

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A GEO_REPORT FILE

SUCCESS

Your GEO_REPORT file has been successfully submitted!

<u>Submittal Type:</u>	GEO_REPORT
<u>Report Title:</u>	REMEDIATION STATUS REPORT THIRD QUARTER 2018
<u>Report Type:</u>	Remedial Progress Report
<u>Report Date:</u>	11/15/2018
<u>Facility Global ID:</u>	SLT43185183
<u>Facility Name:</u>	Norwalk, Fuel Terminal DFSP - DOD - NORWALK DFSP
<u>File Name:</u>	DFSP Norwalk Remediation Status Report_Q3-18_Final_r2.pdf
<u>Organization Name:</u>	The Source Group, Inc.
<u>Username:</u>	SIGNAL HILL
<u>IP Address:</u>	66.214.148.134
<u>Submittal Date/Time:</u>	11/21/2018 12:38:51 PM
<u>Confirmation Number:</u>	3556524455

Copyright © 2018 State of California



DEFENSE LOGISTICS AGENCY
INSTALLATION MANAGEMENT - OPERATIONS FOR ENERGY
8725 JOHN J. KINGMAN ROAD
FORT BELVOIR VIRGINIA 22060-6221

November 21, 2018

Mr. Paul Cho, P.G.
Engineering Geologist, Site Cleanup V
California Environmental Protection Agency
Los Angeles Regional Water Quality Control Board
320 West 4th Street, Suite 200
Los Angeles, California, 90013

Dear Mr. Cho:

Enclosed is one electronic copy of the *Remediation Status Report – Third Quarter 2018, for the 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 third quarter, between July 1 and September 30, 2018.

If you have any questions or need additional information concerning this document, please contact Ms. Carol Devier-Heeney at (571) 767-8312 or carol.devier-heeney@dla.mil.

Sincerely,


Digitally signed by
POTTER.WILLIAM.Y.1394566272
Date: 2018.11.21 07:09:08
-05'00'

William Potter
Chief, Restoration Branch

Enclosures
As stated

cc:
Neil Irish, P.G, Principal Geologist, Apex Companies, LLC

REMEDIATION STATUS REPORT - THIRD QUARTER 2018
DEFENSE FUEL SUPPORT POINT NORWALK
15306 Norwalk Boulevard
Norwalk, California

SGI Project No. 091-NDLA-018
DLA Energy Contract No. SPO600-14-D-5410, Task Order 0018

Prepared For:



Defense Logistics Agency Installation Operations Energy (DF-FEE) Restoration Branch
8725 John J. Kingman Drive
Fort Belvoir, VA 22060-6222

For Submittal To:

Mr. Paul Cho, P.G.
Engineering Geologist, Site Cleanup V
California Environmental Protection Agency
Los Angeles Region Quality Control Board
320 West Fourth Street, Suite 200
Los Angeles, California 90013

Prepared By:



1962 Freeman Avenue
Signal Hill, California 90755

November 15, 2018

Prepared By:

A handwritten signature in cursive script that reads "Michael Wood".

Michael Wood, P.E.
Senior Engineer

Reviewed By:

A handwritten signature in cursive script that reads "Neil F. Irish".

Neil F. Irish, P.G. 5484
Principal Geologist

	PAGE
LIST OF FIGURES	ii
LIST OF TABLES	ii
LIST OF APPENDICES	iii
LIST OF ACRONYMS	iii
1.0 INTRODUCTION	1-1
1.1 Contaminants of Concern	1-1
1.2 Remediation Technologies	1-1
1.2.1 Groundwater Extraction and Treatment System	1-2
1.2.2 Soil Vapor Extraction Systems.....	1-2
1.2.3 Biosparge System.....	1-3
1.2.4 LNAPL Removal	1-4
1.2.5 Aboveground Soil Treatment	1-4
1.2.6 Soil Management.....	1-4
2.0 OPERATIONS, MAINTENANCE AND MONITORING	2-1
2.1 Groundwater Extraction and Treatment System	2-1
2.2 Soil Vapor Extraction Systems.....	2-2
2.3 LNAPL Removal Via Bailing, Skimming and Absorbent Socks.....	2-3
2.4 Product Recovery System	2-4
2.5 Biosparge System.....	2-4
3.0 SUMMARY OF REMEDIATION PROGRESS	3-1
3.1 Groundwater Extraction and Treatment System	3-1
3.2 Soil Vapor Extraction Systems.....	3-1
3.3 LNAPL Removal Via Bailing, Skimming and Absorbent Socks.....	3-2
3.4 Product Recovery System	3-2
3.5 Biosparge System.....	3-3
4.0 REMEDIATION SYSTEMS EVALUATION AND OPTIMIZATION	4-1
5.0 PLANNED THIRD QUARTER 2018 ACTIVITIES	5-1
6.0 LIMITATIONS	6-1

LIST OF FIGURES

Figure 1	Site Location Map
Figure 2	Site Map Showing Remediation Well and Piping Locations
Figure 3	Groundwater Elevations and Measurable Liquid-Phase Hydrocarbons In Uppermost Groundwater Zone – April 2018 (Jacobs Figure 2)

LIST OF TABLES

Table 1	Remediation Well Construction Details
Table 2A	Groundwater Extraction and Treatment System Operations Summary - July
Table 2B	Groundwater Extraction and Treatment System Operations Summary - August
Table 2C	Groundwater Extraction and Treatment System Operations Summary - September
Table 3A	Carbon Vapor Extraction System Operations Summary – July
Table 3B	Carbon Vapor Extraction System Operations Summary – August
Table 3C	Carbon Vapor Extraction System Operations Summary - September
Table 4A	Thermal Oxidizer Vapor Extraction System Operations Summary – July
Table 4B	Thermal Oxidizer Vapor Extraction System Operations Summary – August
Table 4C	Thermal Oxidizer Vapor Extraction System Operations Summary - September
Table 5A	Summary of LNAPL Removal in Well GMW-7 – 3 rd Quarter 2018
Table 5B	Summary of LNAPL Removal in Well GMW-18 - 3 rd Quarter 2018
Table 5C	Summary of LNAPL Removal in Well GMW-62 - 3 rd Quarter 2018
Table 5D	Summary of LNAPL Removal in Well GMW-68 - 3 rd Quarter 2018
Table 5E	Summary of LNAPL Removal in Well TF-15 - 3 rd Quarter 2018
Table 5F	Summary of LNAPL Removal in Well TF-19 - 3 rd Quarter 2018
Table 5G	Summary of LNAPL Removal in Well TFR-16 - 3 rd Quarter 2018
Table 5H	Summary of LNAPL Removal in Well TF-18 - 3 rd Quarter 2018
Table 5I	Summary of LNAPL Removal in Well TFR-12 - 3 rd Quarter 2018
Table 5J	Summary of LNAPL Removal in Well TFR-29 - 3 rd Quarter 2018
Table 5K	Summary of LNAPL Removal in Well RTF-18-N - 3 rd Quarter 2018
Table 5L	Summary of LNAPL Removal in Well RTF-18-E - 3 rd Quarter 2018
Table 5M	Summary of LNAPL Removal in Well RTF-18-W - 3 rd Quarter 2018
Table 5N	Summary of LNAPL Removal in Well RTF-18-NW - 3 rd Quarter 2018
Table 5O	Summary of LNAPL Removal in Well RTF-18-NNW - 3 rd Quarter 2018
Table 6	Historical Summary of Analytical Groundwater Sampling Results - Influent GWETS
Table 7	Historical Summary of Analytical Vapor Sampling Results - Influent Carbon VES
Table 8	Historical Summary of Analytical Vapor Sampling Results - Influent Thermal Oxidizer VES

Table 9A	Historical Summary of Field Vapor Readings - Former AST Area Horizontal Wells and Select Vertical Wells
Table 9B	Historical Summary of Field Vapor Readings - Northeastern Area Vertical Wells
Table 9C	Historical Summary of Field Vapor Readings - Southern Area Vertical Wells
Table 9D	Historical Summary of Field Vapor Readings - North-Central Area Vertical Wells
Table 10	Historical Summary of Analytical Vapor Sampling Results - Individual Wells

LIST OF APPENDICES

Appendix A	Laboratory Analytical Reports and Chain-of-Custody Documents
Appendix B	LNAPL Hazardous Waste Manifest

LIST OF ACRONYMS

BOD	Biological Oxygen Demand
BTEX	Benzene, Toluene, Ethylbenzene, and Total Xylenes
DFSP	Defense Fuel Support Point
DLA Energy	Defense Logistics Agency Installation Operations Energy (DF-FEE) Restoration Branch
DTP	Depth to Product
DTW	Depth to Groundwater
ELAP	Environmental Laboratory Accreditation Program
EPA	United States Environmental Protection Agency
GAC	Granular Activated Carbon
GWE	Groundwater Extraction
GWETS	Groundwater Extraction and Treatment System
JP-5	Jet Propellant Number 5
LARWQCB	California Regional Water Quality Control Board, Los Angeles Region
LNAPL	Light Non-Aqueous Phase Liquid
MBAS	Methylene Blue Active Substances
MTBE	Methyl tertiary-Butyl Ether
NPDES	National Pollutant Discharge Elimination System
OM&M	Operations, Maintenance, and Monitoring
OVA	Organic Vapor Analyzer
ppm	Parts per million
SCAQMD	South Coast Air Quality Management District
scfm	Standard cubic feet per minute
SFPP	Santa Fe Pacific Pipelines Partners, L.P.
SGI	The Source Group, Inc.
SM	Standard Method
SVE	Soil Vapor Extraction

TBA	Tertiary-Butyl alcohol
TOC	Top of Casing
TPH	Total Petroleum Hydrocarbons
TPHd	Total Petroleum Hydrocarbons Quantified as Diesel
TPHg	Total Petroleum Hydrocarbons Quantified as Gasoline
VES	Vapor Extraction System
VOCs	Volatile Organic Compounds

1.0 INTRODUCTION

On behalf of our client, Defense Logistics Agency Installation Operations Energy (DF-FEE) Restoration Branch (DLA Energy), The Source Group, Inc. (SGI) presents this report to summarize remediation system operations during this reporting period (Third Quarter 2018 - July 1, 2018 through September 30, 2018) 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 southerly 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 (see SGI's January 2018 *Shallow Soil Closure Report*). An automated product recovery system was additionally brought online during August 2016 following the completion of installation and permitting work during July 2016, and soil vapor extraction and/or biosparge wells were recently installed during November 2016, June/July 2017 and November/December 2017 as part of ongoing remedial expansion activities.

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 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 system 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 granular activated carbon (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 groundwater extraction and treatment system (GWETS) is conducted in accordance with National Pollutant Discharge Elimination System (NPDES) permit CAG994004, CI No. 7585 and South Coast Air Quality Management District (SCAQMD) Permit to Operate G6962, A/N 501180. Active GWE wells are identified in Section 3.1 and Tables 2A through 2C.

1.2.2 Soil Vapor Extraction Systems

As illustrated on Figure 2, the SVE well network for hydrocarbon extraction from vadose zone subsurface impacts historically includes wells installed in the following areas: 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), northeastern boundary area (VEW-32, VEW-33, VEW-34, VEW-35, VEW-36, and VEW-37), and southern former truck fueling and water tank area (VEW-31, VEW-38, VEW-39, VEW-40, VW-07, VW-09, VW-10, VW-11, VW-12, VW-13, VW-14, VW-15, and VW-16).

Several new SVE wells located within the former truck fueling area, and northeastern and southern areas of the Site were installed during November 2016 and June/July 2017 (SGL's June 30, 2017 *Remediation Well Installation Update Report*) were brought online during June 2017 (VEW-38, VEW-39 and VEW-40) and August 2017 (i.e., RW-1, RW-2, RW-7, RW-9, RW-12, RW-13, RW-18, RW-20 through RW-24, RW-26, and RW-28 through RW-33) following the completion of tie-in work to the carbon vapor extraction system (VES). Most of these wells were subsequently tied into the thermal oxidizer VES during late December 2017/early January 2018 prior to the January 8, 2018 startup of this system with the carbon VES being utilized to exclusively extract from three of the four horizontal wells (HW-1, HW-5 and HW-7) that span through the entire former tank farm area since 2018. Additionally, tie-in of wells RW-2 through RW-8, RW-10 through RW-12, and RW-14 through RW-17 to the thermal oxidizer VES was completed on February 14, 2018.

Each 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. For both systems, accumulated moisture within the knockout tank is treated by the GWETS, as described in the preceding section. Following is a brief summary of each VES.

1.2.2.1 Carbon Vapor Extraction System

Soil vapors from the carbon VES knockout tank are treated via four 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 carbon VES is conducted in accordance with 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 in March 2017 (see Section 1.2.5 for further details). Active SVE wells associated with the system are identified in Section 3.2 and Tables 3A through 3C.

1.2.2.2 Thermal Oxidizer Vapor Extraction System

Startup of the recently installed thermal oxidizer VES began on January 8, 2018 following the completion of system shakedown/testing activities during early January 2018. As detailed previously (SGI's May 15, 2018 *Remediation Status Report - First Quarter 2018*) and herein, this system is a temporary unit that was able to be deployed and brought online in a relatively short period of time for the purpose of feasibly treating vapors associated with high concentration extraction wells (i.e., VEW and RW wells listed above with concentrations greater than approximately 500 parts per million [ppm] that were originally tied into the carbon VES during late June and late August 2017 as part of ongoing remediation expansion activities at the Site). The existing thermal oxidizer VES can continue to be operated for up to a year under SCAQMD Various Locations Permit F97121 pending the completion of permitting and installation work associated with the future permanent full-scale system.

Thus, the temporary thermal oxidizer VES is helping to cost-effectively accelerate the overall remediation project until the permanent unit can be brought online while also allowing the carbon VES to reduce carbon usage by being able to focus on relatively low concentration horizontal wells which span through the entire former UST area/provide for comprehensive vadose zone cleanup. Soil vapors extracted via the existing thermal oxidizer VES are heated to a minimum temperature of 1,400 °F prior to atmospheric discharge from a 13-foot tall stack. Active SVE wells associated with the system are identified in Section 3.2 and Tables 4A through 4C.

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 has been off-line since the advent of recently completed soil cleanup activities per SGI's January 2018 *Shallow Soil Closure Report*. The system remains off-line while recommissioning work continues in accordance with SGI's June 30, 2017 *Remediation Well Installation Update Report*. Biosparge system operations are anticipated to resume on an expanded basis later this year.

1.2.4 LNAPL Removal

LNAPL removal at the site is accomplished via both physical and automated processes. Select wells are gauged approximately once every two weeks, and product removal is conducted via manually bailing, active pumping using a portable product skimmer and/or by utilizing absorbent socks installed based on the measured LNAPL thickness in each target well.

An automated product recovery system connected to wells located in the north-central portion of the site has also operated since August 2016. LNAPL removal wells are identified in Sections 3.3 and 3.4, and Tables 5A through 5M. A map showing historical and current LNAPL extents is presented in Figure 3. As Figure 3 indicates, LNAPL removal activities to date have significantly reduced the product plume footprint.

1.2.5 Aboveground Soil Treatment

Per SGI's May 1, 2015 *Remediation Status Report - First Quarter 2015*, the excavation of impacted vadose zone soils at the Site began during January 2015 with soil biopiles initially connected to the carbon 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 carbon VES for SCAQMD permit compliance purposes. Biopile operations, maintenance and monitoring (OM&M) continued until March 20, 2017 after a final phase of limited additional cross-trenching and excavation work with 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 are provided in SGI's January 2018 *Shallow Soil Closure Report*.

1.2.6 Soil Management

Following the completion of the aboveground soil treatment project in March 2017, soil was generated during remedial expansion activities, including conveyance line trenching and the associated drilling of wells, where the upper sections of each boring were segregated by PID measurements and confirmation laboratory sampling results. Approximately 135 tons of soil from deeper sections of the boreholes was placed in bins and hauled off-site for disposal to Chiquita Canyon Landfill (SGI's July 13, 2018 *Well Installation Report*). The segregated clean soil (approximately 70 cubic yards) was tested via the collection of eight samples with all of the analytical results yielding non-detectable concentrations with the exception of toluene which was measured in one sample at 0.0023 mg/kg (significantly below the soil cleanup goal of 0.355 mg/kg). These results/findings indicated the soil was appropriate for reuse (SGI's May 18, 2018 *Request for Soil Reuse, Soil from Drilling and Conveyance Piping Excavation*).

The RWQCB previously approved the March 8, 2012 *Onsite Soil Management Plan* prepared and amended by Parsons Corporation (Parsons May 2012 *Response to April 10, 2012 RWQCB Comments on Onsite Soil Management Plan*). Both documents and the RWQCB approval (February 26, 2014) specified the number of samples and analytical requirements. Soil generated from recent trenching and drilling operations at the Site was tested according to that approved soil management plan protocol. As documented in SGI's May 18, 2018 report, the results indicated by comparison to the soil cleanup goals (SGI's July 9, 2015 *Proposed Addendum to the Soil Cleanup Goals* approved by the RWQCB on July 16, 2015), that the soil is suitable for reuse as shallow soil. Consequently, the segregated clean soil generated as part of recent remedial expansion activities was re-used on site earlier this year.

2.0 OPERATIONS, MAINTENANCE AND MONITORING

OM&M of the remediation systems included the following tasks:

- Performed minimum weekly maintenance and monitoring of the carbon VES, thermal oxidizer VES and GWETS during operation;
- Collected and analyzed influent and effluent vapor samples from the carbon VES and thermal oxidizer VES;
- Collected and analyzed influent and effluent groundwater samples from the GWETS;
- 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 along with adjusting associated pump cycle durations and frequencies to optimize LNAPL removal, and additionally monitored for thicknesses sufficient to resume pumping in off-line wells while continuing extraction efforts from wells TFR-9, GMW-18, TFR-12, Tf-15, TFR-15, TF-16, TFR-14, GW-14R, TFR-22, TFR-24, TFR-29, TFR-33, TFR-18, RTF-18-NW, RTF-18-N, RTF-18-W, TF-18, RTF-18-E, RTF-18-NNW, TFR-27 (wells RTF-18-NNW and RTF-18-E off-line since late January 2017 thru September 2018, respectively, due to insufficient yield with pumping anticipated to resume from these wells during the next reporting period), and GMW-45.

Remediation system inspections were performed on a regular 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 Groundwater Extraction and Treatment System

System OM&M details and monthly performance results for July, August and September 2018 are summarized in Tables 2A, 2B and 2C, respectively.

Performance and compliance water samples from the GWETS were collected during the reporting period on July 2, July 30, August 6, August 13 and September 13, 2018. The water 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 water samples were analyzed for the following:

- TPHg (total petroleum hydrocarbons quantified as gasoline) and TPH quantified as diesel (TPHd) using United States Environmental Protection Agency (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;
- Biological oxygen demand (BOD) using SM 5210 B; and
- Acute toxicity using EPA Method 2000.0.

The GWETS effluent groundwater sampling results were provided under separate cover in SGI's July 13, 2018 *Groundwater Discharge Monitoring Report*. A historical summary of influent water analytical sample results is provided in Table 6. The laboratory analytical reports and chain-of-custody documents for these samples are included in Appendix A. As the results indicate, GWETS concentrations continue to be at or near historically low/asymptotic levels with maximum TPHd, benzene and MTBE concentrations this period of ND <60 micrograms per liter ($\mu\text{g/L}$), 3.1 $\mu\text{g/L}$ and 0.41J $\mu\text{g/L}$, respectively. Maximum historic levels for these constituents are 6,300 $\mu\text{g/L}$ (May 2013), 230 $\mu\text{g/L}$ (February 2015) and 7.7 $\mu\text{g/L}$ (June 2008), respectively.

2.2 Soil Vapor Extraction Systems

The carbon VES operated for the entire reporting except for some temporary off-line periods on 7/9/18 for blower oil change; on 7/23/18 and 8/6/18 due to high inlet temperatures affected by the hot weather; on 8/15/18 due to leaking repair work on the 8-inch flange between the GAC vessels; on 9/26/18 to conduct carbon change out work. Due to the increase in system operating temperature, the system was operational from 8pm to 9am. System operations otherwise occurred throughout the remainder of the reporting period. System OM&M details and performance results for July, August and September 2018 are summarized in Tables 3A, 3B and 3C, respectively.

Startup of the thermal oxidizer VES occurred during the first quarter on January 8, 2018 following procurement of the unit during November 2017 (including the permitting/installation of a propane tank), completion of all necessary electrical upgrade work during December 2017, and system shakedown/testing activities during early January 2018. System operational hours increased relative to the prior reporting period but were again limited to daytime hours this period due to ongoing noise concerns from nearby residents (despite the implementation of noise abatement measures which began during January/February 2018 and included both sound blankets and a blower/motor enclosure). Since installation of the future full-scale thermal oxidizer VES (3,000 scfm) to replace the existing temporary unit (500 scfm) is anticipated to be completed before the end of the next

reporting period, SGI plans to continue operating this smaller system during daytime hours only until the permanent system (designed to more comprehensively address residential concerns and allow full-time operations to commence) is brought online. System OM&M details and performance results for July, August and September 2018 are summarized in Tables 4A, 4B and 4C, respectively.

As discussed in SGI's May 15, 2018 *Remediation Status Report - First Quarter 2018*, the temporary thermal oxidizer VES is intended to treat vapors associated with the relatively high concentration extraction wells that were originally tied into the carbon VES during late June and early August 2017 as part of ongoing remediation expansion activities at the Site. All such wells that have since been installed and connected for cleanup cannot be feasibly treated via the carbon VES. Thus, the temporary thermal oxidizer VES is helping to cost-effectively accelerate the overall remediation project until the permanent unit can be installed and permitted while also allowing the carbon VES to reduce carbon usage by being able to focus on relatively low concentration horizontal wells which span through the entire former UST area/provide for comprehensive vadose zone cleanup.

Compliance and/or performance soil vapor samples from both the carbon and thermal oxidizer vapor extraction systems were collected in Tedlar bags during the reporting period on July 2, August 6, and September 13, 2018. All vapor samples were delivered to ELAP-certified American Analytics for analysis.

The vapor samples were analyzed for the following:

- TPHg using EPA Method 8015 Modified; and
- BTEX and MTBE using EPA Method 8260B.

Historical summaries of influent vapor analytical sampling results for the carbon VES and thermal oxidizer VES are provided in Tables 7 and 8, respectively. The laboratory analytical reports and chain-of-custody documents for these samples are included in Appendix A. As the Table 7 results indicate, carbon VES concentrations have declined since the additional, relatively high concentration extraction wells, are now tied into the thermal oxidizer VES. Maximum gasoline range organic (GRO), benzene and MTBE concentrations this period are 3,800 µg/L (thermal oxidizer VES), 6 µg/L (thermal oxidizer VES) and ND <2.0 µg/L, respectively. Maximum historic levels for these constituents were previously 2,500 µg/L for GRO (September 2017) and 3.9 µg/L for benzene (September 2017). MTBE has never been detected.

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 approximately every two weeks during the quarter. 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 5A through 5E 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. The system consists of six pneumatically activated product removal pumps (two additional pumps were procured during October 2017 in response to increasing LNAPL thickness trends from the prior reporting period) deployed in key wells located in the north-central portion of the Site.

