7E0329 - *** DEFAULT PREP ***

Blank (B7E0329-BLK1) Prepared & Analyzed: 05/03/17

Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	45.4		ug/L	50		90.7	70-130			

LCS (B7E0329-BS1) Prepared & Analyzed: 05/03/17

Gasoline Range Organics (GRO)	463	20	ug/L	500		92.7	75-125			
Surrogate: a,a,a-Trifluorotoluene	47.5		ug/L	50		95.0	70-130			

LCS Dup (B7E0329-BSD1) Prepared & Analyzed: 05/03/17

Gasoline Range Organics (GRO)	475	20	ug/L	500		95.1	75-125	2.58	30	
Surrogate: a,a,a-Trifluorotoluene	46.9		ug/L	50		93.8	70-130			

Duplicate (B7E0329-DUP1) Source: 7E03016-01 Prepared & Analyzed: 05/03/17

Gasoline Range Organics (GRO)	543	20	ug/L			515		5.28	30	
Surrogate: a,a,a-Trifluorotoluene	48.3		ug/L	50		96.6	70-130			

Gasoline Range Organics in Vapor as Hexane - Quality Control

Batch B7E0329 - *** DEFAULT PREP ***

Blank (B7E0329-BLK1) Prepared & Analyzed: 05/03/17

GRO as Hexane	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	45.4		ug/L	50		90.7	70-130			

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5332137
Date Received: 05/03/17
Date Reported: 05/16/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
Gasoline Range Organics in Vapor as Hexane - Quality Control										
<i>Batch B7E0329 - *** DEFAULT PREP ***</i>										
LCS (B7E0329-BS1)				Prepared & Analyzed: 05/03/17						
GRO as Hexane	463	20	ug/L	500	92.7	75-125				
Surrogate: a,a,a-Trifluorotoluene	47.5		ug/L	50	95.0	70-130				
LCS Dup (B7E0329-BSD1)				Prepared & Analyzed: 05/03/17						
GRO as Hexane	475	20	ug/L	500	95.1	75-125	2.58	30		
Surrogate: a,a,a-Trifluorotoluene	46.9		ug/L	50	93.8	70-130				
Duplicate (B7E0329-DUP1)				Source: 7E03016-01 Prepared & Analyzed: 05/03/17						
GRO as Hexane	543	20	ug/L		515		5.28	30		
Surrogate: a,a,a-Trifluorotoluene	48.3		ug/L	50	96.6	70-130				

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5332137
Date Received: 05/03/17
Date Reported: 05/16/17

Special Notes

Viorel Vasile
Operations Manager



9765 Eton Avenue
Chatsworth
California 91311
Tel: (818) 998-5547
Fax: (818) 998-7258

June 19, 2017

Neil Irish

The Source Group, Inc. (SH)
1962 Freeman Ave.
Signal Hill, CA 90755

**Re : DFSP Norwalk GWETS NPDES Monthly / 04-NDLA-013
A5332195 / 7F05013**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 06/05/17 14:35 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytics.

Sincerely,

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332195
Date Received: 06/05/17
Date Reported: 06/19/17

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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8260B TPHGASOLINEBTEXOXY

Surge Tank	7F05013-01	Water	5	06/05/17 10:55	06/05/17 14:35
After GAC-1	7F05013-02	Water	5	06/05/17 10:49	06/05/17 14:35
After GAC-2	7F05013-03	Water	5	06/05/17 10:44	06/05/17 14:35

Arsenic Total EPA 200.7

Surge Tank	7F05013-01	Water	5	06/05/17 10:55	06/05/17 14:35
After Zeolite Bed-1	7F05013-04	Water	5	06/05/17 10:37	06/05/17 14:35
After Zeolite Bed-2	7F05013-05	Water	5	06/05/17 10:36	06/05/17 14:35

Diesel Range Organics 8015M

Surge Tank	7F05013-01	Water	5	06/05/17 10:55	06/05/17 14:35
After GAC-1	7F05013-02	Water	5	06/05/17 10:49	06/05/17 14:35
After GAC-2	7F05013-03	Water	5	06/05/17 10:44	06/05/17 14:35

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly
Method: TPHG/BTEX/Oxygenates by GC/MS

AA Project No: A5332195
Date Received: 06/05/17
Date Reported: 06/19/17
Units: ug/L

Date Sampled:	06/05/17	06/05/17	06/05/17		
Date Prepared:	06/12/17	06/12/17	06/12/17		
Date Analyzed:	06/12/17	06/12/17	06/12/17		
AA ID No:	7F05013-01	7F05013-02	7F05013-03		
Client ID No:	Surge Tank	After GAC-1	After GAC-2		
Matrix:	Water	Water	Water		
Dilution Factor:	1	1	1	MDL	MRL

8260B TPHGASOLINEBTEXOXY (EPA 8260B)

tert-Amyl Methyl Ether (TAME)	<0.30	<0.30	<0.30	0.30	2.0
Benzene	5.0	<0.20	<0.20	0.20	0.50
tert-Butyl alcohol (TBA)	<7.0	<7.0	<7.0	7.0	10
Diisopropyl ether (DIPE)	<0.50	<0.50	<0.50	0.50	2.0
Ethylbenzene	<0.20	<0.20	<0.20	0.20	0.50
Ethyl-tert-Butyl Ether (ETBE)	<0.40	<0.40	<0.40	0.40	2.0
Gasoline Range Organics (GRO)	<40	<40	<40	40	100
Methyl-tert-Butyl Ether (MTBE)	<0.40	<0.40	<0.40	0.40	2.0
Toluene	<0.30	<0.30	<0.30	0.30	0.50
o-Xylene	<0.30	<0.30	<0.30	0.30	0.50
m,p-Xylenes	0.50 J	<0.40	<0.40	0.40	1.0

Surrogates

				%REC Limits
4-Bromofluorobenzene	97%	99%	101%	70-140
Dibromofluoromethane	84%	86%	87%	70-140
Toluene-d8	106%	106%	105%	70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly
Method: Diesel Range Organics by GC/FID

AA Project No: A5332195
Date Received: 06/05/17
Date Reported: 06/19/17
Units: ug/L

Date Sampled:	06/05/17	06/05/17	06/05/17		
Date Prepared:	06/08/17	06/08/17	06/08/17		
Date Analyzed:	06/08/17	06/08/17	06/08/17		
AA ID No:	7F05013-01	7F05013-02	7F05013-03		
Client ID No:	Surge Tank	After GAC-1	After GAC-2		
Matrix:	Water	Water	Water		
Dilution Factor:	1	1	1	MDL	MRL

Diesel Range Organics 8015M (EPA 8015M)

Diesel Range Organics as Diesel	62 J	<60	<60	60	100
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Surrogates

o-Terphenyl	94%	108%	97%	<u>%REC Limits</u>	50-150
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Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly
Method: Total Metals by ICP Atomic Emission Spectroscopy

AA Project No: A5332195
Date Received: 06/05/17
Date Reported: 06/19/17

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MDL	MRL
<u>Arsenic Total EPA 200.7 (EPA 200.7)</u>									
7F05013-01	Surge Tank	06/05/17	06/10/17	06/13/17	1	0.035	mg/L	0.006	0.007
7F05013-04	After Zeolite Bed-1	06/05/17	06/10/17	06/13/17	1	0.026	mg/L	0.006	0.007
7F05013-05	After Zeolite Bed-2	06/05/17	06/10/17	06/13/17	1	0.026	mg/L	0.006	0.007

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332195
Date Received: 06/05/17
Date Reported: 06/19/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	RPD Limit	Notes
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TPHG/BTEX/Oxygenates by GC/MS - Quality Control

Batch B7F1216 - EPA 5030B

Blank (B7F1216-BLK1)

Prepared & Analyzed: 06/12/17

tert-Amyl Methyl Ether (TAME)	<0.30	0.30	ug/L
Benzene	<0.20	0.20	ug/L
tert-Butyl alcohol (TBA)	<7.0	7.0	ug/L
Diisopropyl ether (DIPE)	<0.50	0.50	ug/L
Ethylbenzene	<0.20	0.20	ug/L
Ethyl-tert-Butyl Ether (ETBE)	<0.40	0.40	ug/L
Gasoline Range Organics (GRO)	<40	40	ug/L
Methyl-tert-Butyl Ether (MTBE)	<0.40	0.40	ug/L
Toluene	<0.30	0.30	ug/L
o-Xylene	<0.30	0.30	ug/L
m,p-Xylenes	<0.40	0.40	ug/L

Surrogate: 4-Bromofluorobenzene	49.6		ug/L	50	99.3	70-140
Surrogate: Dibromofluoromethane	47.2		ug/L	50	94.5	70-140
Surrogate: Toluene-d8	50.0		ug/L	50	100	70-140

LCS (B7F1216-BS1)

Prepared: 06/12/17 Analyzed: 06/13/17

tert-Amyl Methyl Ether (TAME)	16.4	0.30	ug/L	20	82.2	70-130
Benzene	19.9	0.20	ug/L	20	99.4	75-125
tert-Butyl alcohol (TBA)	83.8	7.0	ug/L	100	83.8	70-130
Diisopropyl ether (DIPE)	20.6	0.50	ug/L	20	103	70-130
Ethylbenzene	20.2	0.20	ug/L	20	101	75-125
Ethyl-tert-Butyl Ether (ETBE)	18.7	0.40	ug/L	20	93.4	70-130
Gasoline Range Organics (GRO)	493	40	ug/L	500	98.6	70-130
Methyl-tert-Butyl Ether (MTBE)	34.6	0.40	ug/L	40	86.6	70-135
Toluene	19.9	0.30	ug/L	20	99.7	75-125
o-Xylene	20.1	0.30	ug/L	20	101	75-125
m,p-Xylenes	42.7	0.40	ug/L	40	107	70-130

Surrogate: 4-Bromofluorobenzene	48.1		ug/L	50	96.2	70-140
Surrogate: Dibromofluoromethane	51.3		ug/L	50	103	70-140
Surrogate: Toluene-d8	50.8		ug/L	50	102	70-140

Matrix Spike (B7F1216-MS1)

Source: 7F05014-01 Prepared & Analyzed: 06/12/17

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332195
Date Received: 06/05/17
Date Reported: 06/19/17

Table with 11 columns: Analyte, Reporting Result, Reporting Limit, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Notes

TPHG/BTEX/Oxygenates by GC/MS - Quality Control

Batch B7F1216 - EPA 5030B

Matrix Spike (B7F1216-MS1) Continued Source: 7F05014-01 Prepared & Analyzed: 06/12/17

Table listing analytes like tert-Amyl Methyl Ether (TAME), Benzene, tert-Butyl alcohol (TBA) with their respective results and limits.

Table listing surrogate analytes: 4-Bromofluorobenzene, Dibromofluoromethane, Toluene-d8 with their results and limits.

Matrix Spike Dup (B7F1216-MSD1) Source: 7F05014-01 Prepared & Analyzed: 06/12/17

Table listing analytes like tert-Amyl Methyl Ether (TAME), Benzene, tert-Butyl alcohol (TBA) with their respective results and limits.

Table listing surrogate analytes: 4-Bromofluorobenzene, Dibromofluoromethane, Toluene-d8 with their results and limits.