All 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. LNAPL removal is determined individually for wells with product removal pumps based on interpolating the total volume of product collected in the AST during a given quarter and periodically measuring the volume of LNAPL recovered per cycle for each pump (i.e., portion of total AST product volume assigned to each pump calculated from well-specific cycle duration and frequency values programmed on the basis of current gauging and yield data).

Product recovery system OM&M continued through the current reporting period. Per SGI's January 18, 2017 *TF-18 Area LNAPL Recovery Report and Interim Work Plan*, enhanced LNAPL recovery testing was also conducted during October and November 2017. Activities included vacuum-enhanced product skimming, bail down and total fluid extraction testing, and a bench-scale surfactant treatability study using soil, groundwater and LNAPL samples collected during June 2017 following the installation of pilot test wells around existing well RTF-18-NW. Details associated with these activities are provided in SGI's July 2018 *LNAPL Recovery Investigation Report*. Product recovery system OM&M details during this quarter are provided in Tables 5F through 5M.

2.5 Biosparge System

The biosparge system began operation in mid-September after LNAPL piping manifold was completed. 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 wells were abandoned to allow for the excavation of impacted soil from the area at or surrounding each respective well (see Sections 1.2.5 and 1.2.6) or were confirmed to be missing/destroyed during September 2016 field reconnaissance work.

Dual-nested soil vapor extraction and biosparge wells RW-1 through RW-34 were recently installed during late June and early July 2017 with additional wells being installed during November and December 2017 (Table 1). All of these wells were installed as part of ongoing remedial expansion activities to target impacts in the northeastern, central and former truck fueling areas of the Site (Figure 2) in accordance with SGI's March 14, 2017 *Well Replacement Report and Work Plan*, and June 30, 2017 *Remediation Well Installation Update Report*.

3.0 SUMMARY OF REMEDIATION PROGRESS

The following sections describe remedial progress at the Site.

3.1 Groundwater Extraction and Treatment System

The GWETS again extracted groundwater from the northwest (GW-2 and GW-13) and northeast (GW-15 and GW-16) areas of the Site during the reporting period. The total volume of groundwater extracted by the GWETS this quarter was approximately 642,663 gallons, and an estimated 79,027,882 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 (Third Quarter 2018) was approximately 0.2 pounds, and an estimated 9,946 pounds have been removed since April 1996 (Table 2C).

3.2 Soil Vapor Extraction Systems

During the reporting period, the carbon VES focused entirely on three of the four horizontal wells that span through the entire former tank farm area (i.e., HW-1, HW-5 and HW-7). Well HW-3 again remained off-line after it was first determined to be yielding minimal flow during July 2017, and subsequently scoped and confirmed to be collapsed in two separate locations during November 2017. Testing from the southern end of the well is planned for next quarter since the area where it has collapsed is over 100 feet from the connection point.

During this quarter, wells RW-1, RW-11, RW-18, RW-13, RW-4, RW-5, RW-9, RW-10, RW-23, RW-30, RW-32, VEW-40, RW-26, RW-28, RW-24, RW-27, RW-33, RW-43, RW-22, RW-29, RW-45, RW-35, RW-40, RW-44, RW-36, RW-37, RW-41, RW-42, RW-47, RW-48, RW-49, and RW-50 were used as the extraction points based on field PID readings (Tables 9A through 9D) and laboratory concentrations (Table 10).

Since the recently installed northeastern and southern area wells generally exhibit concentrations beyond what can feasibly be processed by the carbon VES (without simultaneous extraction from lower concentration wells and/or dilution air), the use of the thermal oxidizer for vapor abatement allows for more cost-effective cleanup. As concentrations begin to decline in these recently installed wells, they can be individually re-connected to the carbon VES to complete the cleanup at each respective location. In the meantime, the recently installed thermal oxidizer VES will continue to be utilized to target the most impacted wells across the site as best as possible until this relatively small (500 scfm) temporary unit can be replaced with an appropriately sized (3,000 scfm) permanent/full-scale thermal/catalytic oxidizer (anticipated to be operational during Third Quarter 2018).

The total mass of VOCs removed via both vapor extraction systems during this period was approximately 4,576 pounds (2,096 pounds via the carbon VES and 2,480 pounds via the thermal oxidizer VES), and an estimated 2,981,350 pounds have been removed since April 1996 (Table 3C)

via the original thermal oxidizer and carbon VES with approximately 5,778 pounds being removed via the existing thermal oxidizer VES since January 2018 (Table 4C).

The relatively low mass of VOCs removed by the thermal oxidizer VES this quarter (i.e., 2,480 pounds or a combined total of 2,976,773 pounds via both systems since April 1996) is due in large part to the reduced overall uptime (Tables 4A, 4B and 4C) associated with only being able to operate the unit during daytime hours, as discussed previously, along with the limited flows associated with this temporary system (i.e., maximum permit limit of 500 scfm). It is anticipated that operation of the permanent full-scale thermal oxidizer (i.e., maximum permit limit of 3,000 scfm) will begin during the next reporting to allow for greatly enhanced mass removal. Note that the total estimated mass of VOCs removed via SVE does not account for any mass removed *in-situ* via biodegradation.

3.3 LNAPL Removal Via Bailing, Skimming and Absorbent Socks

During the reporting period, DTW and DTP was measured in wells GMW-7, GMW-18, GMW-62, GMW-68, TF-15, TF-16, TF-18, TF-19, TF-16, TFR-12, TFR-29, 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) (Tables 5A through 5O).

Wells GMW-18, TF-15, TF-16, TF-18, TFR-12, TFR-29, RTF-18-N, RTF-18-E, RTF-18-W, RTF-18-NW, and RTF-18-NNW were all connected to an automated product recovery system.

For the remaining listed wells (GMW-7, GMW-62, GMW-68, TF-19), LNAPL was removed via manual bailing, active pumping using a portable product skimmer and/or by utilizing absorbent socks installed in select wells. Approximately 4.7 gallons (32.4 pounds) of LNAPL was recovered from the Site this period via these techniques.

3.4 Product Recovery System

A total of approximately 435 gallons (2,855 pounds) of LNAPL was pumped from wells GMW-18, TF-15, TF-16, TF-18, TFR-12, TFR-29, RTF-18-N, RTF-18-E, RTF-18-W, RTF-18-NW, and RTF-18-NNW during the reporting period. The LNAPL thickness in product recovery system well RTF-18-NNW was again insufficient to allow for the resumption of pumping this period and the yield in wells RTF-18-E continues to be insufficient to allow for the resumption of pumping (turned off on March 15, 2018 and March 28, 2018, respectively).

LNAPL gauging results along with cumulative mass and volume removal estimates from all of the wells listed above are summarized in Tables 5A through 5O. As the tables indicate, product thicknesses generally remained somewhat stable during the current reporting period.

When combined with the product recovery estimate from the preceding section, a total of approximately 439.7 gallons (2,887 pounds) of LNAPL was removed from the Site during Third Quarter 2018, and an estimated 7,408 gallons (50,131 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 80% of all the LNAPL recovered from the Site in approximately four and a half years.

3.5 Biosparge System

Recommissioning of the former biosparge system continued during the reporting period. Requested power supply design details were provided to Southern California Edison to allow the upgraded service to be installed accordingly. The design includes figures showing recently installed conveyance piping and control vaults for wells in the southern area (RW-19 through RW-34), and the electrical controls and manifold for the expanded system. SGI's July 2018 *Well Installation Completion Report* was also recently finalized and submitted. The document includes details regarding 38 additional biosparge wells that were installed during November/December 2017 per SGI's October 11, 2017 *Addendum to Revised Remedial Action Plan* and 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.

4.0 REMEDIATION SYSTEMS EVALUATION AND OPTIMIZATION

Remedial system optimization activities are ongoing at the Site to help ensure effective cleanup operations. For the carbon VES, vapor-phase VOC concentrations from the horizontal wells (i.e., HW-1, HW-5 and HW-7) exhibited a declining trend this quarter with samples planned for collection during the next reporting period to analytically confirm this is the case. Extraction from these wells was again optimized by adjusting the HW-5 well valve to partially open positions in accordance with recent field readings (Table 9A) while leaving HW-1 and HW-7 fully open since the latest laboratory data (Table 10) indicates it is the most impacted horizontal well.

Well HW-3 remained off-line during the reporting period after exhibiting only minimal flow following July 2017 rehabilitation work and was determined to be collapsed in two separate locations based on the results of November 2017 scoping work. Testing from the southern end of the well is planned for the next reporting period since the area where it has collapsed on that end is over 100 feet from the connection point.

For the thermal oxidizer VES, the following wells were online during this quarter VEW-32, VEW-33, VEW-34, VEW-35, VEW-36, VEW-37, VEW-39 (Tables 9A through 9D) and laboratory concentrations (Table 10). Recently installed and tied-in wells VEW-38 and VEW-40 continued to be operated during most of the reporting period based on field readings (Table 9A) and laboratory results (Table 10) which show VEW-40 concentrations to still be relatively high to moderate on a site-wide and historical basis.

As additional wells are connected to the trunk lines and brought online, further operational adjustments will be made to prioritize mass extraction from the most impacted wells. Total system runtime during the quarter improved from the prior reporting period up to an average of about 13 hours per day but was again limited due to the previously mentioned noise concerns from nearby residents. The completion of upcoming installation and startup activities associated with the previously mentioned permanent full-scale thermal oxidizer to replace the existing temporary system will allow for enhanced mass removal. In the meantime, the carbon VES will continue to run on a full-time basis with temporary thermal oxidizer VES operations being largely restricted to just daytime hours during the week and off-line each weekend.

Once the permanent full-scale thermal oxidizer VES can be operated on a full-time basis, reconfiguration of the respective vapor extraction systems will be conducted regularly to allow for cost-effective site-wide cleanup. Thus, as levels in one or more currently high concentration wells decline to the point where carbon treatment becomes feasible, the well(s) will be progressively disconnected from the thermal oxidizer VES and tied into the carbon VES. Note that due to the recent completion of electrical upgrade work, simultaneous full-time operation of both vapor extraction systems can be conducted while further upgrade work is performed to allow the future permanent/full-scale thermal/catalytic oxidizer VES to be brought online later this year.

The planned resumption of biosparge system operations on an expanded basis is also anticipated to occur during the latter half of 2018. 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 associated with each existing VES, and modify which extraction wells are online along with adjusting respective 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 northeastern and northwestern areas 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 of the Site. 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. As indicated on Tables 5F through 5M, LNAPL recovery sufficient to allow for pumping continued in wells TF-18, RTF-18-N, RTF-18-W and RTF-18-NW during the reporting period, with wells TFR-12 and TFR-29 also being brought online during late April 2018, and wells RTF-18-E and RTF-18-NNW remaining off-line due to insufficient yield. Pumping from wells RTF-18-E and RTF-18-NNW was last conducted in mid-March 2018 and early January 2017, respectively. It is anticipated that well RTF-18-NNW will be brought back online during the next reporting period since product thicknesses have continued to increase in this well over the last few quarters.

Up-to-date gauging data will continue to be collected during the next reporting period with rotating recovery operations being implemented on the basis of ongoing performance data. If warranted by the data, pumping will also resume in any locations where it was previously conducted such as GMW-68 where automated operations were temporarily conducted during Third Quarter 2017 (via the use of a dedicated pump and truck-mounted pumping power equipment) but have no longer been necessary since September 2017 (Table 5C).

For all active pumping wells, 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 establish current transmissivity values for correlating apparent to actual product thicknesses.

Pilot testing was also conducted during the prior reporting period in accordance with SGI's January 18, 2017 *TF-18 Area LNAPL Recovery Report and Interim Work Plan* to evaluate the feasibility of system expansion and/or enhanced product recovery with the goal of achieving LNAPL removal to the maximum extent practicable. The testing details and results/findings are provided in SGI's July 2018 *LNAPL Recovery Investigation Report*.

5.0 PLANNED FOURTH QUARTER 2018 ACTIVITIES

During the next reporting period, DLA Energy plans to continue to focus in-situ remedial efforts on the northwestern, northeastern, north-central and southerly former truck fueling areas of the Site along with completing the remaining items necessary to resume biosparge system operations on an expanded basis. Following is a summary of planned Fourth Quarter 2018 OM&M activities:

- Continue minimum weekly maintenance and monitoring of the carbon VES, thermal oxidizer VES and GWETS, including measuring individual well vapor concentrations with an organic vapor analyzer (OVA); and collecting/analyzing influent and effluent vapor and groundwater samples;
- Collect individual extraction well vapor samples for laboratory analysis, including former AST area horizontal wells and/or those located along the eastern to northeastern property boundary, and southern former water tank and truck fueling areas;
- Conduct additional testing from the southern end of well HW-3 to determine if extraction from the remaining intact portion of this well is still viable following visual confirmation that the casing collapsed in two separate locations (non-operational since July 2017);
- Continue regular LNAPL gauging and removal activities (as applicable), including wells GMW-7, GWM-18, GWM-62 and GMW-68 (both located off site in Holifield Park), TF-19, and product recovery system wells TF-15, TF-16, TF-18, TFR-12, TFR-29, 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 TFR-9, GMW-18, TFR-12, TF-15, TFR-15TF-16, TFR-14, GW-14R, TFR-22, TFR-24, TFR-29, TFR-33, TFR-18, RTF-18-N, RTF-18-W, TF-18, RTF-18-E, TRF-18-NNW, and/or RTF-18-NW, located in the north-central portion of the Site, with focused efforts in wells where LNAPL yields are the most significant, and likely bring well RTF-18-NNW back online (off-line since January 2017 due to insufficient yield) since product thicknesses have continued to increase at this location over the last few quarters;
- Conduct automated product recovery from applicable wells (e.g., GWM-18, GWM-68 and/or TF-15) using truck-mounted pumping power equipment (if warranted based on current LNAPL gauging data) with extraction frequencies and durations adjusted accordingly to help maximize the yield without isolating the well from the product plume;
- Continue regular GWETS operations along with evaluating GWE flow rates and confirming contaminant containment via routine sampling;
- Obtain upgraded power supply service from Southern California Edison for subsequent electrical control manifold hookup (to accommodate additional trunk line piping) so that biosparge system operations can resume on an expanded basis before the end of the next reporting period;

- Begin Biosparge system startup in late November 2018.
- Continue to utilize the carbon VES for focused extraction from the relatively low concentration horizontal wells that span the entire former tank farm area to allow for reasonable carbon usage rates while achieving comprehensive site-wide vadose zone cleanup in conjunction with the new permanent thermal oxidizer VES (i.e., treatment of both relatively high and low concentration wells via the simultaneous use of both vapor abatement technologies);
- Deploy and begin permanent/full-scale thermal/catalytic oxidizer shakedown and testing operations followed by starting up the system designed to cost-effectively process high vapor concentration (thermal mode above approximately 3,000 parts per million [ppm]) to moderate concentration (catalytic mode from approximately 500 ppm to 3,000 ppm) well flows with any remaining low concentration (less than approximately 500 ppm) well flows being more cost-effectively treated via the existing GAC system; and
- Prepare and submit a final report documenting the activities and results/findings associated with enhanced LNAPL recovery testing recently conducted 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 *Fourth Quarter 2018 Remediation Progress Report* to be submitted by February 15, 2019.

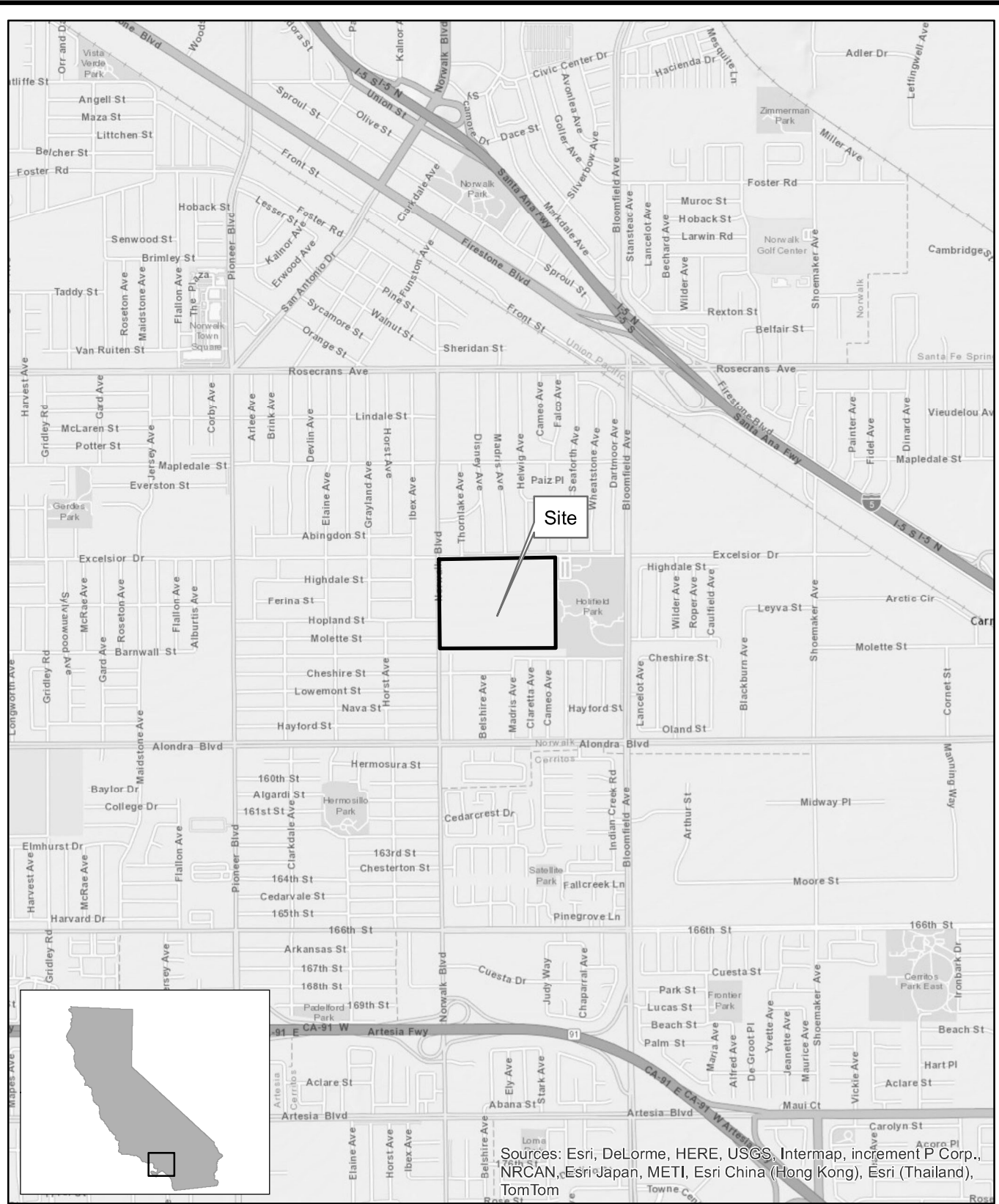
6.0 LIMITATIONS

This document was prepared for the exclusive use of the DLA Energy and the LARWQCB for the express purpose of complying with a client or regulatory directive for environmental investigation or restoration. SGI and DLA Energy 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 Energy.

To the extent that this report is based on information provided to SGI by third parties, including DLA Energy, their direct contractors, previous workers, and other stakeholders, SGI cannot guarantee the completeness or accuracy of this information, even where efforts were made to verify third-party information. SGI has exercised professional judgment to collect and present findings and opinions of a scientific and technical nature. The opinions expressed are based on the conditions of the Site existing at the time of the field investigation, current regulatory requirements, and any specified assumptions.

The presented findings and recommendations in this report are intended to be taken in their entirety to assist DLA Energy 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.:
04-NDLA-003

DATE:
5/28/2014

DR. BY: APP. BY:
JK PP

SCALE= 1:24,000

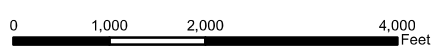


FIGURE
1

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

Legend

- Former Above Ground Storage Tanks
- DFSP Norwalk Border
- ▨ Existing Treatment System
- Below Grade Trenching and Piping
- Existing Horizontal Vapor Extraction Wells
- Below Grade Groundwater Extraction System Piping
- Above Grade Groundwater Extraction System Piping
- Product Recovery System Piping
- Horizontal Vapor Extraction System Piping
- Western Boundary of Eastern 15-Acre Parcel
- ◆ Groundwater Extraction Wells
- ◆ Biosparging Wells (2016-2018)
- ◆ Biosparging Wells (April 2007)
- ◆ Vapor Extraction Wells (November 2016)
- ◆ Biosparging and Vapor Extraction Wells
- ◆ Total Fluid and Groundwater Extraction Wells
- ◆ Co-Located Total Fluid and Biosparge Wells
- Vapor Extraction Wells (2004)
- Sparging Points (August 2004)
- ◆ Access Vaults for Groundwater Extraction Piping
- Condensate Sump for Vapor Extraction Piping
- Vapor Extraction System Control Vaults
- Biosparge System Control Vaults

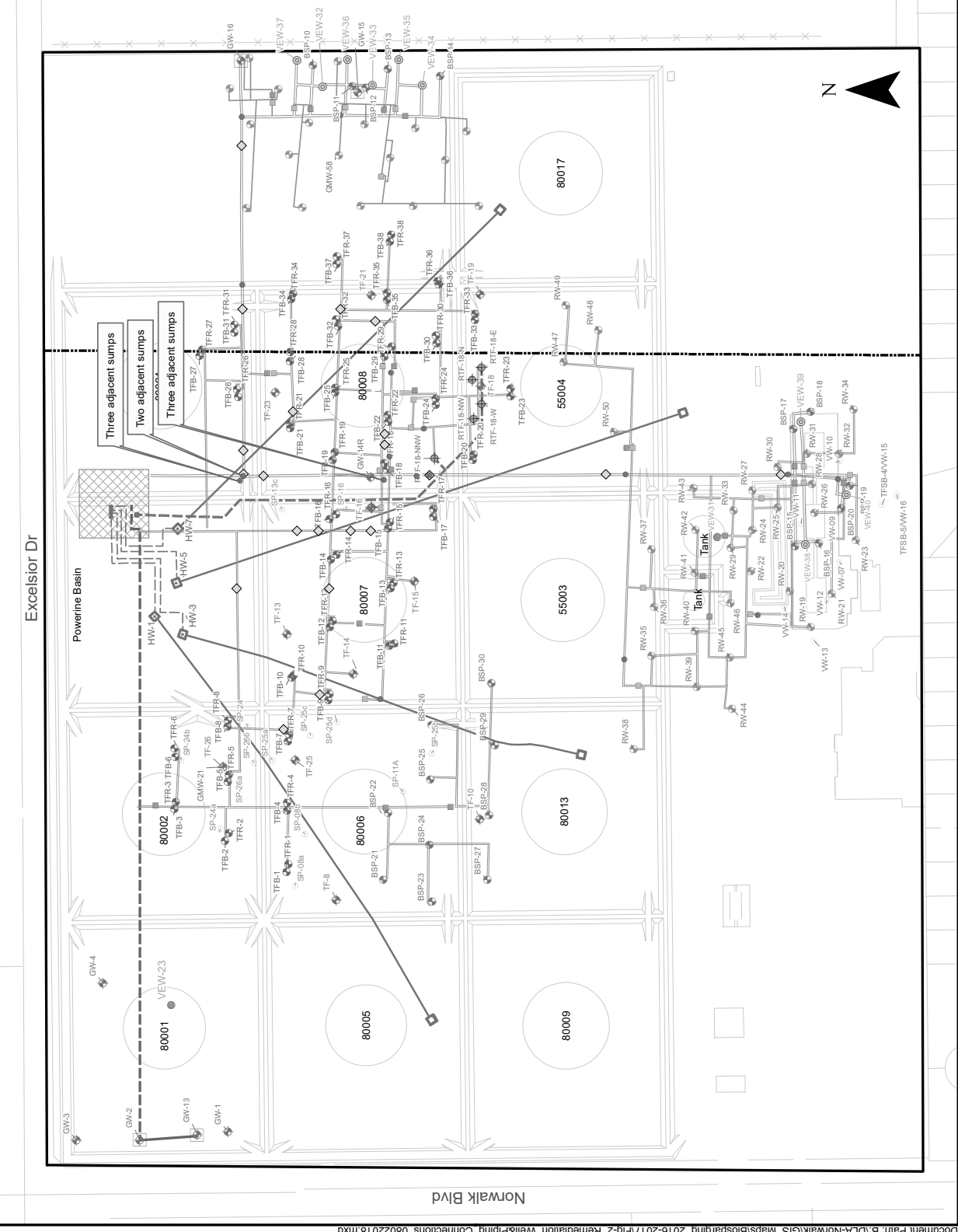
DFSP Norwalk
15306 Norwalk Boulevard
Norwalk, California

Project Number:	Date:	Drawn By:	Approved By:
04-NDLA-007	08/02/2018	PW	MWV

0 70 140 280 Feet

SGI THE SOURCE GROUP, INC.
environmental
1982 Freeman Avenue
Signal Hill, CA 90755
(562) 597-1055

Figure 2



Explanation

- GMW-5 ◆ Groundwater monitoring well
- VIEW-1 † Vapor extraction, groundwater extraction, leach fluids, or free product extraction well used for site remediation
- GMW-47 ◆ Character by elevation in feet above mean sea level (MSL)
- GMW-36 0.27 † Apparent thickness of free product measured in well (feet), groundwater elevations calculated by removing product head effect.
- GMW-47 NC ◆ Groundwater elevation not used in contouring
- TF-17 ○ Decommissioned well

Lines of equal groundwater elevation showing groundwater elevation in feet above MSL (shaded where in situ).