Diesel Range Organics by GC/FID - Quality Control

Batch B7F0825 - EPA 3510C

Blank (B7F0825-BLK1) Prepared & Analyzed: 06/08/17

Handwritten signature

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332195
Date Received: 06/05/17
Date Reported: 06/19/17

Analyte	Reporting Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD RPD	RPD Limit	Notes
Diesel Range Organics by GC/FID - Quality Control									
<i>Batch B7F0825 - EPA 3510C</i>									
Blank (B7F0825-BLK1) Continued				Prepared & Analyzed: 06/08/17					
Diesel Range Organics as Diesel	<60	60	ug/L						
Surrogate: o-Terphenyl	41.1		ug/L	40		103 50-150			
LCS (B7F0825-BS1)				Prepared & Analyzed: 06/08/17					
Diesel Range Organics as Diesel	925	60	ug/L	800		116 75-125		30	
Surrogate: o-Terphenyl	50.6		ug/L	40		127 50-150			
LCS Dup (B7F0825-BSD1)				Prepared & Analyzed: 06/08/17					
Diesel Range Organics as Diesel	981	60	ug/L	800		123 75-125	5.90	30	
Surrogate: o-Terphenyl	52.6		ug/L	40		132 50-150			
Total Metals by ICP Atomic Emission Spectroscopy - Quality Control									
<i>Batch B7F1528 - EPA 200.7</i>									
Blank (B7F1528-BLK1)				Prepared: 06/10/17 Analyzed: 06/13/17					
Arsenic	<0.0060	0.0060	mg/L						
LCS (B7F1528-BS1)				Prepared: 06/10/17 Analyzed: 06/13/17					
Arsenic	0.988	0.0060	mg/L	1.0		98.8 80-120		20	
LCS Dup (B7F1528-BSD1)				Prepared: 06/10/17 Analyzed: 06/13/17					
Arsenic	1.02	0.0060	mg/L	1.0		102 80-120	2.95	20	
Duplicate (B7F1528-DUP1)				Prepared: 06/10/17 Analyzed: 06/13/17					
Arsenic	0.0258	0.0060	mg/L		0.0255		1.17	30	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332195
Date Received: 06/05/17
Date Reported: 06/19/17

Special Notes

J : Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

Viorel Vasile
Operations Manager



9765 Eton Avenue
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California 91311
Tel: (818) 998-5547
Fax: (818) 998-7258

June 15, 2017

Neil Irish

The Source Group, Inc. (SH)
1962 Freeman Ave.
Signal Hill, CA 90755

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5332194 / 7F05012**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 06/05/17 14:35 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytics.

Sincerely,

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5332194
Date Received: 06/05/17
Date Reported: 06/15/17

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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VOCs BTEX/MTBE Vapor GC/MS

Influent	7F05012-01	Vapor	5	06/05/17 09:54	06/05/17 14:35
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VOCs Gasoline Range Organics Vapor

Influent	7F05012-01	Vapor	5	06/05/17 09:54	06/05/17 14:35
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VOCs GRO Vapor as Hexane

Influent	7F05012-01	Vapor	5	06/05/17 09:54	06/05/17 14:35
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Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5332194
Date Received: 06/05/17
Date Reported: 06/15/17
Sampled: 06/05/17
Prepared: 06/07/17
Analyzed: 06/07/17

Influent**7F05012-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	2.6	ug/L	0.50	0.81	ppmv	0.16
Ethylbenzene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	1.5	ug/L	0.50	0.40	ppmv	0.13
o-Xylene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
m,p-Xylenes	<1.0	ug/L	1.0	<0.23	ppmv	0.23

Surrogates**%REC****%REC Limits**

4-Bromofluorobenzene
Dibromofluoromethane
Toluene-d8

105 %
123 %
94.8 %

70-140
70-140
70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332194
Date Received: 06/05/17
Date Reported: 06/15/17
Sampled: 06/05/17
Prepared: 06/07/17
Analyzed: 06/07/17

Influent**7F05012-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	430	ug/L	20	110	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		93.4 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor as Hexane

AA Project No: A5332194
Date Received: 06/05/17
Date Reported: 06/15/17
Sampled: 06/05/17
Prepared: 06/07/17
Analyzed: 06/07/17

Influent**7F05012-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
GRO as Hexane	430	ug/L	20	120	ppmv	5.7
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		93.4 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5332194
Date Received: 06/05/17
Date Reported: 06/15/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD RPD	RPD Limit	Notes
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VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control

Batch B7F0730 - *** DEFAULT PREP ***

Blank (B7F0730-BLK1)

Prepared & Analyzed: 06/07/17

Benzene	<0.50	0.50	ug/L						
Ethylbenzene	<0.50	0.50	ug/L						
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L						
Toluene	<0.50	0.50	ug/L						
o-Xylene	<0.50	0.50	ug/L						
m,p-Xylenes	<1.0	1.0	ug/L						

Surrogate: 4-Bromofluorobenzene	53.6		ug/L	50		107	70-140		
Surrogate: Dibromofluoromethane	49.8		ug/L	50		99.5	70-140		
Surrogate: Toluene-d8	53.9		ug/L	50		108	70-140		

LCS (B7F0730-BS1)

Prepared & Analyzed: 06/07/17

Benzene	20.2	0.50	ug/L	20		101	75-125		
Ethylbenzene	21.4	0.50	ug/L	20		107	75-125		
Methyl-tert-Butyl Ether (MTBE)	34.4	2.0	ug/L	40		85.9	75-125		
Toluene	21.1	0.50	ug/L	20		106	75-125		
o-Xylene	20.0	0.50	ug/L	20		100	75-125		
m,p-Xylenes	40.8	1.0	ug/L	40		102	75-125		

Surrogate: 4-Bromofluorobenzene	48.1		ug/L	50		96.2	70-140		
Surrogate: Dibromofluoromethane	47.4		ug/L	50		94.7	70-140		
Surrogate: Toluene-d8	50.8		ug/L	50		102	70-140		

Duplicate (B7F0730-DUP1)

Source: 7F05012-02 Prepared & Analyzed: 06/07/17

Benzene	<0.25	0.25	ug/L						30
Ethylbenzene	<0.25	0.25	ug/L						30
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L						30
Toluene	<0.25	0.25	ug/L						30
o-Xylene	<0.25	0.25	ug/L						30
m,p-Xylenes	<0.50	0.50	ug/L						30

Surrogate: 4-Bromofluorobenzene	58.7		ug/L	50		117	70-140		
Surrogate: Dibromofluoromethane	62.8		ug/L	50		126	70-140		
Surrogate: Toluene-d8	52.1		ug/L	50		104	70-140		

Gasoline Range Organics in Vapor by GC/FID - Quality Control

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5332194
Date Received: 06/05/17
Date Reported: 06/15/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Gasoline Range Organics in Vapor by GC/FID - Quality Control

Batch B7F0740 - *** DEFAULT PREP ***

Blank (B7F0740-BLK1)

Prepared & Analyzed: 06/07/17

Gasoline Range Organics (GRO)	<20	20	ug/L							
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Surrogate: a,a,a-Trifluorotoluene	43.9		ug/L	50		87.8	70-130			
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LCS (B7F0740-BS1)

Prepared & Analyzed: 06/07/17

Gasoline Range Organics (GRO)	438	20	ug/L	500		87.6	75-125			
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Surrogate: a,a,a-Trifluorotoluene	45.8		ug/L	50		91.6	70-130			
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LCS Dup (B7F0740-BSD1)

Prepared & Analyzed: 06/07/17

Gasoline Range Organics (GRO)	443	20	ug/L	500		88.6	75-125	1.17	30	
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Surrogate: a,a,a-Trifluorotoluene	44.9		ug/L	50		89.9	70-130			
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Duplicate (B7F0740-DUP1)

Source: 7F05012-01 Prepared & Analyzed: 06/07/17

Gasoline Range Organics (GRO)	416	20	ug/L		434			4.26	30	
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Surrogate: a,a,a-Trifluorotoluene	49.1		ug/L	50		98.1	70-130			
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Gasoline Range Organics in Vapor as Hexane - Quality Control

Batch B7F0740 - *** DEFAULT PREP ***

Blank (B7F0740-BLK1)

Prepared & Analyzed: 06/07/17

GRO as Hexane	<20	20	ug/L							
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Surrogate: a,a,a-Trifluorotoluene	43.9		ug/L	50		87.8	70-130			
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LCS (B7F0740-BS1)

Prepared & Analyzed: 06/07/17

GRO as Hexane	438	20	ug/L	500		87.6	75-125			
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Surrogate: a,a,a-Trifluorotoluene	45.8		ug/L	50		91.6	70-130			
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LCS Dup (B7F0740-BSD1)

Prepared & Analyzed: 06/07/17

GRO as Hexane	443	20	ug/L	500		88.6	75-125	1.17	30	
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Surrogate: a,a,a-Trifluorotoluene	44.9		ug/L	50		89.9	70-130			
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Duplicate (B7F0740-DUP1)

Source: 7F05012-01 Prepared & Analyzed: 06/07/17

GRO as Hexane	416	20	ug/L		434			4.26	30	
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Surrogate: a,a,a-Trifluorotoluene	49.1		ug/L	50		98.1	70-130			
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5332194
Date Received: 06/05/17
Date Reported: 06/15/17

Special Notes

Viorel Vasile
Operations Manager



9765 Eton Avenue
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Tel: (818) 998-5547
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July 06, 2017

Neil Irish

The Source Group, Inc. (SH)
1962 Freeman Ave.
Signal Hill, CA 90755

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5332226 / 7F28011**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 06/28/17 15:36 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytics.

Sincerely,

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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VOCs BTEX/MTBE Vapor GC/MS

VEW-32	7F28011-01	Vapor	5	06/27/17 09:05	06/28/17 15:36
VEW-33	7F28011-02	Vapor	5	06/27/17 08:45	06/28/17 15:36
VEW-34	7F28011-03	Vapor	5	06/27/17 08:25	06/28/17 15:36
VEW-35	7F28011-04	Vapor	5	06/27/17 08:20	06/28/17 15:36
VEW-36	7F28011-05	Vapor	5	06/27/17 08:50	06/28/17 15:36
VEW-37	7F28011-06	Vapor	5	06/27/17 09:08	06/28/17 15:36
VEW-38	7F28011-07	Vapor	5	06/27/17 10:42	06/28/17 15:36
VEW-39	7F28011-08	Vapor	5	06/27/17 10:50	06/28/17 15:36
VEW-40	7F28011-09	Vapor	5	06/27/17 10:23	06/28/17 15:36
East Trunk Line	7F28011-10	Vapor	5	06/27/17 09:25	06/28/17 15:36
SouthTrunk Line	7F28011-11	Vapor	5	06/27/17 11:04	06/28/17 15:36
System Influent	7F28011-12	Vapor	5	06/27/17 11:15	06/28/17 15:36

VOCs Gasoline Range Organics Vapor

VEW-32	7F28011-01	Vapor	5	06/27/17 09:05	06/28/17 15:36
VEW-33	7F28011-02	Vapor	5	06/27/17 08:45	06/28/17 15:36
VEW-34	7F28011-03	Vapor	5	06/27/17 08:25	06/28/17 15:36
VEW-35	7F28011-04	Vapor	5	06/27/17 08:20	06/28/17 15:36
VEW-36	7F28011-05	Vapor	5	06/27/17 08:50	06/28/17 15:36

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
VEW-37	7F28011-06	Vapor	5	06/27/17 09:08	06/28/17 15:36
VEW-38	7F28011-07	Vapor	5	06/27/17 10:42	06/28/17 15:36
VEW-39	7F28011-08	Vapor	5	06/27/17 10:50	06/28/17 15:36
VEW-40	7F28011-09	Vapor	5	06/27/17 10:23	06/28/17 15:36
East Trunk Line	7F28011-10	Vapor	5	06/27/17 09:25	06/28/17 15:36
SouthTrunk Line	7F28011-11	Vapor	5	06/27/17 11:04	06/28/17 15:36
System Influent	7F28011-12	Vapor	5	06/27/17 11:15	06/28/17 15:36

VOCs GRO Vapor as Hexane

VEW-32	7F28011-01	Vapor	5	06/27/17 09:05	06/28/17 15:36
VEW-33	7F28011-02	Vapor	5	06/27/17 08:45	06/28/17 15:36
VEW-34	7F28011-03	Vapor	5	06/27/17 08:25	06/28/17 15:36
VEW-35	7F28011-04	Vapor	5	06/27/17 08:20	06/28/17 15:36
VEW-36	7F28011-05	Vapor	5	06/27/17 08:50	06/28/17 15:36
VEW-37	7F28011-06	Vapor	5	06/27/17 09:08	06/28/17 15:36
VEW-38	7F28011-07	Vapor	5	06/27/17 10:42	06/28/17 15:36
VEW-39	7F28011-08	Vapor	5	06/27/17 10:50	06/28/17 15:36
VEW-40	7F28011-09	Vapor	5	06/27/17 10:23	06/28/17 15:36
East Trunk Line	7F28011-10	Vapor	5	06/27/17 09:25	06/28/17 15:36
SouthTrunk Line	7F28011-11	Vapor	5	06/27/17 11:04	06/28/17 15:36
System Influent	7F28011-12	Vapor	5	06/27/17 11:15	06/28/17 15:36