Estimated extent of measurable light nonaqueous phase liquid (LNAPL) in groundwater plume where inferred.

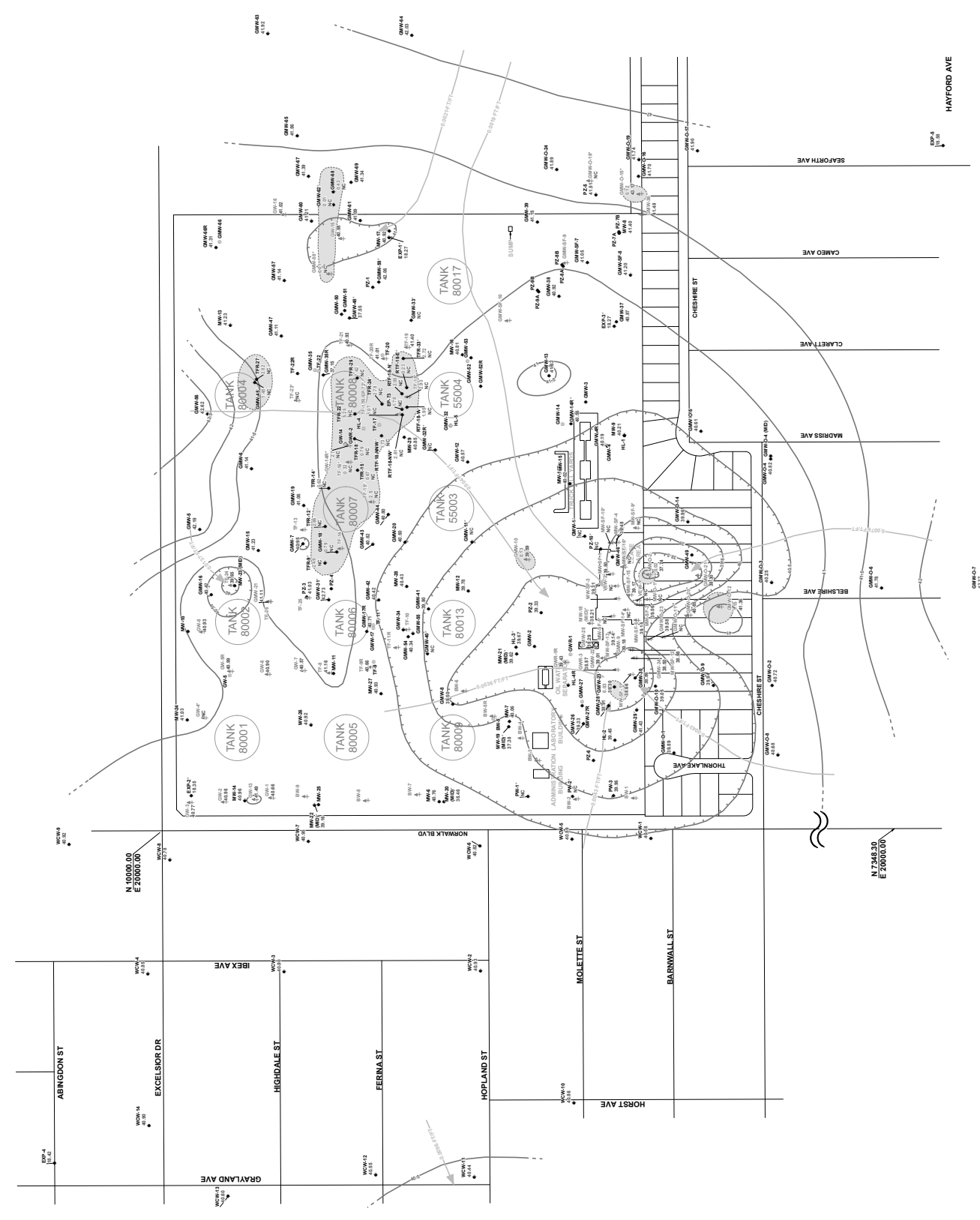
Approximate direction of groundwater flow and estimated horizontal hydraulic gradient in foot/foot (ft/ft).

Notes

1. Contour elevations and product thicknesses shown at wells are based on data collected by SGI, Blaine Tech, and SFPF in April 2018.
2. SFPF and DIA's remediation systems were shut down approximately 1 week prior to collecting fluid level measurements in April 2018.
3. Wells screened in the Exposure aquifer or near the bottom of the uppermost aquifer, or with surrounding groundwater elevations, are not used in contouring. Groundwater elevation contours are based on wells screened in the uppermost aquifer conditions and are triangulated from data collected by Blaine Tech. Wells with groundwater elevations not used in contouring are marked with a red asterisk (*).
4. NC = groundwater elevation could not be determined due to well construction during the monitoring event, not measured due to an obstruction or other access complication, or the casing elevation is not available.
5. Wells at which a groundwater elevation or "NC" qualifier is not supplied are not included in the contouring. These wells were not visited during this monitoring event.
6. Field storage tanks depicted on the figure are historical structures and have been removed from the site.

Survey Notes

1. Base map derived from data provided by Fluor Daniel (DuPont & Boynton, Gorman, and Parsons).
2. Except as noted below, well locations surveyed by Duin & Boynton.
3. Locations of wells 11, 3, and 14, 4, based on field measurements by Fluor Daniel G1 and Woodward-Clyde.
4. Locations of wells RW-1 through RW-9 surveyed by Geomatrix based on reference to other wells surveyed by Duin & Boynton.
5. Locations of wells TFR-9, TFR-12, TFR-14, TFR-15, TFR-18, TFR-22, TFR-24, TFR-27, TFR-29, and TFR-33 based on field measurements by SGI.



TABLES

TABLE 1
Remediation Well Construction Details
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 Details
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
Southern 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 Details
 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	
Southern 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*.

TABLE 2A
Groundwater Extraction and Treatment System Operations Summary - July
 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)	Groundwater Extracted and Treated Per Day (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed (lb)
7/1/18	*		175,925	92,468	317,116	424,142	11,858,221	5,047,430	78,390,142	4,923	--	9,946
7/2/18	Technician	1	176,415	92,733	317,996	425,410	11,860,369	5,048,185	78,391,783	4,923	ND <60	9,946
7/3/18	*		177,887	93,528	320,643	426,827	11,864,433	5,050,441	78,396,706	4,923	--	9,946
7/4/18	*		179,358	94,323	323,290	428,244	11,868,497	5,052,697	78,401,629	4,923	--	9,946
7/5/18	*		180,829	95,118	325,937	429,661	11,872,561	5,054,953	78,406,552	4,923	--	9,946
7/6/18	Technician	2	182,670	96,110	329,250	431,430	11,877,643	5,057,817	78,412,707	2,873	--	9,946
7/7/18	Off line		182,670	96,110	329,250	431,430	11,877,643	5,057,817	78,412,707	0	--	9,946
7/8/18	Off line		182,670	96,110	329,250	431,430	11,877,643	5,057,817	78,412,707	0	--	9,946
7/9/18	Off line		182,670	96,110	329,250	431,430	11,877,643	5,057,817	78,412,707	0	--	9,946
7/10/18	Off line		182,670	96,110	329,250	431,430	11,877,643	5,057,817	78,412,707	0	--	9,946
7/11/18	Off line		182,670	96,110	329,250	431,430	11,877,643	5,057,817	78,412,707	0	--	9,946
7/12/18	Off line		182,670	96,110	329,250	431,430	11,877,643	5,057,817	78,412,707	0	--	9,946
7/13/18	Off line		182,670	96,110	329,250	431,430	11,877,643	5,057,817	78,412,707	0	--	9,946
7/14/18	Off line		182,670	96,110	329,250	431,430	11,877,643	5,057,817	78,412,707	0	--	9,946
7/15/18	Off line		182,670	96,110	329,250	431,430	11,877,643	5,057,817	78,412,707	0	--	9,946
7/16/18	Technician	3	182,670	96,110	329,250	431,430	11,877,643	5,057,817	0	6,883	--	9,946
7/17/18	Technician	4	184,950	97,360	333,080	435,090	11,885,133	5,061,347	11,400	4,517	--	9,946
7/18/18	Off line		184,950	97,360	333,080	435,090	11,885,133	5,061,347	11,400	0	--	9,946
7/19/18	Off line		184,950	97,360	333,080	435,090	11,885,133	5,061,347	11,400	0	--	9,946
7/20/18	Off line		184,950	97,360	333,080	435,090	11,885,133	5,061,347	11,400	0	--	9,946
7/21/18	Off line		184,950	97,360	333,080	435,090	11,885,133	5,061,347	11,400	0	--	9,946
7/22/18	Off line		184,950	97,360	333,080	435,090	11,885,133	5,061,347	11,400	0	--	9,946
7/23/18	Off line		184,950	97,360	333,080	435,090	11,885,133	5,061,347	11,400	0	--	9,946
7/24/18	Off line		184,950	97,360	333,080	435,090	11,885,133	5,061,347	11,400	0	--	9,946
7/25/18	Off line		184,950	97,360	333,080	435,090	11,885,133	5,061,347	11,400	0	--	9,946
7/26/18	Technician	5	184,950	97,360	333,080	435,090	11,885,133	5,061,347	11,400	6,015	--	9,946
7/27/18	*		189,363	99,109	337,897	440,168	11,893,028	5,067,509	27,358	10,310	--	9,946
7/28/18	*		193,775	100,859	342,714	445,246	11,904,923	5,073,671	43,316	15,958	--	9,946
7/29/18	*		198,188	102,608	347,531	450,323	11,914,817	5,079,833	59,275	15,958	--	9,946
7/30/18	Technician		203,060	104,540	352,850	455,930	11,925,743	5,086,637	76,895	17,620	--	9,946
7/31/18	*		208,271	106,112	357,245	459,752	11,933,959	5,093,420	92,303	15,408	--	9,946

Cumulative Groundwater Discharged by the GWETS to Date (gallons)				
Period	July	Quarter 2, 2018	Quarter 3, 2018	Quarter 4, 2018
Volume	119,791	482,184	119,791	791,797
				April 1996 to Date
				78,505,010

Cumulative Mass DRO Removed by the GWETS ^A (lb)		
Period	July	April 1996 to Date
Mass	0.03	9,945.7

Legend / Notes:

- 1 = Collected monthly process and intermediate samples for laboratory analysis.
- 3 = GWETS manually shut down for repair/maintenance work.
- 4 = GWETS restarted following the completion of repair/maintenance work, including replacement of discharge totalizer which was determined to have a housing crack during a routine inspection.
- 5 = GWETS manually shut down in advance of media change out work.
- 6 = GWETS restarted following the completion of media change out work.

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

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

GWETS = Groundwater extraction and treatment system
 ug/L - Micrograms per liter

A = Hydrocarbon removal is calculated using analytical laboratory result for DRO (if not detected, half the detection limit is used) from sample collected on: 7/2/18 (laboratory report attached).

-- = Not applicable

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

lb = Pounds
 DRO = Diesel range organics

TABLE 2B
Groundwater Extraction and Treatment System Operations Summary - August
 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)	Groundwater Extracted and Treated Per Day (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed ^A (lb)
8/1/18	*		213,481	107,684	361,639	463,573	11,942,175	5,100,202	107,712	15,408	--	9,946
8/2/18	*		218,692	109,256	366,034	467,395	11,950,392	5,106,985	123,120	15,408	--	9,946
8/3/18	Technician	1	222,980	110,549	369,650	470,540	11,957,153	5,112,566	135,800	12,680	--	9,946
8/4/18	*		227,786	110,549	374,841	475,269	11,967,073	5,117,372	151,459	15,659	--	9,946
8/5/18	*		232,592	110,549	380,032	479,998	11,976,992	5,122,178	167,118	15,659	--	9,946
8/6/18	Technician	2	237,865	110,549	385,727	485,186	11,987,876	5,127,451	184,300	17,182	ND <60	9,946
8/7/18	*		242,399	110,549	390,805	490,993	11,998,761	5,131,985	200,259	15,959	--	9,946
8/8/18	*		246,933	110,549	395,883	496,801	12,009,647	5,136,519	216,219	15,959	--	9,946
8/9/18	Technician		252,112	110,549	401,684	503,435	12,022,082	5,141,698	234,450	18,231	--	9,946
8/10/18	*		254,849	110,549	405,239	507,098	12,029,300	5,144,435	243,997	9,547	--	9,946
8/11/18	*		257,586	110,549	408,793	510,761	12,036,517	5,147,172	253,545	9,547	--	9,946
8/12/18	*		260,322	110,549	412,348	514,424	12,043,735	5,149,908	263,092	9,547	--	9,946
8/13/18	Technician		262,774	110,549	415,532	517,706	12,050,201	5,152,360	271,645	8,553	--	9,946
8/14/18	*		265,170	110,549	419,109	521,345	12,057,417	5,154,756	281,007	9,362	--	9,946
8/15/18	*		267,565	110,549	422,685	524,985	12,064,633	5,157,151	290,370	9,362	--	9,946
8/16/18	*		269,961	110,549	426,262	528,624	12,071,849	5,159,547	299,732	9,362	--	9,946
8/17/18	Technician		272,606	110,549	430,211	532,643	12,079,817	5,162,192	310,070	10,338	--	9,946
8/18/18	*		274,886	110,549	433,710	536,232	12,086,905	5,164,472	318,703	8,633	--	9,946
8/19/18	*		277,165	110,549	437,209	539,821	12,093,993	5,166,751	327,337	8,633	--	9,946
8/20/18	Technician	3	279,532	110,549	440,842	543,547	12,101,352	5,169,118	336,300	8,963	--	9,946
8/21/18	*		279,532	110,549	444,465	547,244	12,108,672	5,169,118	344,089	7,789	--	9,946
8/22/18	*		279,532	110,549	448,088	550,942	12,115,993	5,169,118	351,879	7,789	--	9,946
8/23/18	Technician	4	279,532	110,549	451,044	553,959	12,121,966	5,169,118	358,235	6,356	--	9,946
8/24/18	*		281,699	110,848	452,510	557,400	12,126,873	5,171,584	367,056	8,821	--	9,946
8/25/18	*		283,866	111,147	453,976	560,842	12,131,781	5,174,050	375,876	8,821	--	9,946
8/26/18	*		286,033	111,446	455,442	564,283	12,136,688	5,176,517	384,697	8,821	--	9,946
8/27/18	Technician	5	288,471	111,783	457,091	568,155	12,142,209	5,179,291	394,620	9,923	--	9,946
8/28/18	*		289,153	111,783	459,646	570,889	12,147,498	5,179,973	400,808	6,188	--	9,946
8/29/18	Technician		289,858	111,783	462,290	573,717	12,152,970	5,180,678	407,210	2,025	--	9,946
8/30/18	*		290,028	111,783	465,705	577,220	12,159,888	5,180,848	414,143	6,933	--	9,946
8/31/18	*		290,198	111,783	469,120	580,722	12,166,806	5,181,018	421,077	6,933	--	9,946

Cumulative Groundwater Discharged by the GWETS (gallons)				
Period	August	Quarter 1, 2018	Quarter 2, 2018	Quarter 3, 2018
Volume	328,773	189,822	482,184	448,565
				1,120,571
				78,833,784
				April 1996 to Date

Cumulative Mass DRO Removed by the GWETS ^A (lb)	
Period	August
Mass	0.11
	0.08
	9,945.7

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

Legend / Notes:
 1 = Pump in well GW-13 not functioning upon arrival and determined to require replacement.
 2 = Collected monthly process and intermediate samples for laboratory analysis.
 3 = Pump in well GW-2 not functioning upon arrival and determined to require maintenance.
 4 = Completed well GW-2 pump maintenance, installed new pump in well GW-13, and brought both extraction wells back online.
 5 = Recharge in well GW-13 determined to be minimal with pump being left off-line upon departure pending redevelopment work.

GWETS = Groundwater extraction and treatment system
 ug/L - Micrograms per liter
 lb = Pounds
 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: 8/6/18 (laboratory report attached).
 -- = Not applicable
 * = Operational values interpolated from chart recorder data or previous monitoring event.

TABLE 2C
Groundwater Extraction and Treatment System Operations Summary - September
 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)	Groundwater Extracted and Treated Per Day (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed ^A (lb)
9/1/18	*		290,368	111,783	472,536	584,225	12,173,723	5,181,188	428,010	6,933	--	9,946
9/2/18	*		290,538	111,783	475,951	587,728	12,180,641	5,181,358	434,943	6,933	--	9,946
9/3/18	*		290,708	111,783	479,366	591,230	12,187,569	5,181,528	441,877	6,933	--	9,946
9/4/18	*		290,878	111,783	482,781	594,733	12,194,477	5,181,698	448,810	6,933	--	9,946
9/5/18	Technician	1	291,028	111,783	485,793	597,822	12,200,578	5,181,848	454,925	6,115	--	9,946
9/6/18	*		291,028	111,783	488,795	600,860	12,206,618	5,181,848	460,333	5,408	--	9,946
9/7/18	Technician	2	291,028	111,783	492,266	604,373	12,213,602	5,181,848	466,585	6,252	--	9,946
9/8/18	*		291,028	111,783	495,664	607,788	12,220,415	5,181,848	472,874	6,289	--	9,946
9/9/18	*		291,028	111,783	499,062	611,202	12,227,227	5,181,848	479,163	6,289	--	9,946
9/10/18	*		291,028	111,783	502,459	614,617	12,234,040	5,181,848	485,453	6,289	--	9,946
9/11/18	*		291,028	111,783	505,857	618,032	12,240,852	5,181,848	491,742	6,289	--	9,946
9/12/18	*		291,028	111,783	509,255	621,447	12,247,665	5,181,848	498,031	6,289	--	9,946
9/13/18	Technician	3	291,028	111,783	511,945	624,150	12,253,058	5,181,848	503,010	4,979	ND <60	9,946
9/14/18	*		291,028	111,783	515,388	627,562	12,259,893	5,181,848	510,183	7,173	--	9,946
9/15/18	*		291,028	111,783	518,791	630,973	12,266,727	5,181,848	517,357	7,173	--	9,946
9/16/18	*		291,028	111,783	522,214	634,385	12,273,562	5,181,848	524,530	7,173	--	9,946
9/17/18	Technician		291,028	111,783	526,065	638,223	12,281,251	5,181,848	532,600	8,070	--	9,946
9/18/18	*		291,028	111,783	529,421	641,591	12,287,975	5,181,848	538,509	5,909	--	9,946
9/19/18	*		291,028	111,783	532,777	644,959	12,294,699	5,181,848	544,419	5,909	--	9,946
9/20/18	*		291,028	111,783	536,133	648,327	12,301,423	5,181,848	550,328	5,909	--	9,946
9/21/18	Technician		291,028	111,783	539,547	651,754	12,308,264	5,181,848	556,340	6,012	--	9,946
9/22/18	*		291,028	111,783	542,901	655,067	12,314,931	5,181,848	562,831	6,491	--	9,946
9/23/18	*		291,028	111,783	546,255	658,380	12,321,599	5,181,848	569,323	6,491	--	9,946
9/24/18	*		291,028	111,783	549,610	661,693	12,328,266	5,181,848	575,814	6,491	--	9,946
9/25/18	*		291,028	111,783	552,964	665,006	12,334,933	5,181,848	582,305	6,491	--	9,946
9/26/18	*		291,028	111,783	556,318	668,319	12,341,600	5,181,848	588,796	6,491	--	9,946
9/27/18	Technician		291,028	111,783	559,614	671,575	12,348,152	5,181,848	595,175	6,379	--	9,946
9/28/18	*		291,028	111,783	562,515	674,476	12,353,954	5,181,848	600,977	5,802	--	9,946
9/29/18	*		291,028	111,783	565,416	677,377	12,359,756	5,181,848	606,779	5,802	--	9,946
9/30/18	*		291,028	111,783	569,614	681,575	12,368,152	5,181,848	615,175	8,396	--	9,946

Cumulative Groundwater Discharged by the GWETS (gallons)				
Period	September	Quarter 1, 2018	Quarter 3, 2018	Quarter 4, 2018
Volume	194,098	189,822	642,663	--
				April 1996 to Date
				79,027,882

Cumulative Mass DRO Removed by the GWETS ^A (lb)		
Period	September	Quarter 3 to Date
Mass	0.05	0.16
		April 1996 to Date
		9,945.8

Legend/ Notes:

- 1 = Recharge in well GW-2 determined to be minimal with pump being left off-line upon departure pending redevelopment work.
- 2 = GWETS temporarily off-line to conduct media change out work.
- 3 = Collected monthly process and intermediate samples for laboratory analysis.

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

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

GWETS = Groundwater extraction and treatment system
 μg/L - Micrograms per liter

A = Hydrocarbon removal is calculated using analytical laboratory results for DRO (if not detected, half the detection limit is used) from sample collected on: 9/13/18 (laboratory report attached).