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17
Sampled: 06/27/17
Prepared: 06/28/17
Analyzed: 06/28/17

VEW-32

7F28011-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	<0.50	ug/L	0.50	<0.16	ppmv	0.16
Ethylbenzene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	<0.50	ug/L	0.50	<0.13	ppmv	0.13
o-Xylene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
m,p-Xylenes	<1.0	ug/L	1.0	<0.23	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	90.9 %	70-140
Dibromofluoromethane	94.8 %	70-140
Toluene-d8	95.8 %	70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17
Sampled: 06/27/17
Prepared: 06/29/17
Analyzed: 06/29/17

VEW-33**7F28011-02 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	<0.50	ug/L	0.50	<0.16	ppmv	0.16
Ethylbenzene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	<0.50	ug/L	0.50	<0.13	ppmv	0.13
o-Xylene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
m,p-Xylenes	<1.0	ug/L	1.0	<0.23	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	92.7 %	70-140
Dibromofluoromethane	104 %	70-140
Toluene-d8	96.0 %	70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17
Sampled: 06/27/17
Prepared: 06/30/17
Analyzed: 06/30/17

VEW-34**7F28011-03 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	<0.50	ug/L	0.50	<0.16	ppmv	0.16
Ethylbenzene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	<0.50	ug/L	0.50	<0.13	ppmv	0.13
o-Xylene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
m,p-Xylenes	<1.0	ug/L	1.0	<0.23	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	92.2 %	70-140
Dibromofluoromethane	93.8 %	70-140
Toluene-d8	96.6 %	70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17
Sampled: 06/27/17
Prepared: 06/29/17
Analyzed: 06/29/17

VEW-35**7F28011-04 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	<0.50	ug/L	0.50	<0.16	ppmv	0.16
Ethylbenzene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	<0.50	ug/L	0.50	<0.13	ppmv	0.13
o-Xylene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
m,p-Xylenes	<1.0	ug/L	1.0	<0.23	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	94.3 %	70-140
Dibromofluoromethane	100 %	70-140
Toluene-d8	96.8 %	70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17
Sampled: 06/27/17
Prepared: 06/29/17
Analyzed: 06/29/17

VEW-36

7F28011-05 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	<0.50	ug/L	0.50	<0.16	ppmv	0.16
Ethylbenzene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	<0.50	ug/L	0.50	<0.13	ppmv	0.13
o-Xylene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
m,p-Xylenes	<1.0	ug/L	1.0	<0.23	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	93.9 %	70-140
Dibromofluoromethane	100 %	70-140
Toluene-d8	96.8 %	70-140

Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17
Sampled: 06/27/17
Prepared: 06/29/17
Analyzed: 06/29/17

VEW-37**7F28011-06 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	<0.50	ug/L	0.50	<0.16	ppmv	0.16
Ethylbenzene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	<0.50	ug/L	0.50	<0.13	ppmv	0.13
o-Xylene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
m,p-Xylenes	<1.0	ug/L	1.0	<0.23	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	92.8 %	70-140
Dibromofluoromethane	100 %	70-140
Toluene-d8	96.3 %	70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17
Sampled: 06/27/17
Prepared: 06/29/17
Analyzed: 06/29/17

VEW-38**7F28011-07 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	<0.50	ug/L	0.50	<0.16	ppmv	0.16
Ethylbenzene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	<0.50	ug/L	0.50	<0.13	ppmv	0.13
o-Xylene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
m,p-Xylenes	<1.0	ug/L	1.0	<0.23	ppmv	0.23

Surrogates**%REC****%REC Limits**

4-Bromofluorobenzene
Dibromofluoromethane
Toluene-d8

89.9 %
99.5 %
99.2 %

70-140
70-140
70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17
Sampled: 06/27/17
Prepared: 06/29/17
Analyzed: 06/29/17

VEW-39**7F28011-08 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	<0.50	ug/L	0.50	<0.16	ppmv	0.16
Ethylbenzene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	<0.50	ug/L	0.50	<0.13	ppmv	0.13
o-Xylene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
m,p-Xylenes	<1.0	ug/L	1.0	<0.23	ppmv	0.23

Surrogates**%REC****%REC Limits**

4-Bromofluorobenzene
Dibromofluoromethane
Toluene-d8

91.8 %
99.1 %
94.6 %

70-140
70-140
70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17
Sampled: 06/27/17
Prepared: 06/29/17
Analyzed: 06/29/17

VEW-40**7F28011-09 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	0.88	ug/L	0.50	0.28	ppmv	0.16
Ethylbenzene	4.3	ug/L	0.50	0.99	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	<0.50	ug/L	0.50	<0.13	ppmv	0.13
o-Xylene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
m,p-Xylenes	3.5	ug/L	1.0	0.81	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	80.2 %	70-140
Dibromofluoromethane	91.5 %	70-140
Toluene-d8	93.6 %	70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17
Sampled: 06/27/17
Prepared: 06/29/17
Analyzed: 06/30/17

East Trunk Line
7F28011-10 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	<0.50	ug/L	0.50	<0.16	ppmv	0.16
Ethylbenzene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	<0.50	ug/L	0.50	<0.13	ppmv	0.13
o-Xylene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
m,p-Xylenes	<1.0	ug/L	1.0	<0.23	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	86.4 %	70-140
Dibromofluoromethane	90.3 %	70-140
Toluene-d8	93.5 %	70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17
Sampled: 06/27/17
Prepared: 06/28/17
Analyzed: 06/28/17