-- = Not applicable

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

lb = Pounds
 DRO = Diesel range organics

TABLE 3A
Carbon Vapor Extraction System Operations Summary - July
 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)
07/01/18	*		52,063	781	--	--	--	--	--	2,973,489
07/02/18	Technician	1,2	52,081	769	4	132	120	135	0.0	2,973,523
07/03/18	*		52,105	769	--	--	--	--	--	2,973,557
07/04/18	*		52,129	769	--	--	--	--	--	2,973,590
07/05/18	*		52,153	769	--	--	--	--	--	2,973,624
07/06/18	*		52,177	769	--	--	--	--	--	2,973,658
07/07/18	*		52,201	769	--	--	--	--	--	2,973,692
07/08/18	*		52,225	769	--	--	--	--	--	2,973,726
07/09/18	*		52,249	769	--	--	--	--	--	2,973,760
07/10/18	*		52,273	769	--	--	--	--	--	2,973,794
07/11/18	*		52,297	769	--	--	--	--	--	2,973,828
07/12/18	*		52,321	769	--	--	--	--	--	2,973,861
07/13/18	Technician		52,315	794	4	144	--	140	0.0	2,973,896
07/14/18	*		52,239	794	--	--	--	--	--	2,973,931
07/15/18	*		52,263	794	--	--	--	--	--	2,973,966
07/16/18	Technician		52,275	778	4	136	--	138	0.0	2,974,001
07/17/18	*		52,299	778	--	--	--	--	--	2,974,035
07/18/18	*		52,323	778	--	--	--	--	--	2,974,069
07/19/18	Technician		52,347	815	4	141	--	166	0.0	2,974,105
07/20/18	*		52,371	815	--	--	--	--	--	2,974,141
07/21/18	*		52,395	815	--	--	--	--	--	2,974,177
07/22/18	*		52,419	815	--	--	--	--	--	2,974,213
07/23/18	Technician		52,432	809	4	141	--	152	0.0	2,974,231
07/24/18	Off line		52,432	NA	--	--	--	--	--	2,974,231
07/25/18	*		52,432	NA	--	--	--	--	--	2,974,231
07/26/18	Technician		52,445	804	4	142	--	138	1.2	2,974,251
07/27/18	*		52,469	804	--	--	--	--	--	2,974,287
07/28/18	*		52,493	804	--	--	--	--	--	2,974,322
07/29/18	*		52,517	804	--	--	--	--	--	2,974,358
07/30/18	*		52,541	804	--	--	--	--	--	2,974,393
07/31/18	Technician		52,564	784	4	136	--	128	4.0	2,974,428

Cumulative Mass TPHg Removed by the VES ^D (lb)			
Period	July	Quarter 3 to Date	April 1996 to Date
Mass	953	953	2,974,428

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

Legend / Notes:
 1 = Collected monthly influent, after GAC-1, after GAC-2, and effluent samples for laboratory analysis.
 2 = Measured individual well vapor concentrations with a calibrated organic vapor analyzer.
 3 = VES temporarily off-line to conduct carbon change out fieldwork.
 * = Operational values interpolated from chart recorder data or previous monitoring event
 -- = Not applicable or not measured
 Vapor extraction wells on line this month: HW-1, HW-5, HW--7

VES = Soil vapor extraction system
 scfm = Standard cubic feet per minute
 A = Reading from chart recorder.
 B = Concentrations obtained with a calibrated organic vapor analyzer.
 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: 7/2/18 (laboratory report attached).

in. Hg = Inches of mercury
 °F = Degrees Fahrenheit
 ppmv = Parts per million by volume
 lb = Pounds

TABLE 3B
Carbon Vapor Extraction System Operations Summary - August

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 ^{BC} (ppmv)	Field Effluent Concentration ^{BC} (ppmv)	Cumulative Vapor-Phase GRO Removed ^D (lb)
08/01/18	*		52,588	784	--	--	--	--	--	2,974,462
08/02/18	*		52,612	784	--	--	--	--	--	2,974,497
08/03/18	*		52,636	784	--	--	--	--	--	2,974,531
08/04/18	*		52,660	784	--	--	--	--	--	2,974,566
08/05/18	*		52,684	784	--	--	--	--	--	2,974,600
08/06/18	Technician	1,2	52,575	801	3	138	49	134	0	2,974,606
08/07/18	*		52,599	801	--	--	--	--	--	2,974,620
08/08/18	*		52,623	801	--	--	--	--	--	2,974,635
08/09/18	Technician		52,614	794	3	132	--	167	0.0	2,974,649
08/10/18	*		52,638	794	--	--	--	--	--	2,974,663
08/11/18	*		52,662	794	--	--	--	--	--	2,974,677
08/12/18	*		52,686	794	--	--	--	--	--	2,974,692
08/13/18	Technician	3	52,633	808	3	140	--	106	0.0	2,974,698
08/14/18	Auto Shutdown		52,645	808	--	--	--	--	--	2,974,706
08/15/18	Off line		52,645	NA	--	--	--	--	--	2,974,706
08/16/18	Off line		52,645	NA	--	--	--	--	--	2,974,706
08/17/18	Off line		52,645	NA	--	--	--	--	--	2,974,706
08/18/18	Off line		52,645	NA	--	--	--	--	--	2,974,706
08/19/18	Off line		52,645	NA	--	--	--	--	--	2,974,706
08/20/18	Technician		52,680	820	3	140	--	117	0.0	2,974,719
08/21/18	*		52,704	820	--	--	--	--	--	2,974,734
08/22/18	*		52,728	820	--	--	--	--	--	2,974,748
08/23/18	Auto Shutdown		52,733	820	--	--	--	--	--	2,974,752
08/24/18	Technician		52,754	810	3	138	--	118	0.0	2,974,765
08/25/18	*		52,778	810	--	--	--	--	--	2,974,779
08/26/18	*		52,802	810	--	--	--	--	--	2,974,794
08/27/18	*		52,826	810	--	--	--	--	--	2,974,808
08/28/18	*		52,850	810	--	--	--	--	--	2,974,823
08/29/18	Technician		52,874	805	3	142	--	116	0.0	2,974,837
08/30/18	*		52,898	805	--	--	--	--	--	2,974,852
08/31/18	*		52,922	805	--	--	--	--	--	2,974,866

Cumulative Mass TPHg Removed by the VES ^A (lb)		
Period	August	Quarter 3 to Date
Mass	439	1,392
		2,974,866

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

Legend / Notes:
 1 = Collected monthly influent, after GAC-1, after GAC-2, and effluent samples for laboratory analysis.
 2 = Measured individual well vapor concentrations with a calibrated organic vapor analyzer.
 3 = System operational from 8pm until 10am due to inlet temperature issues (hot weather was increasing temperatures to near the 60C permit limit).
 * = Not applicable or not measured
 * = Operational values interpolated from chart recorder data or previous monitoring event.
 Vapor extraction wells on line this month: HW-1, HW-5, HW--7

VES = Soil vapor extraction system
 scfm = Standard cubic feet per minute
 A = Reading from chart recorder.
 B = Concentrations obtained with a calibrated organic vapor analyzer.
 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: 8/2/18 (laboratory report attached).

in. Hg = Inches of mercury
 °F = Degrees Fahrenheit
 ppmv = Parts per million by volume
 lb = Pounds

TABLE 3C
Carbon Vapor Extraction System Operations Summary - September
 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)
09/01/18	*		52,946	805	--	--	0.0	--	--	2,974,881
09/02/18	*		52,970	805	--	--	0.0	--	--	2,974,895
09/03/18	*		52,994	805	--	--	0.0	--	--	2,974,910
09/04/18	Technician		53,018	805	--	--	0.0	--	--	2,974,924
09/05/18			53,013	791	3	133	0.0	115	0.0	2,974,938
09/06/18	*		53,037	791	--	--	0.0	--	--	2,974,953
09/07/18	*		53,061	791	--	--	0.0	--	--	2,974,967
09/08/18	*		53,085	791	--	--	0.0	--	--	2,974,981
09/09/18	*		53,109	791	--	--	0.0	--	--	2,974,995
09/10/18	*		53,133	791	--	--	0.0	--	--	2,975,010
09/11/18	*		53,157	791	--	--	0.0	--	--	2,975,024
09/12/18	*		53,181	791	--	--	0.0	--	--	2,975,038
09/13/18	Technician	1,2	53,147	791	3	138	4.9	109	0.0	2,975,067
09/14/18	*		53,171	791	--	--	0.0	--	--	2,975,096
09/15/18	*		53,195	791	--	--	0.0	--	--	2,975,126
09/16/18	*		53,219	791	--	--	0.0	--	--	2,975,155
09/17/18	*		53,243	791	--	--	0.0	--	--	2,975,184
09/18/18	*		53,267	791	--	--	0.0	--	--	2,975,213
09/19/18	Technician		53,216	788	3	138	0.0	123	0	2,975,242
09/20/18	*		53,240	788	--	--	0.0	--	--	2,975,271
09/21/18	Technician		53,253	801	3	132	0.0	128	0.0	2,975,301
09/22/18	*		53,277	801	--	--	0.0	--	--	2,975,330
09/23/18	*		53,301	801	--	--	0.0	--	--	2,975,360
09/24/18	*		53,325	801	--	--	0.0	--	--	2,975,389
09/25/18	*		53,349	801	--	--	0.0	--	--	2,975,419
09/26/18	*	3	53,373	801	--	--	0.0	--	--	2,975,448
09/27/18	Technician		53,392	830	3	138	0.0	138	0.0	2,975,479
09/28/18	*		53,416	830	--	--	0.0	--	--	2,975,509
09/29/18	*		53,440	830	--	--	0.0	--	--	2,975,540
09/30/18	*		53,464	830	--	--	0.0	--	--	2,975,571

Cumulative Mass TPHg Removed by the VES ^A (lb)		
Period	September	Quarter 3 to Date
Mass	704	2,096

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

Legend / Notes:
 1 = Collected monthly influent, after GAC-1, after GAC-2, and effluent samples for laboratory analysis.
 2 = Measured individual well vapor concentrations with a calibrated organic vapor analyzer.
 3 = VES temporarily off-line to conduct carbon change out fieldwork.
 * = Not applicable or not measured
 * = Operational values interpolated from chart recorder data or previous monitoring event.
 Vapor extraction wells on line this month: HW-1, HW-5, HW--7

VES = Soil vapor extraction system
 scfm = Standard cubic feet per minute
 A = Reading from chart recorder.
 B = Concentrations obtained with a calibrated organic vapor analyzer.
 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 9/13/18 (laboratory reports attached).

in. Hg = Inches of mercury
 °F = Degrees Fahrenheit
 ppmv = Parts per million by volume
 lb = Pounds

TABLE 4A
Thermal Oxidizer Vapor Extraction System Operations Summary - July
 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)	Oxidizer Inlet Temperature (°F)	Laboratory Process GRO Concentration (ppmv)	Field Process Concentration ^{B,C} (ppmv)	Field Effluent Concentration ^{B,C} (ppmv)	Cumulative Vapor-Phase GRO Removed ^D (lb)
07/01/18	off line	1	NA	NA	--	--	--	--	--	--
07/02/18	Technician	2	3017.3	245	7	1,448	560	890	19	1,878
07/03/18	*		3023.8	245	--	--	--	--	--	1,891
07/04/18	*		3030.2	245	--	--	--	--	--	1,905
07/05/18	*		3036.7	245	--	--	--	--	--	1,918
07/06/18	*		3043.1	245	--	--	--	--	--	1,932
07/07/18	off line	1	NA	NA	--	--	--	--	--	NA
07/08/18	off line	1	NA	NA	--	--	--	--	--	NA
07/09/18	Technician		3,062.5	225	8	1,450	--	994	19	1,970
07/10/18	*		3076.0	225	--	--	--	--	--	1,996
07/11/18	*		3089.5	225	--	--	--	--	--	2,022
07/12/18	*		3103.0	225	--	--	--	--	--	2,048
07/13/18	Technician		3116.5	237	8	1,458	--	878	13	2,075
07/14/18	off line	1	NA	NA	--	--	--	--	--	NA
07/15/18	off line	1	NA	NA	--	--	--	--	--	NA
07/16/18	Technician		3,122.0	237	7	1,446	--	807	11	2,087
07/17/18	Technician		3140.0	298	5	1,445	--	1,682	6	2,133
07/18/18	*		3147.3	298	--	--	--	--	--	2,152
07/19/18	*		3154.7	298	--	--	--	--	--	2,170
07/20/18	*		3162.0	298	--	--	--	--	--	2,189
07/21/18	off line	1	NA	NA	--	--	--	--	--	NA
07/22/18	off line	1	NA	NA	--	--	--	--	--	NA
07/23/18	Technician		3184.0	312	4.0	1,446	--	1,230	20	2,248
07/24/18	*		3197.0	312	--	--	--	--	--	2,283
07/25/18	*		3205.9	312	--	--	--	--	--	2,318
07/26/18	Technician		3222.9	319	4	1,445	--	1,727	17	2,354
07/27/18	*		3229.2	319	--	--	--	--	--	2,371
07/28/18	off line	1	NA	NA	--	--	--	--	--	NA
07/29/18	off line	1	NA	NA	--	--	--	--	--	NA
07/30/18	Technician		3247.9	306	5	1,447	--	1,784	13	2,421
07/31/18	*		3255.3	306	--	--	--	--	--	2,440

Cumulative Mass TPHg Removed by the VES ^D (lb)		
Period	July	Quarter 3 to Date
Mass	2,118.3	2,118.3
		January 2018 to Date
		2,420.5

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

Legend / Notes:

- 1 = Thermal oxidizer manually shut down for weekend.
- 2 = Thermal oxidizer restarted.
- 3 = Collected monthly influent and effluent samples for laboratory analysis.

System operating under SCAQMD Various Locations Permit #F97121
 Vapor extraction wells on line this month: RW-1, RW-4, RW-5, RW-7, RW-9, RW-10, RW-11, RW-13, RW-14, RW-18 and RW-26, VEW-38, and VEW-40.

VES = Soil vapor extraction system
 in. Hg = Inches of mercury
 °F = Degrees Fahrenheit
 scfm = Standard cubic feet per minute
 GRO = Gasoline range organics in vapor

A = Reading measured using Dwyer DS-300 flow sensor.
 B = Concentrations obtained with a calibrated organic vapor analyzer.
 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: 4/2/18 (laboratory report attached).

NA = Not available
 -- = Not applicable or not measured

TABLE 4B
Thermal Oxidizer Vapor Extraction System Operations Summary - August

DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process ^A Flow (scfm)	VES Manifold Vacuum (in. Hg)	Oxidizer Inlet Temperature (°F)	Laboratory Process GRO Concentration (ppmv)	Field Process Concentration ^{B,C} (ppmv)	Field Effluent Concentration ^{B,C} (ppmv)	Cumulative Vapor-Phase GRO Removed ^D (lb)
08/01/18	*		3262.8	306	--	--	--	--	--	2,460
08/02/18	*		3270.2	306	--	--	--	--	--	2,479
08/03/18	*		3277.7	306	--	--	--	--	--	2,499
08/04/18	off line	1	NA	NA	--	--	--	--	--	NA
08/05/18	off line	1	NA	NA	--	--	--	--	--	NA
08/06/18	Technician	2	3,300.0	321	4.0	1,446	710	876	25	2,577
08/07/18	*		3310.8	321	--	--	--	--	--	2,614
08/08/18	*		3321.5	321	--	--	--	--	--	2,652
08/09/18	Technician		3,332.3	325	4.0	1,446	--	1,576	18	2,690
08/10/18	*		3340.0	325	--	--	--	--	--	2,717
08/11/18	off line	1	NA	NA	--	--	--	--	--	NA
08/12/18	off line	1	NA	NA	--	--	--	--	--	NA
08/13/18	Technician		3,363.2	321	4.0	1,443.0	--	1,067.0	21	2,798
08/14/18	*		3374.1	321	--	--	--	--	--	2,836
08/15/18	*		3385.1	321	--	--	--	--	--	2,874
08/16/18	*		3396.0	321	--	--	--	--	--	2,912
08/17/18	Technician		3,406.9	321	4.0	1,447	--	936	17	2,951
08/18/18	off line	1	NA	NA	--	--	--	--	--	NA
08/19/18	off line	1	NA	NA	--	--	--	--	--	NA
08/20/18	Technician		3,421.0	321	4.0	1,445	--	1,062	16	3,000
08/21/18	*		3433.7	321	--	--	--	--	--	3,044
08/22/18	*		3446.3	321	--	--	--	--	--	3,088
08/23/18	*		3459.0	321	--	--	--	--	--	3,132
08/24/18	Technician		3,471.6	317	4.0	1,444	--	1,241	18	3,176
08/25/18	off line	1	NA	NA	--	--	--	--	--	NA
08/26/18	off line	1	NA	NA	--	--	--	--	--	NA
08/27/18	*		3494.5	317	--	--	--	--	--	3,254
08/28/18	*		3502.2	317	--	--	--	--	--	3,281
08/29/18	Technician		3,509.8	315	4.0	1,443	--	901	19	3,307
08/30/18	*		3,517.0	315	--	--	--	--	--	3,331
08/31/18	*		3,524.2	315	--	--	--	--	--	3,356

Cumulative Mass TPHg Removed by the VES ^D (lb)		
Period	Quarter 3 to Date	January 2018 to Date
Mass	August 935.5	3,053.8

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

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

A = Reading measured using Dwyer DS-300 flow sensor.
 B = Concentrations obtained with a calibrated organic vapor analyzer.
 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: 5/2/18 (laboratory report attached).
 No samples were analyzed in February due to site condition and system operation status.

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

System operating under SCAQMD Various Locations Permit #F97121
 Vapor extraction wells on line this month: VEW-38, VEW-40, RW-1, RW-4, RW-5, RW-7, RW-9, RW-10, RW-11, RW-13, RW-14, RW-18, and RW-26. □

TABLE 4C
Thermal Oxidizer Vapor Extraction System Operations Summary - September
 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)	Oxidizer Inlet Temperature (°F)	Laboratory Process GRO Concentration (ppmv)	Field Process Concentration ^{B,C} (ppmv)	Field Effluent Concentration ^{B,C} (ppmv)	Cumulative Vapor-Phase GRO Removed ^D (lb)
09/01/18	off line	1	NA	NA	--	--	--	--	--	--
09/02/18	off line	1	NA	NA	--	--	--	--	--	--
09/03/18	*		3,545.7	315	--	--	--	--	--	3,430
09/04/18	*		3,552.9	315	--	--	--	--	--	3,454
09/05/18	Technician		3,560.1	315	4	1,443	--	901	19	3,479
09/06/18	*		3,572.7	315	--	--	--	--	--	3,522
09/07/18	Technician		3,585.2	402	4	1,446	--	960	17	3,577
09/08/18	off line	1	NA	NA	--	--	--	--	--	NA
09/09/18	off line	1	NA	NA	--	--	--	--	--	NA
09/10/18	*		3,612.6	402	--	--	--	--	--	3,696
09/11/18	*		3,621.7	402	--	--	--	--	--	3,736
09/12/18	*		3,630.8	402	--	--	--	--	--	3,776
09/13/18	Technician	2	3,639.9	402	5	1,445	930.0	935	18	3,828
09/14/18	*		3,649.0	402	--	--	--	--	--	3,880
09/15/18	off line	1	NA	NA	--	--	--	--	--	NA
09/16/18	off line	1	NA	NA	--	--	--	--	--	NA
09/17/18	*		3,676.3	402.0	--	--	--	--	--	NA
09/18/18	*		3,685.4	402	--	--	--	--	--	4,036
09/19/18	Technician		3,694.5	314	5	1,446	--	1,410	19	3,973
09/20/18	*		3,708.0	314	--	--	--	--	--	4,033
09/21/18	Technician		3,721.4	314	5	1,447	--	1,356	15	4,093
09/22/18	off line	1	NA	NA	--	--	--	--	--	NA
09/23/18	off line	1	NA	NA	--	--	--	--	--	NA
09/24/18	*		3,745.7	314	--	--	--	--	--	4,201
09/25/18	*		3,753.7	314	--	--	--	--	--	4,237
09/26/18	*		3,761.8	314	--	--	--	--	--	4,273
09/27/18	Technician		3,769.9	322	5	1,445	--	1,359	22	4,310
09/28/18	*		3,774.8	322	--	--	--	--	--	4,333
09/29/18	off line	1	NA	NA	--	--	--	--	--	NA
09/30/18	off line	1	NA	NA	--	--	--	--	--	NA

Cumulative Mass TPHg Removed by the VES ^D (lb)			
Period	September	Quarter 3 to Date	January 2018 to Date
Mass	#VALUE!	#VALUE!	NA

Legend / Notes:
 1 = Thermal oxidizer manually shut down for weekend.
 2 = Thermal oxidizer restarted.
 3 = Collected monthly influent and effluent samples for laboratory analysis.
 4 = Operational data (flow/vacuum/PID) measured for southern area wells, and analytical samples collected from wells VEW-38, -39, -40, and RW-21 through RW-50.

System operating under SCAQMD Various Locations Permit #F97121
 Vapor extraction wells on line (June 1 - June 6): VEW-38, VEW-40, RW-1, RW-4, RW-5, RW-7, RW-9, RW-10, RW-11, RW-13, RW-14, RW-18, and RW-26. □
 Vapor extraction wells on line (June 6 - June 27): VEW-39, RW-1, RW-4, RW-5, RW-9, RW-10, RW-11, RW-13, RW-14, and RW-18. □
 Vapor extraction wells on line (June 27 - June 30): VEW-38, VEW-40, RW-19, RW-20, RW-22, RW-24, RW-26 through RW-30, RW-32, RW-33, RW-35 through RW-38, and RW-40 through RW-50
 Note: wells VEW-38, VEW-40, RW-19, RW-20, RW-22, RW-24, RW-26 through RW-30, RW-32, RW-33, RW-35 through RW-38, and RW-40 through RW-50 were activated on June 27 based on the initial test, and well VEW-39 was shut off due to low vapor concentration

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

VES = Soil vapor extraction system in. Hg = Inches of mercury
 scfm = Standard cubic feet per minute °F = Degrees Fahrenheit
 ppmv = Parts per million by volume lb = Pounds
 A = Reading measured using Dwyer DS-300 flow sensor.
 B = Concentrations obtained with a calibrated organic vapor analyzer.
 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: 6/6/18 (laboratory report attached).

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

TABLE 5A
Summary of LNAPL Removal in Well GMW-7 - 3rd Quarter 2018
 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 (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Pumping, Bailing and Socks ^A (pounds)
07/03/18	33.54	34.48	0.94	0	3.3	0.5	27	185
08/31/18	--	36.18	--	0	1.3	0.2	27	186
Cumulative for the Reporting Period:								
				0	4.5	0.7	0.7	4.5
Cumulative Beginning December 2014^A:								
				8.0	131	19	27	186

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

TABLE 5B
Summary of LNAPL Removal in Well GMW-18 - 3rd Quarter 2018
 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 (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
07/03/18	35.70	38.15	2.45	2.5	No Sock in Well	No Sock in Well	43	295
07/25/18	35.60	37.56	1.96	1.5	No Sock in Well	No Sock in Well	45	306
08/01/18	35.60	37.68	2.08	1.5	No Sock in Well	No Sock in Well	46	316
08/08/18	35.58	37.49	1.91	2.0	No Sock in Well	No Sock in Well	48	330
08/24/18	35.85	38.28	2.43	2.0	No Sock in Well	No Sock in Well	50	343
08/31/18	35.76	37.81	2.05	2.0	No Sock in Well	No Sock in Well	52	357
09/05/18	35.88	38.17	2.29	2.0	No Sock in Well	No Sock in Well	54	371

Cumulative for the Reporting Period:	14	0	0	14	0	11	14	92
Cumulative Beginning March 2017^A:	43	76	11	54	54	371	54	371

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 5C
Summary of LNAPL Removal in Well GMW-62 - 3rd Quarter 2018
 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 (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
08/01/18	--	35.72	--	0.0	1.7	0.2	138	942
09/19/18	--	35.82	--	0.0	1.3	0.2	138	943

Cumulative for the Reporting Period:				0.0	2.9	0.4	0.4	2.9
Cumulative Beginning January 2014^A:				112	177	26	138	943

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 5D
Summary of LNAPL Removal in Well GMW-68 - 3rd Quarter 2018
 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 (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
07/03/18	--	34.49	--	0	2.8	0.4	57	388
07/25/18	--	34.64	--	0	2.9	0.4	57	391
08/01/18	--	38.15	--	0	2.0	0.3	57	393
08/24/18	34.73	34.77	0.04	0	2.8	0.4	58	396
08/31/18	--	34.78	--	0	1.3	0.2	58	397
09/19/18	34.91	34.93	0.02	0	1.8	0.3	58	399
Cumulative for the Reporting Period:				0	13	1.9	1.9	13
Cumulative Beginning October 2016 ^A:				34	173	25	58	399

Legend / Notes:

LNAPL = Light non-aqueous phase liquids

feet btc = Feet below top of casing

Socket = 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 5E
Summary of LNAPL Removal in Well TF-15 - 3rd Quarter 2018
 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 (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
07/03/18	34.26	37.05	2.79	2.8	No Sock in Well	NA	94	645
07/25/18	34.23	36.68	2.45	2.8	No Sock in Well	NA	97	664
08/01/18	34.19	36.46	2.27	2.5	No Sock in Well	NA	100	681
08/08/18	34.12	36.29	2.17	2.0	No Sock in Well	NA	102	695
08/24/18	34.47	37.27	2.80	2.8	No Sock in Well	NA	104	714
08/31/18	34.31	36.62	2.31	2.8	No Sock in Well	NA	107	732
09/05/18	34.48	37.21	2.73	2.8	No Sock in Well	NA	110	751

Cumulative for the Reporting Period:	18	0	0	18	0	0	125
Cumulative Beginning October 2016^A:	102	53	7.7	110	110	751	

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 excavaton project (January 2015 - March 2017) 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 5F
Summary of LNAPL Removal in Well TF-19 - 3rd Quarter 2018
 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 (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Pumping, Bailing and Socks ^A (pounds)
07/25/18	33.52	33.96	0.44	0	3.1	0.4	31	214
08/01/18	33.60	33.75	0.15	0	2.4	0.3	32	217
08/24/18	--	33.82	--	0	2.8	0.4	32	220
08/31/18	--	33.83	--	0	1.5	0.2	32	221
09/19/18	--	34.05	--	0	2.3	0.3	33	223

Cumulative for the Reporting Period:	0	12	1.7	12	1.7	12	1.7	12
Cumulative Beginning June 2015^A:	6.8	177	26	33	33	33	33	223

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 5G
Summary of LNAPL Removal in Well TF-16 - 3rd Quarter 2018
 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 (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
07/19/18	35.52	37.85	2.33	2.0	No Sock in Well	0.0	274.5	1,878.3
07/23/18	34.73	35.06	0.33	4.0	No Sock in Well	0.0	278.5	1,905.7
08/01/18	34.75	35.44	0.69	1.0	No Sock in Well	0.0	279.5	1,912.5
08/03/18	34.81	34.91	0.10	2.0	No Sock in Well	0.0	281.5	1,926.2
09/19/18	34.71	36.60	1.89	2.0	No Sock in Well	0.0	283.5	1,939.9
09/30/18	--	--	--	6.0	No Sock in Well	0.0	289.5	1,980.9

Cumulative for the Reporting Period:	17	0	0	17	0	0	17	75
Cumulative Beginning March 2017 - September 2018^B:	280	0	0	280	0	0	280	1,916
Cumulative Beginning October 2016^A:	284	36	5.2	284	36	5.2	289	1,981

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 excavaton project (January 2015 - March 2017) 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) with skimmer manually shutdown on March 28, 2018 to allow for LNAPL recovery which occurred during the current reporting period (i.e., pumping resumed July 19, 2018 on an intermittent basis, and regularly since September 19, 2018).

TABLE 5H
Summary of LNAPL Removal in Well TF-18 - 3rd Quarter 2018
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet b/c)	Depth to Water (feet b/c)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
07/03/18	33.10	34.62	1.52	4.0	0	0.0	2,146.0	14,685.5
07/19/18	32.97	35.00	2.03	18.0	0	0.0	2,164.0	14,808.6
07/23/18	32.85	34.39	1.54	5.0	0	0.0	2,169.0	14,842.9
08/01/18	32.90	34.78	1.88	9.0	0	0.0	2,178.0	14,904.5
08/08/18	32.85	34.69	1.84	7.0	0	0.0	2,185.0	14,952.4
08/15/18	32.92	34.98	2.06	6.0	0	0.0	2,191.0	14,993.4
08/24/18	33.08	35.64	2.56	10.0	0	0.0	2,201.0	15,061.8
08/29/18	33.11	34.62	1.51	4.0	0	0.0	2,205.0	15,089.2
09/19/18	33.19	34.71	1.52	17.0	0	0.0	2,222.0	15,205.6
09/30/18	--	--	--	11.0	0	0.0	2,233.0	15,280.8

Cumulative for the Reporting Period:	91	0	0	0	0	91	547
Cumulative Beginning January 2014 - July 2016 ^A :	266	307	45	311	2,128		
Cumulative Beginning August 2016 - September 2018 ^B :	1,922	0	0	1,922	13,153		
Cumulative Beginning January 2014 ^A :	2,188	307	45	2,233	15,281		

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet b/c = 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 (skimming initially isolated to well TF-18 for testing purposes with other wells coming online August 11, 2016).

* = 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 occurred after approximately six months (i.e., pumping resumed August 2017).

TABLE 5I
Summary of LNAPL Removal in Well TFR-12 - 3rd Quarter 2018
 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 (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
07/03/18	35.78	38.60	2.82	2.8	No Sock in Well	NA	30.3	207
07/25/18	35.36	37.73	2.37	3.5	No Sock in Well	NA	33.8	231
08/01/18	35.37	37.90	2.53	3.0	No Sock in Well	NA	36.8	251
08/08/18	35.33	37.71	2.38	3.5	No Sock in Well	NA	40.3	275
08/24/18	35.55	38.51	2.96	3.8	No Sock in Well	NA	44.0	301
08/31/18	35.51	38.09	2.58	3.0	No Sock in Well	NA	47.0	322
09/05/18	35.56	38.52	2.96	3.3	No Sock in Well	NA	50.3	344

Cumulative for the Reporting Period:	23	0	0	23	0	0	23	156
Cumulative Beginning April 2018^{A,B}:	50	0	0	50	0	0	50	344

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 2018 following installation of well during December 2017.
 B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of a product recovery system that started operating on August 8, 2016 (skimming from well TFR-12 initiated on April 23, 2018).

TABLE 5J
Summary of LNAPL Removal in Well TFR-29 - 3rd Quarter 2018
 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 (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
07/03/18	32.48	39.60	7.12	13	No Sock in Well	NA	88	602
07/25/18	32.17	38.90	6.73	10	No Sock in Well	NA	98	670
08/01/18	32.24	39.03	6.79	12	No Sock in Well	NA	110	752
08/08/18	32.25	38.86	6.61	11	No Sock in Well	NA	121	827
08/24/18	32.42	39.21	6.79	11	No Sock in Well	NA	132	903
08/29/18	32.38	39.09	6.71	10	No Sock in Well	NA	142	971
09/05/18	32.52	39.25	6.73	10	No Sock in Well	NA	151	1,036
Cumulative for the Reporting Period:				77	0	0	77	526
Cumulative Beginning April 2018^{A,B}:				151	0	0	151	1,036

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 2018 following installation of well during November 2017.
 B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of a product recovery system that started operating on August 8, 2016 (skimming from well TFR-12 initiated on April 23, 2018).

TABLE 5K
Summary of LNAPL Removal in Well RTF-18-N - 3rd Quarter 2018
 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 (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
07/03/18	32.76	34.15	1.39	2.0	0	0	375	2,566
07/19/18	32.51	34.63	2.12	6.0	0	0	381	2,607
07/23/18	32.41	34.02	1.61	5.0	0	0	386	2,641
08/01/18	32.53	34.45	1.92	5.0	0	0	391	2,676
08/08/18	32.49	34.33	1.84	4.0	0	0	395	2,703
08/15/18	32.60	34.53	1.93	4.0	0	0	399	2,730
08/24/18	32.83	34.78	1.95	6.0	0	0	405	2,772
08/29/18	32.68	34.53	1.85	3.0	0	0	408	2,792
09/19/18	32.87	34.22	1.35	8.0	0	0	416	2,847
09/30/18	--	--	--	5.0	0	0	421	2,881

Cumulative for the Reporting Period:								
				48	0	0	48	328
Cumulative Beginning April 2016 - July 2016^A:								
				48	0	0	48	325
Cumulative Beginning August 2016 - September 2018^B:								
				374	0	0	374	2,556
Cumulative Beginning April 2016^A:								
				421	0	0	421	2,881

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 (skimming from well RTF-18-N initiated on August 11, 2016).

* = Well RTF-18-N was off-line from September 14, 2016 to October 10, 2017 to allow for LNAPL recovery with pumping again stopped on November 30, 2017 due to insufficient yield (skimmer operations subsequently resumed again on January 7, 2018 and continued through the end of the current reporting period).

TABLE 5L
Summary of LNAPL Removal in Well RTF-18-E - 3rd Quarter 2018
 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 (pounds)	LNAPL Removed with Socks (gallons)	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 3rd Quarter 2018					
Cumulative for the Reporting Period:								
			0	0	0	0	0	0
			48	0	0	48	48	325
			583	0	0	583	583	3,990
			631	0	0	631	631	4,315

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 (skimming from well RTF-18-E initiated on August 11, 2016).

* = Well RTF-18-E was off-line from February 15, 2017 to October 4, 2017 to allow for LNAPL recovery which continued to be sufficient for effective removal via skimming until March 15, 2018 when the pump was again shutdown and remained off-line through the current reporting period due to insufficient yield.

TABLE 5M
Summary of LNAPL Removal in Well RTF-18-W - 3rd Quarter 2018
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet b/c)	Depth to Water (feet b/c)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
07/03/18	33.60	34.92	1.32	2.0	0	0	165	1,127
07/19/18	33.03	35.35	2.32	9.0	0	0	174	1,189
07/23/18	33.03	34.42	1.39	3.0	0	0	177	1,210
08/01/18	33.13	34.78	1.65	7.0	0	0	184	1,257
08/08/18	33.05	34.82	1.77	5.0	0	0	189	1,292
08/15/18	33.13	35.08	1.95	4.0	0	0	193	1,319
08/24/18	33.28	35.92	2.64	6.0	0	0	199	1,360
08/29/18	33.19	35.15	1.96	3.0	0	0	202	1,381
09/19/18	33.27	35.33	2.06	7.0	0	0	209	1,429
09/30/18	--	--	--	5.0	0	0	214	1,463

Cumulative for the Reporting Period:	51	0	0	0	0	51	349
Cumulative Beginning April 2016 - July 2016^A:	39	0	0	0	0	39	265
Cumulative Beginning August 2016 - September 2018^B:	175	0	0	0	0	175	1,198
Cumulative Beginning April 2016^A:	214	0	0	0	0	214	1,463

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet b/c = 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 (skimming from well RTF-18-W initiated on September 14, 2016).

* = Well RTF-18-W was off-line from December 9, 2016 to October 10, 2017 to allow for LNAPL recovery which continues to be sufficient for effective removal via skimming.

TABLE 5N
Summary of LNAPL Removal in Well RTF-18-NW - 3rd Quarter 2018
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet b/c)	Depth to Water (feet b/c)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
07/03/18	33.56	34.90	1.34	2.0	0	0	2,765	18,918
07/19/18	32.96	35.17	2.21	25.0	0	0	2,790	19,089
07/23/18	32.82	34.53	1.71	4.0	0	0	2,794	19,117
08/01/18	32.99	34.94	1.95	8.0	0	0	2,802	19,171
08/08/18	32.93	34.76	1.83	7.0	0	0	2,809	19,219
08/15/18	33.03	35.06	2.03	6.0	0	0	2,815	19,260
08/24/18	33.27	35.67	2.40	9.0	0	0	2,824	19,322
08/29/18	33.12	35.07	1.95	5.0	0	0	2,829	19,356
09/19/18	33.18	35.18	2.00	20.0	0	0	2,849	19,493
09/30/18	--	--	--	10.0	0	0	2,859	19,561

Cumulative for the Reporting Period:	96	0	0	0	0	96	657
Cumulative Beginning May 2016 - July 2016^A:	77	0	0	0	0	77	524
Cumulative Beginning August 2016 - September 2018^B:	2,782	0	0	0	0	2,782	19,038
Cumulative Beginning May 2016^A:	2,859	0	0	0	0	2,859	19,561

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet b/c = 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 (skimming from well RTF-18-NW initiated on August 11, 2016).

* = Well RTF-18-NW was off-line from February 15, 2017 to August 10, 2017 to allow for LNAPL recovery which continues to be sufficient for effective removal via skimming.

TABLE 50
Summary of LNAPL Removal in Well RTF-18-NNW - 3rd Quarter 2018
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet b/c)	Depth to Water (feet b/c)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	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 3rd Quarter 2018							
Cumulative for the Reporting Period:								
Cumulative Beginning April 2016 - July 2016^A:								
			0	55	0	0	0	0
Cumulative Beginning August 2016 - September 2018^B:								
			49	103	0	49	103	332
Cumulative Beginning April 2016^A:								
			103	103	0	103	103	705

Legend // Notes:

LNAPL = Light non-aqueous phase liquids feet b/c = 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 (skimming from well RTF-18-NNW initiated on September 14, 2016 (off-line since January 9, 2017*).

* = Product recovery system off-line from January 9-27, 2017 due to full storage tank, and well RTF-18-NNW has since remained off-line to allow for LNAPL recovery which decreased from January 2017 to March 2017 with no measurable product from early March 2017 through mid-September 2017, and less than 0.3 foot at the end of 2017 (note that product thicknesses have since exhibited a further increasing overall trend thus far during 2018 with skimming scheduled to resume from well RTF-18-NNW during the next reporting period).

TABLE 6
Historical Summary of Analytical Groundwater Sampling Results - Influent GWETS
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	GWETS Wells On Line	Laboratory Analysis Methods	TPHd (µg/L)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	m,p-Xylenes (µg/L)	o-Xylene (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (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
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

TABLE 6
Historical Summary of Analytical Groundwater Sampling Results - Influent GWETS
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	GWETS Wells On Line	Laboratory Analysis Methods	TPHd (µg/L)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	m,p-Xylenes (µg/L)	o-Xylene (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
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	<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	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	<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	<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	<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	<10	0.87	<2.0	<2.0	<2.0
05/29/14	1	--	--	--	29	1.0	30	180	45	<10	<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	<7.0	<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	<7.0	<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	<7.0	<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	<7.0	<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	<7.0	<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	<7.0	<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	<7.0	<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	<7.0	<7.0	0.45	<0.50	<0.40	<0.30
03/27/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	620	950	9.9	<0.30	2.7	18	<7.0	<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	<7.0	<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	<7.0	<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	<7.0	<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	<7.0	<7.0	0.73 J	<0.50	<0.40	<0.30
11/02/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	420	3,400	5.1	<0.30	17	130	<7.0	<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

TABLE 6
Historical Summary of Analytical Groundwater Sampling Results - Influent GWETS
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	GWETS Wells On Line	Laboratory Analysis Methods	TPHd (µg/L)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	m,p-Xylenes (µg/L)	o-Xylene (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
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
07/19/17	5	GW-2, GW-15, GW-16	8015M & 8260B	75 J	<40	3.4	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
08/02/17		GW-2, GW-15, GW-16	8015M & 8260B	80 J	<40	4.0	<0.30	<0.20	<0.40	<0.30	<7.0	0.88 J	<0.50	<0.40	<0.30
09/13/17		GW-2, GW-15, GW-16	8015M & 8260B	84 J	<40	<0.20	<0.30	<0.20	<0.40	<0.30	<7.0	0.69 J	<0.50	<0.40	<0.30
10/16/17		GW-2, GW-15, GW-16	8015M & 8260B	64 J	<40	3.7	<0.30	<0.20	<0.40	<0.30	<7.0	0.54 J	<0.50	<0.40	<0.30
11/13/17		GW-2, GW-15, GW-16	8015M & 8260B	78 J	<40	4.5	<0.30	<0.20	<0.40	<0.30	<7.0	0.54 J	<0.50	<0.40	<0.30
12/11/17	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	2.8	<0.30	<0.20	<0.40	<0.30	8.8 J	<0.40	<0.50	<0.40	<0.30
01/11/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	73 J	<40	2.0	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
02/26/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	130	<40	5.3	<0.30	<0.20	<0.40	<0.30	<7.0	0.49 J	<0.50	<0.40	<0.30
03/20/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	4.4	<0.30	<0.20	<0.40	<0.30	<7.0	0.47 J	<0.50	<0.40	<0.30
04/02/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	65 J	<40	2.9	<0.30	<0.20	<0.40	<0.30	<7.0	0.50 J	<0.50	<0.40	<0.30
05/02/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	130	<40	2.5	<0.30	<0.20	<0.40	<0.30	<7.0	0.74 J	<0.50	<0.40	<0.30
06/04/18		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	0.74	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
07/02/18	8	GW-2, GW-13, GW-15, GW-17	8015M & 8260B	<60	<41	1.1	<0.30	<0.20	<0.40	<0.30	<7.1	0.41 J	<0.50	<0.40	<0.30
08/06/18		GW-2, GW-13, GW-15, GW-18	8015M & 8260B	<60	<41	3.1	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
09/13/18		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<41	0.38 J	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30

TABLE 6
Historical Summary of Analytical Groundwater Sampling Results - Influent GWETS
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	GWETS Wells On Line	Laboratory Analysis Methods	TPHd (µg/L)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	m,p-Xylenes (µg/L)	o-Xylene (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
-------------	-------	---------------------	-----------------------------	----------------	----------------	-------------------	-------------------	------------------------	-----------------------	--------------------	---------------	----------------	----------------	----------------	----------------

Legend / Notes on Next Page.

Legend / Notes:

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

GWETS = Groundwater extraction and treatment system

ETBE = Ethyl tertiary-butyl ether

<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, 04/17/17 and 07/03/17, and restarted on 04/27/15, 05/08/15, 04/28/16, 10/12/16, 11/23/16, 03/15/17, 04/25/17 and 07/17/17, respectively.

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

7 = GWETS manually shut down on 11/20/17 and largely remained off-line through late May 2018 with the exception of a few operational days and/or weeks to collect system removal performance samples following the completion of media change out work and/or to complete routine groundwater monitoring and sampling work as well as system maintenance activities.

8 = GWETS manually shut down from 7/9/18 to 7/12/18 for installation of replacement discharge totalizer. System shutdown from 7/13/18 to 7/16/18 for repairs. System shutdown from 7/18/18 to 7/20/18 for GAC changeout.

TPHd = Total petroleum hydrocarbons as diesel

TPHg = Total petroleum hydrocarbons as gasoline

MTBE = Methyl tertiary-butyl ether

TAME = tertiary-Amyl-methyl ether

TBA = tertiary-Butyl alcohol

µg/L = Micrograms per liter

DIPE = Diisopropyl ether

-- = Not available or not analyzed

TABLE 7
Historical Summary of Analytical Vapor Sampling Results - Influent Carbon VES

DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	Vapor Extraction System Wells On Line	Laboratory Analysis Methods	GRO Field OVA Reading (ppmv)	GRO		GRO as Hexane		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		Total Xylenes		MTBE		
					(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)	(ppmv)
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	<-0.0050	<-0.019	0.028	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	<-0.0050	<-0.022	<-0.010	<-0.043	<-0.015	<-0.065	<-0.010	<-0.036
04/23/14		--	VIEW-33, VIEW-34, VIEW-35, VIEW-36, VIEW-37, HW-1, HW-3, HW-5, HW-7	1.9	--	<3.0	<11	<-0.0050	<-0.016	<-0.0050	<-0.019	<-0.0050	<-0.022	<-0.0050	<-0.022	<-0.0050	<-0.022	<-0.010	<-0.043	<-0.015	<-0.065	<-0.010	<-0.036
05/16/14	1	--	VIEW-32, VIEW-33, VIEW-34, VIEW-35, VIEW-36, VIEW-37, HW-1, HW-3, HW-5, HW-7	1.1	--	<3.0	<11	<-0.0050	<-0.016	<-0.0050	<-0.019	<-0.0050	<-0.022	<-0.0050	<-0.022	<-0.0050	<-0.022	<-0.010	<-0.043	<-0.015	<-0.065	<-0.010	<-0.036
07/09/14	2	--	VIEW-32, VIEW-33, VIEW-34, VIEW-35, VIEW-36, VIEW-37, HW-1, HW-3, HW-5, HW-7	24	6.1	25	7.0	<-0.0050	<-0.016	<-0.0050	<-0.019	<-0.0050	<-0.022	<-0.0050	<-0.022	<-0.0050	<-0.022	<-0.010	<-0.043	<-0.015	<-0.065	<-0.010	<-0.036
08/13/14		--	VIEW-32, VIEW-33, VIEW-34, VIEW-35, VIEW-36, VIEW-37, HW-1, HW-3, HW-5, HW-7	27	7.3	30	8.4	<-0.0050	<-0.016	<-0.0050	<-0.019	<-0.0050	<-0.022	<-0.0050	<-0.022	<-0.0050	<-0.022	<-0.010	<-0.043	<-0.015	<-0.065	<-0.010	<-0.036

TABLE 7
Historical Summary of Analytical Vapor Sampling Results - Influent Carbon VES
 DFSP, Norwalk