SouthTrunk Line
7F28011-11 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	<0.50	ug/L	0.50	<0.16	ppmv	0.16
Ethylbenzene	2.0	ug/L	0.50	0.46	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	<0.50	ug/L	0.50	<0.13	ppmv	0.13
o-Xylene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
m,p-Xylenes	1.8	ug/L	1.0	0.41	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	94.5 %	70-140
Dibromofluoromethane	92.3 %	70-140
Toluene-d8	99.5 %	70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17
Sampled: 06/27/17
Prepared: 06/29/17
Analyzed: 06/30/17

System Influent**7F28011-12 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	1.2	ug/L	0.50	0.38	ppmv	0.16
Ethylbenzene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	0.75	ug/L	0.50	0.20	ppmv	0.13
o-Xylene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
m,p-Xylenes	<1.0	ug/L	1.0	<0.23	ppmv	0.23

Surrogates**%REC****%REC Limits**

4-Bromofluorobenzene
Dibromofluoromethane
Toluene-d8

85.8 %
93.2 %
94.1 %

70-140
70-140
70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17
Sampled: 06/27/17
Prepared: 06/28/17
Analyzed: 06/28/17

VEW-32**7F28011-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		105 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17
Sampled: 06/27/17
Prepared: 06/28/17
Analyzed: 06/28/17

VEW-33**7F28011-02 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		101 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17
Sampled: 06/27/17
Prepared: 06/28/17
Analyzed: 06/28/17

VEW-34**7F28011-03 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		101 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17
Sampled: 06/27/17
Prepared: 06/28/17
Analyzed: 06/28/17

VEW-35**7F28011-04 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		99.2 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17
Sampled: 06/27/17
Prepared: 06/28/17
Analyzed: 06/28/17

VEW-36**7F28011-05 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		96.3 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17
Sampled: 06/27/17
Prepared: 06/28/17
Analyzed: 06/28/17

VEW-37**7F28011-06 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		92.9 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17
Sampled: 06/27/17
Prepared: 06/29/17
Analyzed: 06/29/17

VEW-38**7F28011-07 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	150	ug/L	20	37	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		95.5 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17
Sampled: 06/27/17
Prepared: 06/29/17
Analyzed: 06/29/17

VEW-39**7F28011-08 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	150	ug/L	20	37	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		93.7 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 25
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17
Sampled: 06/27/17
Prepared: 06/29/17
Analyzed: 06/29/17

VEW-40**7F28011-09 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	11000	ug/L	20	2700	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		100 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17
Sampled: 06/27/17
Prepared: 06/29/17
Analyzed: 06/29/17

East Trunk Line**7F28011-10 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	43	ug/L	20	11	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		93.1 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17
Sampled: 06/27/17
Prepared: 06/28/17
Analyzed: 06/28/17

SouthTrunk Line**7F28011-11 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	1700	ug/L	20	420	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		94.2 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17
Sampled: 06/27/17
Prepared: 06/29/17
Analyzed: 06/29/17

System Influent**7F28011-12 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	560	ug/L	20	140	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		94.4 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor as Hexane

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17
Sampled: 06/27/17
Prepared: 06/28/17
Analyzed: 06/28/17

VEW-32**7F28011-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
GRO as Hexane	<20	ug/L	20	<5.7	ppmv	5.7
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		105 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor as Hexane

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17
Sampled: 06/27/17
Prepared: 06/28/17
Analyzed: 06/28/17

VEW-33**7F28011-02 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
GRO as Hexane	<20	ug/L	20	<5.7	ppmv	5.7
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		101 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor as Hexane

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17
Sampled: 06/27/17
Prepared: 06/28/17
Analyzed: 06/28/17

VEW-34

7F28011-03 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
GRO as Hexane	<20	ug/L	20	<5.7	ppmv	5.7
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		101 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor as Hexane

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17
Sampled: 06/27/17
Prepared: 06/28/17
Analyzed: 06/28/17

VEW-35

7F28011-04 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
GRO as Hexane	<20	ug/L	20	<5.7	ppmv	5.7
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		99.2 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor as Hexane

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17
Sampled: 06/27/17
Prepared: 06/28/17
Analyzed: 06/28/17

VEW-36**7F28011-05 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
GRO as Hexane	<20	ug/L	20	<5.7	ppmv	5.7
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		96.3 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor as Hexane

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17
Sampled: 06/27/17
Prepared: 06/28/17
Analyzed: 06/28/17

VEW-37

7F28011-06 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
GRO as Hexane	<20	ug/L	20	<5.7	ppmv	5.7
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		92.9 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor as Hexane

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17
Sampled: 06/27/17
Prepared: 06/29/17
Analyzed: 06/29/17

VEW-38

7F28011-07 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
GRO as Hexane	150	ug/L	20	43	ppmv	5.7
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		95.5 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor as Hexane

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17
Sampled: 06/27/17
Prepared: 06/29/17
Analyzed: 06/29/17

VEW-39**7F28011-08 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
GRO as Hexane	150	ug/L	20	43	ppmv	5.7
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		93.7 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 25
Method: Gasoline Range Organics in Vapor as Hexane

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17
Sampled: 06/27/17
Prepared: 06/29/17
Analyzed: 06/29/17

VEW-40**7F28011-09 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
GRO as Hexane	11000	ug/L	20	3100	ppmv	5.7
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		100 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor as Hexane

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17
Sampled: 06/27/17
Prepared: 06/29/17
Analyzed: 06/29/17

East Trunk Line**7F28011-10 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
GRO as Hexane	43	ug/L	20	12	ppmv	5.7
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		93.1 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor as Hexane

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17
Sampled: 06/27/17
Prepared: 06/28/17
Analyzed: 06/28/17

SouthTrunk Line**7F28011-11 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
GRO as Hexane	1700	ug/L	20	480	ppmv	5.7
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		94.2 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor as Hexane

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17
Sampled: 06/27/17
Prepared: 06/29/17
Analyzed: 06/29/17