15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	Vapor Extraction System 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)	(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)	(ppmv)	(µg/L)	(ppmv)
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	<0.16	<0.50	<0.1	<0.50	<0.1	<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	<0.16	<0.50	<0.1	<0.50	<0.1	<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	<0.16	<0.50	<0.1	<0.50	<0.1	<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	<0.16	<0.50	<0.1	<0.50	<0.1	<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	<0.16	<0.50	<0.1	<0.50	<0.1	<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	<0.16	<0.50	<0.1	<0.50	<0.1	<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	<0.16	<0.50	<0.1	<0.50	<0.1	<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	0.63	2.0	<0.1	<0.50	<0.1	<0.50	<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	<0.16	<0.50	<0.1	<0.50	<0.1	<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	<0.16	<0.50	<0.1	<0.50	<0.1	<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	<0.16	<0.50	0.15	0.58	<0.12	<0.50	0.67	2.9	0.71	3.1	1.38	6.0	0.71	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	<0.16	<0.50	0.53	2.0	0.18	0.78	0.99	4.3	1.5	6.3	2.49	10.6	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	<0.16	<0.50	0.25	0.94	<0.12	<0.50	0.71	3.1	0.62	2.7	1.33	5.8	0.62	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	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	0.32	1.4	0.25	1.1	0.57	2.5	0.25	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	0.75	2.4	<0.13	<0.50	<0.12	<0.50	<0.12	<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	0.30	0.95	0.74	2.8	0.76	3.3	0.69	3.0	2.5	11	3.19	14	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	0.27	0.85	0.37	1.4	<0.12	<0.50	0.71	3.1	0.58	2.5	1.29	5.6	0.58	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	0.41	1.3	0.64	2.4	0.17	0.75	0.74	3.2	0.85	3.7	1.59	6.9	0.85	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	0.69	2.2	0.82	3.1	0.22	0.97	0.41	1.8	1.1	4.6	1.51	6.4	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	0.88	2.8	1.6	5.9	0.25	1.1	1.4	6.2	2.1	9.0	3.5	15	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	0.69	2.2	1.9	7.0	0.15	0.64	0.76	3.3	0.94	4.1	1.7	7.4	0.94	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	0.16	0.52	0.29	1.1	<0.12	<0.50	0.22	0.95	0.30	1.3	0.52	2.3	0.30	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	0.59	1.9	0.66	2.5	0.23	1.0	0.39	1.7	0.6	2.6	0.99	4.3	0.6	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	<0.16	<0.50	0.25	0.93	<0.12	<0.50	0.14	0.62	<0.23	<1.0	0.14	0.62	<0.23	<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	0.38	1.2	0.29	1.1	<0.12	<0.50	0.17	0.72	<0.23	<1.0	0.17	0.72	<0.23	<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	0.31	1.0	0.20	0.77	<0.12	<0.50	<0.12	<0.50	<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	0.59	1.9	0.50	1.9	<0.12	<0.50	0.41	1.8	0.51	2.2	0.92	4.0	0.51	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	0.41	1.3	<0.13	<0.50	<0.12	<0.50	<0.12	<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	0.41	1.3	<0.13	<0.50	<0.12	<0.50	<0.12	<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	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<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	0.53	1.7	0.23	0.86	<0.12	<0.50	<0.12	<0.50	<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	0.31	1.0	<0.13	<0.50	<0.12	<0.50	<0.12	<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	0.63	2.0	0.24	0.89	<0.12	<0.50	<0.12	<0.50	<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	0.44	1.4	0.19	0.72	<0.12	<0.50	<0.12	<0.50	<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	0.53	1.7	0.24	0.9	<0.12	<0.50	<0.12	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0

TABLE 7
Historical Summary of Analytical Vapor Sampling Results - Influent Carbon VES

DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	Vapor Extraction System Wells On Line	Laboratory Analysis Methods	GRO Field OVA Reading (ppmv)		GRO (ppmv)		GRO as Hexane (µg/L)		Benzene (ppmv)		Toluene (ppmv)		Ethylbenzene (ppmv)		o-Xylene (ppmv)		m,p-Xylenes (ppmv)		Total Xylenes (ppmv)		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)	(ppmv)	(µg/L)
03/27/17	15, 16	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	193	600	170	600	0.91	2.9	0.42	1.6	<0.12	<0.50	<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	610	170	610	1.1	3.5	0.53	2.0	<0.12	<0.50	<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	510	140	510	0.69	2.2	0.58	2.2	0.12	0.51	<0.12	<0.50	<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	430	120	430	0.81	2.6	0.40	1.5	<0.12	<0.50	<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	--	560	160	560	0.38	1.2	0.20	0.75	<0.12	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
07/19/17		HW-5, HW-7 and VEW-39	8015M & 8260M	199	500	140	500	0.75	2.4	0.45	1.7	<0.12	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
08/09/17	18, 19	HW-1, HW-5, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	8015M & 8260M	695	2,300	650	2,300	0.69	2.2	0.29	1.1	0.53	2.3	<0.12	<0.50	<0.12	<0.50	0.44	1.9	0.44	1.9	<0.55	<2.0
09/07/17	19	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	8015M & 8260M	767	2,500	710	2,500	1.2	3.9	0.48	1.8	0.46	2.0	<0.12	<0.50	<0.12	<0.50	0.51	2.2	0.51	2.2	<0.55	<2.0
10/12/17	19, 20	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	8015M & 8260M	536	1,500	430	1,500	1.0	3.2	0.32	1.2	0.41	1.8	<0.12	<0.50	<0.12	<0.50	0.83	3.6	0.83	3.6	<0.55	<2.0
11/02/17	19	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	8015M & 8260M	300	970	270	970	0.78	2.5	0.24	0.89	0.28	1.2	<0.12	<0.50	<0.12	<0.50	0.51	2.2	0.51	2.2	<0.55	<2.0
12/11/17	19	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	8015M & 8260M	335	1,100	300	1,100	0.85	2.7	0.27	1.0	0.21	0.9	<0.12	<0.50	<0.12	<0.50	0.37	1.6	0.37	1.6	<0.55	<2.0
01/11/18	21	HW-1, HW-5, HW-7	8015M & 8260M	269	970	270	970	1.1	3.4	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
02/12/18		HW-1, HW-5, HW-7	8015M & 8260M	148	350	88	350	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
03/28/18		HW-1, HW-5, HW-7	8015M & 8260M	201	670	170	670	0.59	1.9	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
04/02/18		HW-1, HW-5, HW-7	8015M & 8260M	191	620	160	620	0.25	0.79	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
05/02/18		HW-1, HW-5, HW-7	8015M & 8260M	149	470	150	470	0.16	0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
06/06/18		HW-1, HW-5, HW-7	8015M & 8260M	95	200	50	200	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
07/02/18		HW-1, HW-5, HW-7	8015M & 8260M	135	490	120	490	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
08/06/18		HW-1, HW-5, HW-7	8015M & 8260M	134	200	48	200	0.3	0.95	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
09/13/18		HW-1, HW-5, HW-7	8015M & 8260M	109	200	50	200	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<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 = Vapor extraction system
- ppmv = Parts per million by volume
- µg/L = Micrograms per liter
- 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 9A for details).
- 4 = VES manually shut down.
- 5 = VES restarted on 11/03/14.
- 6 = Select soil biopiles also on line.
- 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 9A for details).
- 11 = Closed vapor extraction well VEW-34 on 08/19/15 based on low to non-detectable lab results (see Table 10 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 9A 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 system during late June 2017 following installation per SGI's March 14, 2017 *Well Replacement Report and Work Plan*.
- 18 = Wells RW-1, RW-2, RW-7, RW-9, RW-12, RW-13, RW-18, RW-20 through RW-24, RW-26, and RW-28 through RW-33 tied into system during early August 2017 following installation per SGI's June 30, 2017 *Remediation Well Installation Update Report*.
- 19 = For full list of wells online, see SGI's November 15, 2017 *Remediation Status Report - Third Quarter 2017* and February 15, 2018 *Remediation Status Report - Fourth Quarter 2017*, respectively.
- 20 = Opened dilution valve approximately 10% to reduce carbon usage rate.
- 21 = Closed dilution valve and focused extraction efforts on relatively low concentration horizontal wells to reduce carbon usage with all other higher concentration vertical wells being connected to the recently installed thermal oxidizer (see Table 8 for details).

OVA = Organic Vapor Analyzer (calibrated or correlated to Hexane)
 <0.1 = Not detected at or above the Method Reporting Limit (MRL) shown

MTBE = Methyl tertiary-butyl ether
 -- = Not available or not analyzed

TABLE 8
Historical Summary of Analytical Vapor Sampling Results - Influent Thermal Oxidizer VES
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	VES Wells On Line	Laboratory Analysis Methods	GRO Field OVA Reading (ppmv)	GRO		GRO as Hexane		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		Total Xylenes		MTBE	
					(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)
01/11/18	1,2,3	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, RW-9, RW-13, RW-18 and RW-26	8015M & 8260M	1,942	370	1500	380	1,500	<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
03/14/18	2,4,5,6	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	8015M & 8260M	2,193	370	1500	380	1,500	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
04/02/18	2	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	8015M & 8260M	1,370	1,700	7,100	1,800	7,100	4.1	13	<0.13	<0.50	0.28	1.2	<0.12	<0.50	0.76	3.3	<0.35	<1.5	<0.55	<2.0
05/02/18	2	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	8015M & 8260M	1,380	780	3,200	820	3,200	3.0	9.6	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	0.28	1.2	<0.35	<1.5	<0.55	<2.0
06/06/18	2,6,7	HW-1, HW-5, HW-7, VEW-39, RW-1, -4, -9, -10, -11, -13, -14 and -18	8015M & 8260M	1,531	1,000	4,100	990	4,100	4.1	13	<0.13	<0.50	0.17	0.72	<0.12	<0.50	0.53	2.3	<0.35	<1.5	<0.55	<2.0
07/02/18	2,6	RW-1, -4, -5, -9, -10, -11, -13, -18, -22, -29, -23, -24, -26, -27, -28, -30, -31, -32, -33, -36, -37, -40, -41, -42, -43, -44, -45, -47, -48, -49, -50, VEW-40	8015M & 8260M	890	560	2,300	560	2,300	2.2	7.1	<0.27	<1.0	<0.23	<1.0	<0.23	<1.0	0.55	2.4	<0.35	<1.5	<1.1	<4.0
08/06/18	2,6	RW-1, -4, -5, -9, -10, -11, -13, -18, -22, -29, -23, -24, -26, -27, -28, -30, -31, -32, -33, -36, -37, -40, -41, -42, -43, -44, -45, -47, -48, -49, -50, VEW-40	8015M & 8260M	876	710	2,900	710	2,900	0.88	2.8	0.58	2.2	0.23	1.0	0.25	1.1	0.92	4.0	<0.35	<1.5	<0.55	<2.0
09/13/18	2,6	RW-1, -4, -5, -9, -10, -11, -13, -18, -22, -29, -23, -24, -26, -27, -28, -30, -31, -32, -33, -36, -37, -40, -41, -42, -43, -44, -45, -47, -48, -49, -50, VEW-40	8015M & 8260M	935	930	3,800	930	3,800	1.9	6.0	0.34	1.3	0.41	1.8	0.18	0.77	0.94	4.1	<0.35	<1.5	<0.28	<1.0

Legend/ Notes:

- VES = 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 started on 01/08/18.
- 2 = VES operations limited to daytime hours due to noise concerns from nearby residents.
- 3 = Noise abatement measures implemented in an effort to address concerns from nearby residents.
- 4 = Vapor extraction wells RW-6, RW-8, RW-11, RW-12, and RW-14 through RW-17 brought online 02/14/18 following the completion of installation and tie-in activities per SGI's June 30, 2017 Remediation Well Installation Update Report.
- 5 = No sample collected for analysis during February 2018 due to site condition and system operation status.
- 6 = Measured individual well concentrations and opened and/or closed select vapor extraction wells (see Table 9A through 9D for details).
- 7 = Vapor extraction wells RW-19, RW-20, RW-22, RW-24, RW-27 through RW-30, RW-32, RW-33, RW-35 through RW-38, and RW-40 through RW-50 brought online 6/27/18 following the completion of tie-in activities per SGI's June 30, 2017 report.

TABLE 9A
Historical Summary of Field Vapor Readings - Former AST Area Horizontal Wells and Select Vertical Wells
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Depth for Horizontal Wells or Interval in Feet Below Grade for Vertical Wells												
			HW-1	HW-3 **	HW-5	HW-7 **	VEW-32	VEW-33	VEW-34	VEW-35	VEW-36	VEW-37	VEW-38	VEW-39	VEW-40
07/09/14	1	VEW-32, VEW-33, VEW-34, VEW-35, VEW-36, VEW-37, HW-1, HW-3, HW-5, HW-7	25	20	140	4,176	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	21	4,000	15,000	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	0	2.5	146.0	174	0.2	0	--	--	--	--	--	
10/23/14	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	3.3	20.0	2.9	2	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	2	62	382.0	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	34	270	370	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	160	835	800	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	315	600	580	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	297	545	585	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	125	533	1,233	--	--	--	--	--	--	--	--	
04/27/15	4.6	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	1,455	138	400	810	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	28	676	732	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	--	1,283	1,526	530	329	--	--	--	--	--	--	
09/08/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	1,914	--	839	1,811	395	162	--	--	--	--	--	--	
09/16/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	1,333	--	756	1,142	266	184	--	--	--	--	--	--	
10/09/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	854	--	462	807	343	258	--	--	--	--	--	--	
11/04/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	605	--	372	500	401	184	--	--	--	--	--	--	
12/07/15	4.6	VEW-32, VEW-33, HW-1, HW-3, HW-5	880	--	590	760	327	246	88	22	12	14	--	--	

TABLE 9A
Historical Summary of Field Vapor Readings - Former AST Area Horizontal Wells and Select Vertical Wells

DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Depth for Horizontal Wells or Interval in Feet Below Grade for Vertical Wells													
			HW-1	HW-3 **	HW-5	HW-7 **	VEW-32	VEW-33	VEW-34	VEW-35	VEW-36	VEW-37	VEW-38	VEW-39	VEW-40	
01/13/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	25	25	25	25	10 - 25	10 - 25	10 - 25	10 - 25	10 - 25	10 - 25	10 - 25	10 - 25	20 - 30	20 - 30
02/08/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	520	--	300	240	160	220	160	220	260	220	260	220	--	--
03/02/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	400	--	360	180	120	120	120	240	240	47	31	32	15	--
04/06/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	420	--	260	220	60	60	60	380	380	29	22	18	12	--
05/04/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	400	--	240	180	90	90	90	340	340	36	18	25	19	--
06/17/16	6	HW-1, HW-3, HW-5	740	--	470	330	--	--	--	--	--	--	--	--	--	--
07/06/16	6,10	HW-1, HW-3, HW-5	480	--	340	220	--	--	--	--	--	--	--	--	--	--
08/05/16	6	HW-1, HW-3, HW-5	240	4	190	230.0	20	20	20	140	140	11	9.0	34	8.3	--
09/01/16	6,10	HW-1, HW-3, HW-5	280	--	220	260	--	--	--	--	--	--	--	--	--	--
10/20/16	4,6,10,11	HW-1, HW-3, HW-5, HW-7	200	140	240	280	32	32	32	80	80	9.1	7.3	30	6.4	--
11/01/16	6,10	HW-1, HW-3, HW-5, HW-7	160	120	180	260	--	--	--	--	--	--	--	--	--	--
12/05/16	4,6,10	HW-1, HW-3, HW-5, HW-7	120	100	200	240	20	20	20	60	60	17	8.8	20	7.1	--
01/09/17	6,10	HW-1, HW-3, HW-5, HW-7	80	17	180	200	--	--	--	--	--	--	--	--	--	--
02/06/17	4,6,10	HW-1, HW-3, HW-5, HW-7	100	13	160	180	12	12	12	45	45	11	6.1	14	5.4	--
03/20/17	12	HW-1, HW-3, HW-5, HW-7	110	12	120	160	--	--	--	--	--	--	--	--	--	--
04/17/17		HW-1, HW-3, HW-5, HW-7	120	10	160	220	--	--	--	--	--	--	--	--	--	--
05/03/17		HW-1, HW-3, HW-5, HW-7	100	19	140	260	15	15	15	33	33	17	8.1	19	6.7	--
06/05/17		HW-1, HW-3, HW-5	107	15	82	211	10	10	10	14	14	8.0	7.1	12	11	--
07/19/17	13	HW-5, HW-7 and VEW-39	--	49	79	286	12	12	12	47	47	9.3	4.1	6.2	4.8	1,680
08/09/17	14,15	HW-1, HW-5, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	192	--	94	236	5.5	5.5	5.5	27	27	7.7	2.3	3.7	5.4	940
09/07/17	14,15	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	180	--	60	220	9.2	9.2	9.2	20	20	11	5.5	14	10	190
10/12/17	14,15	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	220	--	80	260	13	13	13	28	28	14	9.3	19	12	330
11/02/17	14,15	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	346	--	105	334	10	10	10	23	23	11	6.6	15	9.1	620
12/11/17	14,15	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	280	--	90	220	7.7	7.7	7.7	20	20	9.3	5.1	8.8	9.1	480
01/11/18	15,16	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, RW-9, RW-13, RW-18 and RW-26	160	--	120	340	--	--	--	--	--	--	--	--	--	--
02/12/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1 through RW-18, and RW-26	60	--	75	290	--	--	--	--	--	--	--	--	--	--

TABLE 9A
Historical Summary of Field Vapor Readings - Former AST Area Horizontal Wells and Select Vertical Wells
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Depth for Horizontal Wells or Interval in Feet Below Grade for Vertical Wells												
			HW-1	HW-3 **	HW-5	HW-7 **	VEW-32	VEW-33	VEW-34	VEW-35	VEW-36	VEW-37	VEW-38	VEW-39	VEW-40
03/14/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	25	25	25	25	10 - 25	10 - 25	10 - 25	10 - 25	10 - 25	10 - 25	10 - 25	20 - 30	20 - 30
03/28/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	200	--	--	240	7.2	2.4	8.1	7.3	0.4	4.3	420	54	4,200
04/02/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	180	--	160	220	--	--	--	--	--	--	--	--	--
05/02/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	140	--	140	200	--	--	--	--	--	--	--	--	--
06/06/18	15	HW-1, HW-5, HW-7, VEW-39, RW-1, -4, -9, -10, -11, -13, -14 and -18	100	--	80	160	--	--	--	--	--	--	--	--	--
06/27/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through -50	--	--	--	--	--	--	--	--	--	--	51	185	5,100
07/16/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through -51	--	--	--	--	--	--	--	--	--	--	--	--	--
07/30/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through -52	--	--	--	--	--	--	--	--	--	--	--	--	>15,000
08/29/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through -53	--	--	--	--	--	--	--	--	--	--	--	--	>15,000

Legend/Notes:

- GRO = Gasoline range organics ppmv = Parts per million by volume OVA = Organic Vapor Analyzer -- = Not measured VES = Vapor extraction system
 Concentrations measured using calibrated field OVA.
 1 = Initial readings on carbon VES 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.
 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 carbon VES in accordance with recent field OVA readings and/or lab data.
 13 = Wells VEW-38, VEW-39 and VEW-40 tied into carbon VES during late June 2017 following installation per SGI's March 14, 2017 Well Replacement Report and Work Plan.
 14 = For full list of wells online, see SGI's November 15, 2017 Remediation Status Report - Third Quarter 2017 and February 15, 2018 Remediation Status Report - Fourth Quarter 2017, respectively.
 15 = See Tables 9B, 9C and 9D for applicable RW on line well field vapor readings.
 16 = Wells VEW-38, VEW-39 and VEW-40 disconnected from carbon VES and tied into thermal oxidizer VES upon 01/08/18 startup (see SGI's May 15, 2018 Remediation Status Report - First Quarter 2018 for details).
 * = Carbon VES only through 2017 and also includes thermal oxidizer VES wells online after 2017.
 ** = Tabulated data corrected after determining well HW-3 was incorrectly labeled as well HW-7 and vice versa during late July 2017 re-development work.

TABLE 9B
Historical Summary of Field Vapor Readings - Northeastern Area Vertical Wells
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Interval in Feet Below Grade																	
			RW-1 15 - 35	RW-2 13 - 33	RW-3 17 - 37	RW-4 14 - 34	RW-5 14 - 34	RW-6 17 - 37	RW-7 17 - 37	RW-8 18.5 - 38.5	RW-9 15 - 35	RW-10 14 - 34	RW-11 16 - 36	RW-12 14 - 34	RW-13 15 - 35	RW-14 14 - 34	RW-15 18 - 38	RW-16 14 - 34	RW-17 19 - 39	RW-18 18 - 38
08/09/17	1,2,3	HW-1, HW-5, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	1,268	16	--	--	--	120	--	1,164	--	--	76	2,440	--	--	--	--	374	
09/07/17	2,3	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	3,860	99	--	--	--	495	--	320	--	--	90	2,870	--	--	--	--	679	
10/12/17	2,3	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	2,480	75	--	--	--	310	--	660	--	--	120	2,620	--	--	--	--	580	
11/02/17	2,2	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	3,140	50	--	--	--	225	--	840	--	--	140	3,200	--	--	--	--	430	
12/11/17	2,3	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	2,250	60	--	--	--	180	--	590	--	--	80	3,040	--	--	--	--	350	
03/14/18	4,5	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	2,520	31	68	598	4,600	15	181	5.1	2,824	>10,000	420	5.5	2,000	1,235	40	28	937	
07/16/18	4,5	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	725	--	--	2,959	13,792	--	--	--	5,677	>15,000	671	--	5,538	36	--	--	932	
07/30/18	4,5	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	928	401	--	3,292	>15,000	--	--	--	>15,000	>15,000	576	--	>15,000	--	--	--	1,110	

Legend / Notes:

- GRO = Gasoline range organics
- ppmv = Parts per million by volume
- OVA = Organic Vapor Analyzer
- VES = Vapor extraction system
- Concentrations measured using calibrated field OVA.
- 1 = Wells RW-1, RW-2, RW-7, RW-9, RW-12, RW-13 and RW-18 initially tied into carbon VES during early August 2017 following installation per SGI's June 30, 2017 Remediation Well Installation Update Report.
- 2 = For full list of wells on line, see SGI's November 15, 2017 Remediation Status Report - Third Quarter 2017 and February 15, 2018 Remediation Status Report - Fourth Quarter 2017, respectively.
- 3 = See Tables 9A, 9C and 9D for applicable HW, VEW and RW on line well field vapor readings.
- 4 = Wells RW-1, RW-2, RW-7, RW-9, RW-12, RW-13 and RW-18 disconnected from carbon VES and tied into thermal oxidizer VES upon 01/08/18 startup.
- 5 = Wells RW-3 through RW-6, RW-8, RW-10, RW-11, and RW-14 through RW-17 tied into thermal oxidizer VES during mid-February 2018 following installation per SGI's June 30, 2017 Remediation Well Installation Update Report.
- * = Carbon VES only through 2017 and also includes thermal oxidizer VES wells online after 2017.
- = Readings not taken.

TABLE 9C
Historical Summary of Field Vapor Readings - Southern Area Vertical Wells
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Notes	Well GRO Concentration (ppmv) / Screen Interval in Feet Below Grade															
		RW-19	RW-20	RW-21	RW-22	RW-23	RW-24	RW-25	RW-26	RW-27	RW-28	RW-29	RW-30				
08/09/17	1,2	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33
		--	129	160	1,775	787	1,525	--	4,340	--	8,420	620	6,550				
09/07/17	2	--	58	110	1,379	141	1,423	--	3,290	--	8,080	1,123	8,240				
10/12/17	2	--	220	165	1,800	340	1,200	--	3,880	--	9,190	818	5,800				
11/02/17	2	--	170	140	1,410	250	1,770	--	2,900	--	6,400	909	7,330				
12/11/17	2	--	190	120	1,660	230	1,605	--	3,400	--	7,170	764	6,400				
03/14/18		--	280	80	840	320	950	--	1,800	--	3,100	660	2,900				
06/27/18	3	43	42	55	2,595	1,896	459	89	1,821	1,215	5,000	2,563	32				
07/16/18	3	--	--	--	--	--	--	--	--	--	--	--	--				
07/30/18	3	--	--	--	2,928	--	1,383	--	3,261	767	>15,000	1,341	3,968				
08/29/18	3	--	--	--	2,558	--	1,320	--	3,182	699	>15,000	1,721	4,480				
Date	Notes	Well GRO Concentration (ppmv) / Screen Interval in Feet Below Grade															
08/09/17	1,2,3	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33
		7,165	820	1,230	--	--	--	--	--	--	--	--	--	--	--	--	--
09/07/17	2,3	3,400	715	836	--	--	--	--	--	--	--	--	--	--	--	--	--
10/12/17	2,3	5,200	955	900	--	--	--	--	--	--	--	--	--	--	--	--	--
11/02/17	2,3	4,300	1,060	620	--	--	--	--	--	--	--	--	--	--	--	--	--
12/11/17	2,3	3,900	700	510	--	--	--	--	--	--	--	--	--	--	--	--	--
03/14/18	2,3,4	1,730	800	180	--	--	--	--	--	--	--	--	--	--	--	--	--
06/27/18	3,5	80	421	843	46	24	1,782	849	3,040	886	728	56	191				
07/16/18	3,5	--	--	--	--	--	--	--	--	--	--	--	--				
07/30/18	3,5	--	1,253	1,283	--	--	778	4,925	>15,000	672	1,008	692	--				
08/29/18	3,5	--	1,715	1,324	--	--	856	>15,000	>15,000	641	2,359	674	--				

Legend / Notes:

TABLE 9C
Historical Summary of Field Vapor Readings - Southern Area Vertical Wells
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Notes	Well GRO Concentration (ppmv) / Screen Interval in Feet Below Grade												
		RW-19	RW-20	RW-21	RW-22	RW-23	RW-24	RW-25	RW-26	RW-27	RW-28	RW-29	RW-30	
		13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33

GRO = Gasoline range organics ppmv = Parts per million by volume OVA = Organic Vapor Analyzer -- = Not applicable since well not installed and/or tied into system VES = Vapor extraction system

Concentrations measured using calibrated field OVA.

- 1 = Wells RW-20 through RW-24, RW-26, and RW-28 through RW-33 initially tied into carbon VES during early August 2017 following installation per SGI's June 30, 2017 Remediation Well Installation Update Report.
- 2 = For full list of wells on line, see SGI's November 15, 2017 Remediation Status Report - Third Quarter 2017 and February 15, 2018 Remediation Status Report - Fourth Quarter 2017, respectively.
- 3 = See Tables 9A, 9B and 9D for applicable HW, VEW and RW on line well field vapor readings.
- 4 = Wells RW-20 through RW-24, RW-26, and RW-28 through RW-33 disconnected from carbon VES and tied into thermal oxidizer VES upon 01/08/18 startup (see SGI's May 15, 2018 Remediation Status Report - First Quarter 2018 for details).
- 5 = Wells RW-19, RW-25, RW-27, RW-34, and RW-39 through RW-46 tied into thermal oxidizer VES during late June 2018 following installation per SGI's July 2018 Well Installation Completion Report.

* = Carbon VES only through 2017 and also includes thermal oxidizer VES wells online after 2017.

TABLE 9D
Historical Summary of Field Vapor Readings - North-Central Area Vertical Wells
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Interval in Feet Below Grade										
			RW-35	RW-36	RW-37	RW-38	RW-47	RW-48	RW-49	RW-50			
06/27/18	1,2	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through -50	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33
7/16/2018	1,2	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through -51	--	452	--	134	751	--	--	1,454	823	--	5,000
7/30/2018	1,2	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through -52	522.3	2166	1930	--	1410	--	--	>15,000	2951	--	4937
08/30/18	1,2	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through -53	658	2,616	2,049	--	2,766	--	--	>15,000	4,918	--	7,013

Legend / Notes:

GRO = Gasoline range organics ppmv = Parts per million by volume OVA = Organic Vapor Analyzer VES = Vapor extraction system
 Concentrations measured using calibrated field OVA.
 1 = Wells RW-35 through RW-38, and RW47 through RW-50 tied into thermal oxidizer VES during late June 2018 following installation per SGI's July 2018 *Well Installation Completion Report*.
 2 = See Tables 9A, 9B and 9C for applicable HW, VEW and RW on line well field vapor readings.
 * = Carbon vapor extraction system and thermal oxidizer vapor extraction system.

TABLE 10
Historical Summary of Analytical Vapor Sampling Results - Individual Wells
 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	<0.2	<1.0	<0.6	<2.0
	04/27/15			1,455	830	3,400	1.1	3.5	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<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
	11/02/17			346	240	1,000	0.59	1.9	<0.13	<0.50	0.15	0.66	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	02/12/18			60	27	110	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	03/28/18			167	180	730	0.34	1.1	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
08/06/18	110		450	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0			
HW-3 *	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	0.9	<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	
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	
	11/02/17		105	39	160	0.21	0.7	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	02/12/18		75	90	370	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
03/28/18	91		140	560	0.63	2.0	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
08/06/18	100		410	0.50	1.6	<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	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		2.0	<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		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	1.3	2.3	10	<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	0.52	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	
	11/02/17		334	210	860	2.3	7.4	1.2	4.4	0.18	0.78	0.16	0.68	0.51	2.2	<0.55	<2.0	
	02/12/18		290	230	960	1.3	4.0	0.48	1.8	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	03/28/18		270	190	760	0.59	1.9	0.21	0.79	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	08/06/18	210	840	1.30	4.2	0.80	3.00	0.12	0.53	0	1	0	2	<0.55	<2.0			
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		

TABLE 10
Historical Summary of Analytical Vapor Sampling Results - Individual Wells
 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-32	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	6.6	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
VEW-35	07/09/14	1		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		8015M & 8260M	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
	07/27/17			--	490	2,000	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	09/07/17			480	440	1,800	<0.16	<0.50	<0.13	<0.50	0.17	0.74	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
VEW-39	06/27/17	3		51	8.3	34	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	07/27/17			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
	09/07/17			--	1,100	4,300	0.41	1.3	<0.13	<0.50	0.78	3.4	<0.12	<0.50	0.62	2.7	<0.55	<2.0
VEW-40	06/27/17	3		190	29	120	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	07/27/17			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
	09/07/17			--	8,800	36,000	1.4	4.4	<0.13	<0.50	8.5	37	0.23	1.0	5.3	23	<0.55	<2.0
	06/27/18	4		9,200	7,600	31,000	0.97	3.1	<0.13	<0.50	3.7	16	0.25	1.1	2.2	9.0	<0.55	<2.0
				5,100	2,900	12,000	<0.78	<2.5	<0.78	<2.5	0.78	3.4	<0.58	<2.5	<1.2	<5.0	<2.8	<10

TABLE 10
Historical Summary of Analytical Vapor Sampling Results - Individual Wells
 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)
RW-1	08/09/17	5	8015M & 8260M	1,268	1,100	4,400	1.7	5.4	3.7	14	0.85	3.7	0.55	2.4	2.5	11	<0.55	<2.0
	09/07/17			3,860	2,300	9,600	6.3	20	16	60	2.8	12	2.0	8.9	7.4	32	<0.55	<2.0
RW-2	08/09/17	5		16	39	160	0.19	0.61	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	03/14/18			31	22	92	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-3	03/14/18	6		68	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
RW-4	03/14/18	6		598	460	1,900	1.8	5.9	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-5	03/14/18	6		4,600	2,900	12,000	1.7	5.5	<0.13	<0.50	0.78	3.4	0.18	0.76	2.5	11	<0.55	<2.0
RW-7	08/09/17	5		120	320	1,300	<0.16	<0.50	0.14	0.53	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	03/14/18			54	64	260	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-9	08/09/17	5		1,164	1,100	4,500	0.44	1.4	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	09/07/17			320	240	1,000	0.75	2.4	<0.13	<0.50	0.19	0.83	<0.12	<0.50	0.41	1.8	<0.55	<2.0
	03/14/18			2,824	2,000	8,100	18	59	<0.13	<0.50	5.1	22	3.0	13	9.4	41	<0.55	<2.0
RW-10	03/14/18	6		>10,000	14,000	58,000	14	45	<0.13	<0.50	0.69	3.0	0.53	2.3	5.8	25	<0.55	<2.0
RW-11	03/14/18	6		420	230	950	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-12	08/09/17	5		76	100	420	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	03/14/18			5.5	<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
RW-13	08/09/17	5		2,440	1,800	7,400	1.6	5.0	<0.13	<0.50	0.22	0.95	0.28	1.2	1.7	7.4	<0.55	<2.0
	09/07/17			2,870	1,800	7,400	5.9	19.0	<0.13	<0.50	1.8	7.9	1.5	6.4	6.4	28	<0.55	<2.0
	03/14/18			2,000	7,300	30,000	9.1	29	<0.13	<0.50	0.64	2.8	0.46	2.0	1.8	7.6	<0.55	<2.0
RW-14	03/14/18	6		1,235	950	3,900	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-18	08/09/17	5		374	170	700	1.3	4.2	<0.13	<0.50	0.32	1.4	0.28	1.2	1.2	5.3	<0.55	<2.0
	09/07/17			679	320	1,300	2.2	7.1	0.7	3	0.62	2.7	0.53	2.3	2.2	9.6	<0.55	<2.0
	03/14/18			937	490	2,000	1.4	4.4	<0.13	<0.50	<0.12	<0.50	0.25	1.1	0.76	3.3	<0.55	<2.0
RW-19	06/27/18	4		43	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
RW-20	08/16/17	5		129	73	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
	09/07/17			58	61	250	<0.16	<0.50	<0.13	<0.50	0.16	0.69	<0.12	<0.50	0.32	1.4	<0.55	<2.0
	06/27/18			42	<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
RW-21	08/09/17	5		160	95	390	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/18		4	55	<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
RW-22	08/16/17	5	1,775	1,600	6,700	0.38	1.2	<0.13	<0.50	3.2	14	0.20	0.88	4.6	20	<0.55	<2.0	
	09/07/17		1,379	1,200	5,000	0.44	1.4	<0.13	<0.50	2.2	9.5	0.48	2.1	3.2	14	<0.55	<2.0	
	06/27/18		4	2,595	1,200	4,800	<0.78	<2.5	<0.66	<2.5	<0.58	<2.5	<0.58	<2.5	<1.2	<5.0	<2.8	<10
RW-23	08/09/17	5	787	660	2,700	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	09/07/17		141	83	340	<0.16	<0.50	<0.13	<0.50	0.25	1.1	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
RW-24	08/16/17	5	1,525	1,400	5,900	<0.16	<0.50	<0.13	<0.50	0.19	0.82	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	09/07/17		1,423	930	3,800	<0.16	<0.50	<0.13	<0.50	0.37	1.6	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	06/27/18		4	459	98	400	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-25	06/27/18	4	89	<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	
RW-26	08/09/17	5	4,340	7,100	29,000	0.23	0.75	<0.13	<0.50	0.94	4.1	<0.12	<0.50	0.35	1.5	<0.55	<2.0	
	09/07/17		3,290	3,200	13,000	<0.16	<0.50	<0.13	<0.50	0.88	3.8	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	06/27/18		4	1,821	710	2,900	<0.78	<2.5	<0.66	<2.5	<0.58	<2.5	<0.58	<2.5	<1.2	<5.0	<2.8	<10

TABLE 10
Historical Summary of Analytical Vapor Sampling Results - Individual Wells
 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)
RW-27	06/27/18	4	8015M & 8260M	1,215	420	1,700	<0.31	<1.0	<0.27	<1.0	<0.23	<1.0	<0.23	<1.0	<0.46	<2.0	<1.1	<4.0
RW-28	08/09/17	5		8,420	7,600	31,000	2.4	7.6	<0.13	<0.50	9.4	41	0.28	1.2	3.7	16	<0.55	<2.0
	09/07/17			8,080	7,300	30,000	1.7	5.5	<0.13	<0.50	8.1	35	0.25	1.1	3.0	13	<0.55	<2.0
	06/27/18	4		5,000	4,200	17,000	<0.78	<2.5	<0.66	<2.5	2.3	10	<0.58	<2.5	1.9	8.2	<2.8	<10
RW-29	08/09/17	5		620	640	2,600	0.16	0.52	<0.13	<0.50	0.17	0.75	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	09/07/17			1,123	930	3,800	0.17	0.54	<0.13	<0.50	0.13	0.56	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/18	4		2,563	780	3,200	<0.78	<2.5	<0.66	<2.5	<0.58	<2.5	<0.58	<2.5	<1.2	<5.0	<2.8	<10
RW-30	08/09/17	5		6,550	12,000	50,000	0.85	2.7	<0.13	<0.50	17	72	<0.12	<0.50	0.81	3.5	<0.55	<2.0
	09/07/17			8,240	3,200	13,000	<0.16	<0.50	<0.13	<0.50	6.9	30	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/18	4		32	13	54	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-31	08/09/17	5		7,165	6,800	28,000	1.2	3.9	0.20	0.76	3.2	14	1.6	7.1	3.7	16	<0.55	<2.0
	09/07/17			3,400	2,900	12,000	0.4	1.4	<0.13	<0.50	3.0	13	1.1	4.9	2.3	10	<0.55	<2.0
	06/27/18	4		80	12	51	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-32	08/16/17	5		820	880	3,600	<0.16	<0.50	<0.13	<0.50	0.78	3.4	<0.12	<0.50	0.28	1.2	<0.55	<2.0
	09/07/17			715	810	3,300	0.17	0.54	<0.13	<0.50	0.55	2.4	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/18	4		421	66	270	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-33	08/16/17	5		1,230	860	3,500	<0.16	<0.50	<0.13	<0.50	0.44	1.9	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	09/07/17			836	640	2,600	<0.16	<0.50	<0.13	<0.50	0.35	1.5	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/18	4		843	210	840	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-34	06/27/18	4		46	<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
RW-35	06/27/18	4		416	83	340	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-36	06/27/18	4		452	440	1,800	<0.78	<2.5	<0.66	<2.5	<0.58	<2.5	<0.58	<2.5	<1.2	<5.0	<2.8	<10
RW-37	06/27/18	4		1,509	210	850	<0.31	<1.0	<0.27	<1.0	<0.23	<1.0	<0.23	<1.0	<0.46	<2.0	<1.1	<4.0
RW-38	06/27/18	4		134	24	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
RW-39	06/27/18	4	24	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	
RW-40	06/27/18	4	1,782	2,900	12,000	<0.78	<2.5	<0.66	<2.5	0.78	3.4	<0.58	<2.5	<1.2	<5.0	<2.8	<10	
RW-41	06/27/18	4	849	1,300	5,300	<0.78	<2.5	<0.66	<2.5	<0.58	<2.5	<0.58	<2.5	<1.2	<5.0	<2.8	<10	
RW-42	06/27/18	4	3,040	1,500	6,200	<0.78	<2.5	<0.66	<2.5	<0.58	<2.5	<0.58	<2.5	<1.2	<5.0	<2.8	<10	
RW-43	06/27/18	4	886	230	950	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
RW-44	06/27/18	4	728	88	360	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	2.2	9.4	0.60	2.6	<0.55	<2.0	
RW-45	06/27/18	4	56	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	
RW-46	06/27/18	4	191	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	
RW-47	06/27/18	4	751	240	1,000	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
RW-48	06/27/18	4	1,454	540	2,200	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
RW-49	06/27/18	4	823	180	720	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
RW-50	06/27/18	4	5,000	1,600	6,500	<0.78	<2.5	<0.66	<2.5	1.2	5.0	<0.58	<2.5	<1.2	<5.0	<2.8	<10	
RTF-18-NW	10/05/17	7	9,000	16,000	67,000	100	330	0.18	0.66	12	52	13	56	60	260	<0.55	<2.0	
	10/09/17	7	3,635	18,000	72,000	170	550	<1.3	<5.0	17	75	19	83	92	400	<5.5	<20	

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.

TABLE 10
Historical Summary of Analytical Vapor Sampling Results - Individual Wells
 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)

-- = Not measured

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 = System tie in work to allow for vapor extraction completed during late June 2017 following installation per SGI's March 14, 2017 *Well Replacement Report and Work Plan*.

4 = System tie in work to allow for vapor extraction completed during late June 2018 following installation per SGI's July 2018 *Well Installation Completion Report*.

5 = System tie in work to allow for vapor extraction completed during early August 2017 following installation per SGI's June 30, 2017 *Remediation Well Installation Update Report*.

6 = System tie in work to allow for vapor extraction completed during mid-February 2018 following installation per SGI's June 30, 2017 *Remediation Well Installation Update Report*.

7 = Well temporarily utilized as an extraction point as part of vacuum enhanced LNAPL recovery testing per SGI's July 2018 *LNAPL Recovery Testing Report*.

* = Tabulated data corrected after determining well HW-3 was incorrectly labeled as well HW-7 and vice versa during late July 2017 re-development work.

APPENDIX A

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTS



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

July 18, 2018

Neil Irish

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

**Re : DFSP Norwalk GWETS NPDES Monthly / 04-NDLA-013
A5332669 / 8G02018**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 07/02/18 14:12 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: A5332669
Date Received: 07/02/18
Date Reported: 07/18/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
-----------	---------------	--------	-----	--------------	---------------

8260B TPHGASOLINEBTEXOXY

Effluent	8G02018-01	Water	5	07/02/18 08:05	07/02/18 14:12
----------	------------	-------	---	----------------	----------------

Arsenic Total EPA 200.7

Effluent	8G02018-01	Water	5	07/02/18 08:05	07/02/18 14:12
----------	------------	-------	---	----------------	----------------

Diesel Range Organics 8015M

Effluent	8G02018-01	Water	5	07/02/18 08:05	07/02/18 14:12
----------	------------	-------	---	----------------	----------------

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: A5332669
Date Received: 07/02/18
Date Reported: 07/18/18
Units: ug/L

Date Sampled:	07/02/18		
Date Prepared:	07/12/18		
Date Analyzed:	07/12/18		
AA ID No:	8G02018-01		
Client ID No:	Effluent		
Matrix:	Water		
Dilution Factor:	1	MDL	MRL

8260B TPHGASOLINEBTEXOXY (EPA 8260B)

tert-Butyl alcohol (TBA)	<7.0	7.0	10
Gasoline Range Organics (GRO)	<40	40	100
Methyl-tert-Butyl Ether (MTBE)	<0.40	0.40	2.0

Surrogates

		<u>%REC Limits</u>	
4-Bromofluorobenzene	108%	70-140	
Dibromofluoromethane	123%	70-140	
Toluene-d8	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: A5332669
Date Received: 07/02/18
Date Reported: 07/18/18
Units: ug/L

Date Sampled:	07/02/18		
Date Prepared:	07/05/18		
Date Analyzed:	07/05/18		
AA ID No:	8G02018-01		
Client ID No:	Effluent		
Matrix:	Water		
Dilution Factor:	1	MDL	MRL

Diesel Range Organics 8015M (EPA 8015M)

Diesel Range Organics as Diesel	<60	60	100
---------------------------------	-----	----	-----

Surrogates

o-Terphenyl	68%	<u>%REC Limits</u>
		50-150

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH) **AA Project No:** A5332669
Project No: 04-NDLA-013 **Date Received:** 07/02/18
Project Name: DFSP Norwalk GWETS NPDES Monthly **Date Reported:** 07/18/18
Method: Total Metals by ICP Atomic Emission Spectroscopy

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>									
8G02018-01	Effluent	07/02/18	07/05/18	07/06/18	1	0.015	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: A5332669
Date Received: 07/02/18
Date Reported: 07/18/18

Analyte	Reporting Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
---------	------------------	-----------------	-------	-------------	---------------	-----------	-------------	---------	-----------	-------

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

Batch B8G1213 - EPA 5030B

Blank (B8G1213-BLK1)

Prepared & Analyzed: 07/12/18

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	48000000		ug/L	50	NR	70-140
Surrogate: Dibromofluoromethane	57.2		ug/L	50	114	70-140
Surrogate: Toluene-d8	57.6		ug/L	50	115	70-140

LCS (B8G1213-BS1)

Prepared: 07/12/18 Analyzed: 07/13/18

tert-Amyl Methyl Ether (TAME)	27.4	0.30	ug/L	20	137	70-130	**
Benzene	21.6	0.20	ug/L	20	108	75-125	
tert-Butyl alcohol (TBA)	109	7.0	ug/L	100	109	70-130	
Diisopropyl ether (DIPE)	21.7	0.50	ug/L	20	108	70-130	
Ethylbenzene	19.1	0.20	ug/L	20	95.4	75-125	
Ethyl-tert-Butyl Ether (ETBE)	27.7	0.40	ug/L	20	139	70-130	**
Gasoline Range Organics (GRO)	574	40	ug/L	500	115	70-130	
Methyl-tert-Butyl Ether (MTBE)	50.9	0.40	ug/L	40	127	70-135	
Toluene	20.5	0.30	ug/L	20	102	75-125	
o-Xylene	16.3	0.30	ug/L	20	81.4	75-125	
m,p-Xylenes	34.2	0.40	ug/L	40	85.5	70-130	

Surrogate: 4-Bromofluorobenzene	56.5		ug/L	50	113	70-140
Surrogate: Dibromofluoromethane	52.1		ug/L	50	104	70-140
Surrogate: Toluene-d8	48.6		ug/L	50	97.1	70-140

Diesel Range Organics 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 GWETS NPDES Monthly

AA Project No: A5332669
Date Received: 07/02/18
Date Reported: 07/18/18

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
---------	------------------	-------	-------	-------------	---------------	-----------	--------	-----	-----------	-------

Diesel Range Organics by GC/FID - Quality Control

Batch B8G0501 - EPA 3510C

Blank (B8G0501-BLK1)

Prepared & Analyzed: 07/05/18

Diesel Range Organics as Diesel	<60	60	ug/L							
---------------------------------	-----	----	------	--	--	--	--	--	--	--

Surrogate: o-Terphenyl	24.3		ug/L	40	60.7	50-150				
------------------------	------	--	------	----	------	--------	--	--	--	--

LCS (B8G0501-BS1)

Prepared & Analyzed: 07/05/18

Diesel Range Organics as Diesel	609	60	ug/L	800	76.1	75-125		30		
---------------------------------	------------	----	------	-----	------	--------	--	----	--	--

Surrogate: o-Terphenyl	36.0		ug/L	40	90.1	50-150				
------------------------	------	--	------	----	------	--------	--	--	--	--

LCS Dup (B8G0501-BSD1)

Prepared & Analyzed: 07/05/18

Diesel Range Organics as Diesel	600	60	ug/L	800	75.1	75-125	1.39	30		
---------------------------------	------------	----	------	-----	------	--------	------	----	--	--

Surrogate: o-Terphenyl	22.9		ug/L	40	57.1	50-150				
------------------------	------	--	------	----	------	--------	--	--	--	--

Total Metals by ICP Atomic Emission Spectroscopy - Quality Control

Batch B8G0505 - EPA 200.7

Blank (B8G0505-BLK1)

Prepared: 07/05/18 Analyzed: 07/06/18

Arsenic	<0.0060	0.0060	mg/L							
---------	---------	--------	------	--	--	--	--	--	--	--

LCS (B8G0505-BS1)

Prepared: 07/05/18 Analyzed: 07/06/18

Arsenic	1.07	0.0060	mg/L	1.0	107	80-120		20		
---------	-------------	--------	------	-----	-----	--------	--	----	--	--

LCS Dup (B8G0505-BSD1)

Prepared: 07/05/18 Analyzed: 07/06/18

Arsenic	1.06	0.0060	mg/L	1.0	106	80-120	0.937	20		
---------	-------------	--------	------	-----	-----	--------	-------	----	--	--

Duplicate (B8G0505-DUP1)

Source: 8G02019-01

Prepared: 07/05/18 Analyzed: 07/06/18

Arsenic	0.0270	0.0060	mg/L		0.0274			1.47	30	
---------	---------------	--------	------	--	--------	--	--	------	----	--

Matrix Spike (B8G0505-MS1)

Source: 8G02018-01

Prepared: 07/05/18 Analyzed: 07/06/18

Arsenic	1.08	0.0060	mg/L	1.0	0.0151	106	75-125		20	
---------	-------------	--------	------	-----	--------	-----	--------	--	----	--

Matrix Spike Dup (B8G0505-MSD1)

Source: 8G02018-01

Prepared: 07/05/18 Analyzed: 07/06/18

Arsenic	1.05	0.0060	mg/L	1.0	0.0151	103	75-125	2.45	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: A5332669
Date Received: 07/02/18
Date Reported: 07/18/18

Special Notes

[1] = ** : Exceeds upper control limit.