System Influent**7F28011-12 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
GRO as Hexane	560	ug/L	20	160	ppmv	5.7
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		94.4 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control									
<i>Batch B7F2919 - *** DEFAULT PREP ***</i>									
Blank (B7F2919-BLK1)					Prepared & Analyzed: 06/28/17				
Benzene	<0.50	0.50	ug/L						
Ethylbenzene	<0.50	0.50	ug/L						
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L						
Toluene	<0.50	0.50	ug/L						
o-Xylene	<0.50	0.50	ug/L						
m,p-Xylenes	<1.0	1.0	ug/L						
<i>Surrogate: 4-Bromofluorobenzene</i>	44.8		ug/L	50		89.7 70-140			
<i>Surrogate: Dibromofluoromethane</i>	47.5		ug/L	50		95.0 70-140			
<i>Surrogate: Toluene-d8</i>	47.4		ug/L	50		94.8 70-140			
LCS (B7F2919-BS1)					Prepared & Analyzed: 06/28/17				
Benzene	23.8	0.50	ug/L	20		119 75-125			
Ethylbenzene	20.0	0.50	ug/L	20		100 75-125			
Methyl-tert-Butyl Ether (MTBE)	34.1	2.0	ug/L	40		85.3 75-125			
Toluene	23.1	0.50	ug/L	20		115 75-125			
o-Xylene	20.0	0.50	ug/L	20		100 75-125			
m,p-Xylenes	42.1	1.0	ug/L	40		105 75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	47.9		ug/L	50		95.8 70-140			
<i>Surrogate: Dibromofluoromethane</i>	47.0		ug/L	50		94.0 70-140			
<i>Surrogate: Toluene-d8</i>	55.2		ug/L	50		110 70-140			
LCS Dup (B7F2919-BSD1)					Prepared & Analyzed: 06/28/17				
Benzene	23.5	0.50	ug/L	20		118 75-125	1.39	30	
Ethylbenzene	18.5	0.50	ug/L	20		92.4 75-125	8.00	30	
Methyl-tert-Butyl Ether (MTBE)	35.6	2.0	ug/L	40		88.9 75-125	4.19	30	
Toluene	21.8	0.50	ug/L	20		109 75-125	5.43	30	
o-Xylene	19.1	0.50	ug/L	20		95.7 75-125	4.49	30	
m,p-Xylenes	39.8	1.0	ug/L	40		99.4 75-125	5.81	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	46.2		ug/L	50		92.4 70-140			
<i>Surrogate: Dibromofluoromethane</i>	47.7		ug/L	50		95.4 70-140			
<i>Surrogate: Toluene-d8</i>	51.7		ug/L	50		103 70-140			

*Batch B7F2931 - *** DEFAULT PREP ****

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control

Batch B7F2931 - *** DEFAULT PREP ***

Blank (B7F2931-BLK1)

Prepared & Analyzed: 06/29/17

Benzene	<0.50	0.50	ug/L
Ethylbenzene	<0.50	0.50	ug/L
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L
Toluene	<0.50	0.50	ug/L
o-Xylene	<0.50	0.50	ug/L
m,p-Xylenes	<1.0	1.0	ug/L

Surrogate: 4-Bromofluorobenzene	45.0		ug/L	50	90.1	70-140
Surrogate: Dibromofluoromethane	48.2		ug/L	50	96.3	70-140
Surrogate: Toluene-d8	48.5		ug/L	50	96.9	70-140

LCS (B7F2931-BS1)

Prepared: 06/29/17 Analyzed: 06/30/17

Benzene	21.1	0.50	ug/L	20	106	75-125
Ethylbenzene	19.3	0.50	ug/L	20	96.4	75-125
Methyl-tert-Butyl Ether (MTBE)	35.1	2.0	ug/L	40	87.8	75-125
Toluene	22.1	0.50	ug/L	20	110	75-125
o-Xylene	20.2	0.50	ug/L	20	101	75-125
m,p-Xylenes	41.8	1.0	ug/L	40	104	75-125

Surrogate: 4-Bromofluorobenzene	43.5		ug/L	50	86.9	70-140
Surrogate: Dibromofluoromethane	44.6		ug/L	50	89.3	70-140
Surrogate: Toluene-d8	55.5		ug/L	50	111	70-140

Duplicate (B7F2931-DUP1)

Source: 7F28011-02 Prepared & Analyzed: 06/29/17

Benzene	<0.50	0.50	ug/L	<0.50		30
Ethylbenzene	<0.50	0.50	ug/L	<0.50		30
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L	<2.0		30
Toluene	<0.50	0.50	ug/L	<0.50		30
o-Xylene	<0.50	0.50	ug/L	<0.50		30
m,p-Xylenes	<1.0	1.0	ug/L	<1.0		30

Surrogate: 4-Bromofluorobenzene	42.4		ug/L	50	84.7	70-140
Surrogate: Dibromofluoromethane	44.3		ug/L	50	88.6	70-140
Surrogate: Toluene-d8	47.2		ug/L	50	94.4	70-140

Gasoline Range Organics in Vapor by GC/FID - Quality Control

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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Gasoline Range Organics in Vapor by GC/FID - Quality Control

*Batch B7F2834 - *** DEFAULT PREP ****

Blank (B7F2834-BLK1)

Prepared & Analyzed: 06/28/17

Gasoline Range Organics (GRO)	<20	20	ug/L							
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Surrogate: a,a,a-Trifluorotoluene	49.5		ug/L	50		99.0	70-130			
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LCS (B7F2834-BS1)

Prepared & Analyzed: 06/28/17

Gasoline Range Organics (GRO)	471	20	ug/L	500		94.1	75-125			
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Surrogate: a,a,a-Trifluorotoluene	49.4		ug/L	50		98.8	70-130			
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LCS Dup (B7F2834-BSD1)

Prepared & Analyzed: 06/28/17

Gasoline Range Organics (GRO)	486	20	ug/L	500		97.3	75-125	3.24	30	
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Surrogate: a,a,a-Trifluorotoluene	53.7		ug/L	50		107	70-130			
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Duplicate (B7F2834-DUP1)

Source: 7F28011-03

Prepared & Analyzed: 06/28/17

Gasoline Range Organics (GRO)	<20	20	ug/L		<20				30	
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Surrogate: a,a,a-Trifluorotoluene	46.6		ug/L	50		93.2	70-130			
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*Batch B7F2921 - *** DEFAULT PREP ****

Blank (B7F2921-BLK1)

Prepared & Analyzed: 06/29/17

Gasoline Range Organics (GRO)	<20	20	ug/L							
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Surrogate: a,a,a-Trifluorotoluene	48.0		ug/L	50		96.0	70-130			
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LCS (B7F2921-BS1)

Prepared & Analyzed: 06/29/17

Gasoline Range Organics (GRO)	457	20	ug/L	500		91.4	75-125			
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Surrogate: a,a,a-Trifluorotoluene	48.3		ug/L	50		96.5	70-130			
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LCS Dup (B7F2921-BSD1)

Prepared & Analyzed: 06/29/17

Gasoline Range Organics (GRO)	483	20	ug/L	500		96.5	75-125	5.43	30	
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Surrogate: a,a,a-Trifluorotoluene	45.9		ug/L	50		91.7	70-130			
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Duplicate (B7F2921-DUP1)

Source: 7F28011-07

Prepared & Analyzed: 06/29/17

Gasoline Range Organics (GRO)	142	20	ug/L		147			3.18	30	
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Surrogate: a,a,a-Trifluorotoluene	50.0		ug/L	50		100	70-130			
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Gasoline Range Organics in Vapor as Hexane - Quality Control

*Batch B7F2834 - *** DEFAULT PREP ****

Blank (B7F2834-BLK1)

Prepared & Analyzed: 06/28/17

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD RPD	RPD Limit	Notes
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Gasoline Range Organics in Vapor as Hexane - Quality Control

*Batch B7F2834 - *** DEFAULT PREP ****

Blank (B7F2834-BLK1) Continued

Prepared & Analyzed: 06/28/17

GRO as Hexane	<20	20	ug/L						
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Surrogate: a,a,a-Trifluorotoluene	49.5		ug/L	50		99.0 70-130			
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LCS (B7F2834-BS1)

Prepared & Analyzed: 06/28/17

GRO as Hexane	471	20	ug/L	500		94.1 75-125			
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Surrogate: a,a,a-Trifluorotoluene	49.4		ug/L	50		98.8 70-130			
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LCS Dup (B7F2834-BSD1)

Prepared & Analyzed: 06/28/17

GRO as Hexane	486	20	ug/L	500		97.3 75-125	3.24	30	
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Surrogate: a,a,a-Trifluorotoluene	53.7		ug/L	50		107 70-130			
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Duplicate (B7F2834-DUP1)

Source: 7F28011-03 Prepared & Analyzed: 06/28/17

GRO as Hexane	<20	20	ug/L		<20			30	
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Surrogate: a,a,a-Trifluorotoluene	46.6		ug/L	50		93.2 70-130			
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*Batch B7F2921 - *** DEFAULT PREP ****

Blank (B7F2921-BLK1)

Prepared & Analyzed: 06/29/17

GRO as Hexane	<20	20	ug/L						
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Surrogate: a,a,a-Trifluorotoluene	48.0		ug/L	50		96.0 70-130			
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LCS (B7F2921-BS1)

Prepared & Analyzed: 06/29/17

GRO as Hexane	457	20	ug/L	500		91.4 75-125			
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Surrogate: a,a,a-Trifluorotoluene	48.3		ug/L	50		96.5 70-130			
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LCS Dup (B7F2921-BSD1)

Prepared & Analyzed: 06/29/17

GRO as Hexane	483	20	ug/L	500		96.5 75-125	5.43	30	
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Surrogate: a,a,a-Trifluorotoluene	45.9		ug/L	50		91.7 70-130			
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Duplicate (B7F2921-DUP1)

Source: 7F28011-07 Prepared & Analyzed: 06/29/17

GRO as Hexane	142	20	ug/L		147		3.18	30	
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Surrogate: a,a,a-Trifluorotoluene	50.0		ug/L	50		100 70-130			
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5332226
Date Received: 06/28/17
Date Reported: 07/06/17

Special Notes

Viorel Vasile
Operations Manager

APPENDIX B
WASTE MANIFEST

408057

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number CA 8971524360	2. Page 1 of 1	3. Emergency Response Phone (310) 241-2833	4. Manifest Tracking Number 009712252 FLE	
5. Generator's Name and Mailing Address Defense Logistics Agency Installation Support for Energy 3171 North Gaffey St. Attn: Todd Williams San Pedro, CA 90731 (310) 241-2834			Generator's Site Address (if different than mailing address) DFSP Norwalk 15306 Norwalk Blvd. Norwalk, CA 90650			
6. Transporter 1 Company Name Nieto and Sons Trucking, Inc.			U.S. EPA ID Number CAT080016116			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address DeMenno Kerdoon (Attn: Hannah) 2000 N. Alameda Street Compton, CA 90222 (310) 537-7100			U.S. EPA ID Number CAT080013352			
Facility's Phone:						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.
	1. UN1993, Flammable Liquid, n.o.s., 3, PGII (contains jet fuel)		001 TT		550	G
	2.					
	3.					
	4.					
13. Waste Codes 134						
14. Special Handling Instructions and Additional Information ERG# 128 / Jet Fuels & Groundwater SGI/APEX Contact: Glenn Androska (714) 608-1089						
WEAR ALL APPROPRIATE PROTECTIVE CLOTHING						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offorer's Printed/Typed Name Todd E. H. Williams			Signature <i>[Signature]</i>		Month 05	Day 01
					Year 17	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name SALVADOR AREOLA			Signature <i>[Signature]</i>		Month 05	Day 01
Transporter 2 Printed/Typed Name			Signature		Year 17	
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
Manifest Reference Number: _____ U.S. EPA ID Number _____						
18b. Alternate Facility (or Generator)						
Facility's Phone: _____						
18c. Signature of Alternate Facility (or Generator)						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H039		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name Marceus Worwiley			Signature <i>[Signature]</i>		Month 05	Day 01
					Year 17	

15306NOR/1594240