Viorel Vasile
Operations Manager



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

July 18, 2018

Neil Irish

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

**Re : DFSP Norwalk GWETS NPDES Monthly / 04-NDLA-013
A5332670 / 8G02019**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 07/02/18 14:12 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: A5332670
Date Received: 07/02/18
Date Reported: 07/18/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
-----------	---------------	--------	-----	--------------	---------------

8260B TPHGASOLINEBTEXOXY

Surge Tank	8G02019-01	Water	5	07/02/18 08:33	07/02/18 14:12
After GAC-1	8G02019-02	Water	5	07/02/18 08:27	07/02/18 14:12
After GAC-2	8G02019-03	Water	5	07/02/18 08:20	07/02/18 14:12

Arsenic Total EPA 200.7

Surge Tank	8G02019-01	Water	5	07/02/18 08:33	07/02/18 14:12
After Zeolite Bed-1	8G02019-04	Water	5	07/02/18 08:11	07/02/18 14:12
After Zeolite Bed-2	8G02019-05	Water	5	07/02/18 08:10	07/02/18 14:12

Diesel Range Organics 8015M

Surge Tank	8G02019-01	Water	5	07/02/18 08:33	07/02/18 14:12
After GAC-1	8G02019-02	Water	5	07/02/18 08:27	07/02/18 14:12
After GAC-2	8G02019-03	Water	5	07/02/18 08:20	07/02/18 14:12

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: A5332670
Date Received: 07/02/18
Date Reported: 07/18/18
Units: ug/L

Date Sampled:	07/02/18	07/02/18	07/02/18		
Date Prepared:	07/12/18	07/12/18	07/12/18		
Date Analyzed:	07/13/18	07/13/18	07/13/18		
AA ID No:	8G02019-01	8G02019-02	8G02019-03		
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	1.1	<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)	0.41 J	<0.40	0.40 J	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	121%	126%	120%	70-140
Dibromofluoromethane	95%	95%	100%	70-140
Toluene-d8	110%	112%	113%	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: A5332670
Date Received: 07/02/18
Date Reported: 07/18/18
Units: ug/L

Date Sampled:	07/02/18	07/02/18	07/02/18		
Date Prepared:	07/05/18	07/05/18	07/05/18		
Date Analyzed:	07/05/18	07/05/18	07/05/18		
AA ID No:	8G02019-01	8G02019-02	8G02019-03		
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	<60	<60	<60	60	100
---------------------------------	-----	-----	-----	----	-----

Surrogates

o-Terphenyl	66%	64%	50%	<u>%REC Limits</u>	50-150
-------------	-----	-----	-----	---------------------------	--------

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: A5332670
Date Received: 07/02/18
Date Reported: 07/18/18

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>									
8G02019-01	Surge Tank	07/02/18	07/05/18	07/06/18	1	0.027	mg/L	0.006	0.007
8G02019-04	After Zeolite Bed-1	07/02/18	07/05/18	07/06/18	1	0.019	mg/L	0.006	0.007
8G02019-05	After Zeolite Bed-2	07/02/18	07/05/18	07/06/18	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: A5332670
Date Received: 07/02/18
Date Reported: 07/18/18

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit	Notes
---------	------------------	-------	-------	-------------	---------------	-----------	--------	---------	-------	-------

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

Batch B8G1212 - EPA 5030B

Blank (B8G1212-BLK1)

Prepared: 07/12/18 Analyzed: 07/13/18

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	70.8		ug/L	50	142	70-140
Surrogate: Dibromofluoromethane	51.1		ug/L	50	102	70-140
Surrogate: Toluene-d8	51.6		ug/L	50	103	70-140

LCS (B8G1212-BS1)

Prepared: 07/12/18 Analyzed: 07/13/18

tert-Amyl Methyl Ether (TAME)	23.7	0.30	ug/L	20	118	70-130
Benzene	21.0	0.20	ug/L	20	105	75-125
tert-Butyl alcohol (TBA)	107	7.0	ug/L	100	107	70-130
Diisopropyl ether (DIPE)	21.8	0.50	ug/L	20	109	70-130
Ethylbenzene	22.4	0.20	ug/L	20	112	75-125
Ethyl-tert-Butyl Ether (ETBE)	22.8	0.40	ug/L	20	114	70-130
Gasoline Range Organics (GRO)	518	40	ug/L	500	104	70-130
Methyl-tert-Butyl Ether (MTBE)	47.3	0.40	ug/L	40	118	70-135
Toluene	23.2	0.30	ug/L	20	116	75-125
o-Xylene	18.9	0.30	ug/L	20	94.4	75-125
m,p-Xylenes	39.2	0.40	ug/L	40	98.0	70-130

Surrogate: 4-Bromofluorobenzene	45.8		ug/L	50	91.6	70-140
Surrogate: Dibromofluoromethane	49.8		ug/L	50	99.5	70-140
Surrogate: Toluene-d8	51.8		ug/L	50	104	70-140

LCS Dup (B8G1212-BSD1)

Prepared: 07/12/18 Analyzed: 07/13/18

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: A5332670
Date Received: 07/02/18
Date Reported: 07/18/18

Table with 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 B8G1212 - EPA 5030B

LCS Dup (B8G1212-BSD1) Continued

Prepared: 07/12/18 Analyzed: 07/13/18

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

Surrogate: 4-Bromofluorobenzene 281000000 ug/L 50 NR 70-140

Surrogate: Dibromofluoromethane 50.6 ug/L 50 101 70-140

Surrogate: Toluene-d8 50.1 ug/L 50 100 70-140

Matrix Spike (B8G1212-MS1)

Source: 8G02019-03 Prepared: 07/12/18 Analyzed: 07/13/18

Table listing matrix spike results for analytes like tert-Amyl Methyl Ether (TAME), Benzene, tert-Butyl alcohol (TBA).

Surrogate: 4-Bromofluorobenzene 49.4 ug/L 50 98.8 70-140

Surrogate: Dibromofluoromethane 49.3 ug/L 50 98.7 70-140

Surrogate: Toluene-d8 55.5 ug/L 50 111 70-140

Matrix Spike Dup (B8G1212-MSD1)

Source: 8G02019-03 Prepared: 07/12/18 Analyzed: 07/13/18

Table listing matrix spike duplicate results for tert-Amyl Methyl Ether (TAME).

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: A5332670
Date Received: 07/02/18
Date Reported: 07/18/18

Analyte	Reporting Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
---------	------------------	-----------------	-------	-------------	---------------	-----------	-------------	---------	-----------	-------

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

Batch B8G1212 - EPA 5030B

Matrix Spike Dup (B8G1212-MSD1) Source: 8G02019-03 Prepared: 07/12/18 Analyzed: 07/13/18

Continued

Benzene	19.1	0.20	ug/L	20	<0.50	95.4	70-130	12.0	30	
tert-Butyl alcohol (TBA)	74.5	7.0	ug/L	100	<10	74.5	70-130	12.6	30	
Diisopropyl ether (DIPE)	18.7	0.50	ug/L	20	<2.0	93.3	70-130	6.68	30	
Ethylbenzene	20.1	0.20	ug/L	20	<0.50	100	70-130	8.44	30	
Ethyl-tert-Butyl Ether (ETBE)	17.1	0.40	ug/L	20	<2.0	85.6	70-130	6.39	30	
Methyl-tert-Butyl Ether (MTBE)	34.3	0.40	ug/L	40	0.400	84.8	70-130	5.23	30	
Toluene	20.2	0.30	ug/L	20	<0.50	101	70-130	9.30	30	
o-Xylene	16.7	0.30	ug/L	20	<0.50	83.4	70-130	9.48	30	
m,p-Xylenes	34.4	0.40	ug/L	40	<1.0	86.0	70-130	8.72	30	
Surrogate: 4-Bromofluorobenzene	402		ug/L	50		803	70-140			
Surrogate: Dibromofluoromethane	47.2		ug/L	50		94.5	70-140			
Surrogate: Toluene-d8	54.5		ug/L	50		109	70-140			

Diesel Range Organics by GC/FID - Quality Control

Batch B8G0501 - EPA 3510C

Blank (B8G0501-BLK1)

Prepared & Analyzed: 07/05/18

Diesel Range Organics as Diesel	<60	60	ug/L							
Surrogate: o-Terphenyl	24.3		ug/L	40		60.7	50-150			
LCS (B8G0501-BS1)										
Diesel Range Organics as Diesel	609	60	ug/L	800		76.1	75-125		30	
Surrogate: o-Terphenyl	36.0		ug/L	40		90.1	50-150			
LCS Dup (B8G0501-BSD1)										
Diesel Range Organics as Diesel	600	60	ug/L	800		75.1	75-125	1.39	30	
Surrogate: o-Terphenyl	22.9		ug/L	40		57.1	50-150			

Total Metals by ICP Atomic Emission Spectroscopy - Quality Control

Batch B8G0505 - EPA 200.7

Blank (B8G0505-BLK1)

Prepared: 07/05/18 Analyzed: 07/06/18

Arsenic	<0.0060	0.0060	mg/L							
LCS (B8G0505-BS1)										

Prepared: 07/05/18 Analyzed: 07/06/18

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: A5332670
Date Received: 07/02/18
Date Reported: 07/18/18

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Metals by ICP Atomic Emission Spectroscopy - Quality Control										
<i>Batch B8G0505 - EPA 200.7</i>										
LCS (B8G0505-BS1) Continued				Prepared: 07/05/18 Analyzed: 07/06/18						
Arsenic	1.07	0.0060	mg/L	1.0	107	80-120		20		
LCS Dup (B8G0505-BSD1)				Prepared: 07/05/18 Analyzed: 07/06/18						
Arsenic	1.06	0.0060	mg/L	1.0	106	80-120	0.937	20		
Duplicate (B8G0505-DUP1)				Source: 8G02019-01 Prepared: 07/05/18 Analyzed: 07/06/18						
Arsenic	0.0270	0.0060	mg/L	0.0274	1.47			30		
Matrix Spike (B8G0505-MS1)				Source: 8G02018-01 Prepared: 07/05/18 Analyzed: 07/06/18						
Arsenic	1.08	0.0060	mg/L	1.0	0.0151	106	75-125	20		
Matrix Spike Dup (B8G0505-MSD1)				Source: 8G02018-01 Prepared: 07/05/18 Analyzed: 07/06/18						
Arsenic	1.05	0.0060	mg/L	1.0	0.0151	103	75-125	2.45	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: A5332670
Date Received: 07/02/18
Date Reported: 07/18/18

Special Notes

[1] = ** : Exceeds upper control limit.

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

Viorel Vasile
Operations Manager



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

15897

9765 ETON AVE., CHATSWORTH, CA 91311
 Tel: 818-998-5547 FAX: 818-998-7258

Client: APEX/The Source Group, Inc.	Project Name / No.: DFSP - Norwalk / 091-NDLA	Sampler's Name: Glenn Androsko	
Project Manager: Neil Irish	Site Address: 15306 Norwalk Blvd	Sampler's Signature: <i>Glenn Androsko</i>	
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)

Client I.D.	Date	Time	Sample Matrix	No. of Cont	ANALYSIS REQUESTED (Test Name)					Special Instructions	
					TPH/BTEX/Oxys 820B	Arsenic 200.7	6010B Total Copper	6010B Diss. Copper			
Surge Tank	8602019-01	0833	Water	5	✓	✓	✓				
After GAC-1	-02	0827	Water	4	✓						
After GAC-2	-03	0820	Water	4	✓						
After Zolite Bed-1	-04	0811	Water	1	✓						
After Zolite Bed-2	-05	0810	Water	1	✓						
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> RECEIVED DATE: 7/21/18 TIME: 11:15 BY: <i>Glenn Androsko</i> </div>											
					Date	7-2-18	Time	11:15	Received by		
					Date	7-2-18	Time	2:12	Received by		
					Date		Time		Received by		
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> RECEIVED DATE: 7/2/18 TIME: 2:12 BY: <i>Glenn Androsko</i> </div>											
					Date		Time		Received by		

A5332670/8602019

Note: By relinquishing samples to American Analytix, 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 Analytix.



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

July 18, 2018

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5332671 / 8G02020**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 07/02/18 14:12 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: A5332671
Date Received: 07/02/18
Date Reported: 07/18/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
-----------	---------------	--------	-----	--------------	---------------

GRO in Vapor as Hexane

VES Influent	8G02020-01	Vapor	5	07/02/18 09:16	07/02/18 14:12
VES Effluent	8G02020-02	Vapor	5	07/02/18 09:11	07/02/18 14:12

VOCs BTEX/MTBE Vapor GC/MS

VES Influent	8G02020-01	Vapor	5	07/02/18 09:16	07/02/18 14:12
VES Effluent	8G02020-02	Vapor	5	07/02/18 09:11	07/02/18 14:12

VOCs Gasoline Range Organics Vapor

VES Influent	8G02020-01	Vapor	5	07/02/18 09:16	07/02/18 14:12
VES Effluent	8G02020-02	Vapor	5	07/02/18 09:11	07/02/18 14:12

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: A5332671
Date Received: 07/02/18
Date Reported: 07/18/18
Sampled: 07/02/18
Prepared: 07/03/18
Analyzed: 07/03/18

VES Influent
8G02020-01 (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	99.1 %	70-140
Dibromofluoromethane	122 %	70-140
Toluene-d8	102 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332671
Date Received: 07/02/18
Date Reported: 07/18/18
Sampled: 07/02/18
Prepared: 07/03/18
Analyzed: 07/03/18

VES Effluent
8G02020-02 (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	103 %	70-140
Dibromofluoromethane	118 %	70-140
Toluene-d8	98.5 %	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: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332671
Date Received: 07/02/18
Date Reported: 07/18/18
Sampled: 07/02/18
Prepared: 07/03/18
Analyzed: 07/03/18

VES Influent**8G02020-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	490	ug/L	20	120	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		102 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332671
Date Received: 07/02/18
Date Reported: 07/18/18
Sampled: 07/02/18
Prepared: 07/03/18
Analyzed: 07/03/18

VES Effluent**8G02020-02 (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		90.5 %			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
Method: GRO in Vapor as Hexane

AA Project No: A5332671
Date Received: 07/02/18
Date Reported: 07/18/18
Units: ppmv

Date Sampled:	07/02/18	07/02/18	
Date Prepared:	07/03/18	07/03/18	
Date Analyzed:	07/03/18	07/03/18	
AA ID No:	8G02020-01	8G02020-02	
Client ID No:	VES Influent	VES Effluent	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	120	<5.7	5.7
---------------	------------	------	-----

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: A5332671
Date Received: 07/02/18
Date Reported: 07/18/18

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 B8G0331 - *** DEFAULT PREP ***</i>									
Blank (B8G0331-BLK1)					Prepared & Analyzed: 07/03/18				
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>	49.0		ug/L	50		97.9 70-140			
<i>Surrogate: Dibromofluoromethane</i>	65.9		ug/L	50		132 70-140			
<i>Surrogate: Toluene-d8</i>	47.9		ug/L	50		95.9 70-140			
LCS (B8G0331-BS1)					Prepared & Analyzed: 07/03/18				
Benzene	23.9	0.50	ug/L	20		120 75-125			
Ethylbenzene	19.6	0.50	ug/L	20		98.0 75-125			
Methyl-tert-Butyl Ether (MTBE)	38.3	2.0	ug/L	40		95.7 75-125			
Toluene	17.5	0.50	ug/L	20		87.4 75-125			
o-Xylene	20.6	0.50	ug/L	20		103 75-125			
m,p-Xylenes	39.5	1.0	ug/L	40		98.8 75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	47.1		ug/L	50		94.3 70-140			
<i>Surrogate: Dibromofluoromethane</i>	47.0		ug/L	50		94.0 70-140			
<i>Surrogate: Toluene-d8</i>	43.7		ug/L	50		87.4 70-140			
LCS Dup (B8G0331-BSD1)					Prepared & Analyzed: 07/03/18				
Benzene	18.9	0.50	ug/L	20		94.5 75-125	23.4	30	
Ethylbenzene	18.8	0.50	ug/L	20		94.0 75-125	4.22	30	
Methyl-tert-Butyl Ether (MTBE)	32.2	2.0	ug/L	40		80.4 75-125	17.3	30	
Toluene	18.7	0.50	ug/L	20		93.4 75-125	6.64	30	
o-Xylene	18.9	0.50	ug/L	20		94.7 75-125	8.30	30	
m,p-Xylenes	38.2	1.0	ug/L	40		95.5 75-125	3.42	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	45.3		ug/L	50		90.7 70-140			
<i>Surrogate: Dibromofluoromethane</i>	50.7		ug/L	50		101 70-140			
<i>Surrogate: Toluene-d8</i>	47.3		ug/L	50		94.6 70-140			
Duplicate (B8G0331-DUP1)					Source: 8G02023-04 Prepared & Analyzed: 07/03/18				

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: A5332671
Date Received: 07/02/18
Date Reported: 07/18/18

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

Batch B8G0331 - *** DEFAULT PREP ***

Duplicate (B8G0331-DUP1) Continued Source: 8G02023-04 Prepared & Analyzed: 07/03/18

Benzene	40.6	2.5	ug/L		54.7			29.5	30	
Ethylbenzene	16.6	2.5	ug/L		19.4			15.5	30	
Methyl-tert-Butyl Ether (MTBE)	<10	10	ug/L						30	
Toluene	<2.5	2.5	ug/L		2.30			21.7	30	
o-Xylene	9.80	2.5	ug/L		11.2			12.9	30	
m,p-Xylenes	60.1	5.0	ug/L		68.2			12.6	30	

Surrogate: 4-Bromofluorobenzene	39.1		ug/L	50		78.1	70-140			
Surrogate: Dibromofluoromethane	59.5		ug/L	50		119	70-140			
Surrogate: Toluene-d8	45.4		ug/L	50		90.9	70-140			

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

Batch B8G0337 - *** DEFAULT PREP ***

Blank (B8G0337-BLK1) Prepared & Analyzed: 07/03/18

Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	44.4		ug/L	50		88.8	70-130			

LCS (B8G0337-BS1) Prepared & Analyzed: 07/03/18

Gasoline Range Organics (GRO)	444	20	ug/L	500		88.8	75-125			
Surrogate: a,a,a-Trifluorotoluene	53.2		ug/L	50		106	70-130			

LCS Dup (B8G0337-BSD1) Prepared & Analyzed: 07/03/18

Gasoline Range Organics (GRO)	443	20	ug/L	500		88.7	75-125	0.108	30	
Surrogate: a,a,a-Trifluorotoluene	53.7		ug/L	50		107	70-130			

Duplicate (B8G0337-DUP1) Source: 8G02023-03 Prepared & Analyzed: 07/03/18

Gasoline Range Organics (GRO)	1580	20	ug/L		1680			5.93	30	
Surrogate: a,a,a-Trifluorotoluene	59.7		ug/L	50		119	70-130			

GRO in Vapor as Hexane - Quality Control

Batch B8G0337 - *** DEFAULT PREP ***

Blank (B8G0337-BLK1) Prepared & Analyzed: 07/03/18

GRO as Hexane	<5.7	5.7	ppmv							
---------------	------	-----	------	--	--	--	--	--	--	--

Duplicate (B8G0337-DUP1) Source: 8G02023-03 Prepared & Analyzed: 07/03/18

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: A5332671
Date Received: 07/02/18
Date Reported: 07/18/18

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
GRO in Vapor as Hexane - Quality Control										
<i>Batch B8G0337 - *** DEFAULT PREP ***</i>										
Duplicate (B8G0337-DUP1) Continued Source: 8G02023-03 Prepared & Analyzed: 07/03/18										
GRO as Hexane	386	5.7	ppmv		410			5.87	30	

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: A5332671
Date Received: 07/02/18
Date Reported: 07/18/18

Special Notes

Viorel Vasile
Operations Manager



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

July 18, 2018

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5332672 / 8G02021**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 07/02/18 14:12 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: A5332672
Date Received: 07/02/18
Date Reported: 07/18/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
-----------	---------------	--------	-----	--------------	---------------

GRO in Vapor as Hexane

VES After GAC-1	8G02021-01	Vapor	5	07/02/18 09:14	07/02/18 14:12
VES After GAC-2	8G02021-02	Vapor	5	07/02/18 09:12	07/02/18 14:12

VOCs BTEX/MTBE Vapor GC/MS

VES After GAC-1	8G02021-01	Vapor	5	07/02/18 09:14	07/02/18 14:12
VES After GAC-2	8G02021-02	Vapor	5	07/02/18 09:12	07/02/18 14:12

VOCs Gasoline Range Organics Vapor

VES After GAC-1	8G02021-01	Vapor	5	07/02/18 09:14	07/02/18 14:12
VES After GAC-2	8G02021-02	Vapor	5	07/02/18 09:12	07/02/18 14:12

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: A5332672
Date Received: 07/02/18
Date Reported: 07/18/18
Sampled: 07/02/18
Prepared: 07/03/18
Analyzed: 07/03/18

VES After GAC-1
8G02021-01 (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	97.5 %	70-140
Dibromofluoromethane	131 %	70-140
Toluene-d8	96.2 %	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: A5332672
Date Received: 07/02/18
Date Reported: 07/18/18
Sampled: 07/02/18
Prepared: 07/03/18
Analyzed: 07/03/18

VES After GAC-2
8G02021-02 (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	98.9 %	70-140
Dibromofluoromethane	139 %	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: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332672
Date Received: 07/02/18
Date Reported: 07/18/18
Sampled: 07/02/18
Prepared: 07/03/18
Analyzed: 07/03/18

VES After GAC-1**8G02021-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	220	ug/L	20	54	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 by GC/FID

AA Project No: A5332672
Date Received: 07/02/18
Date Reported: 07/18/18
Sampled: 07/02/18
Prepared: 07/03/18
Analyzed: 07/03/18

VES After GAC-2**8G02021-02 (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		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
Method: GRO in Vapor as Hexane

AA Project No: A5332672
Date Received: 07/02/18
Date Reported: 07/18/18
Units: ppmv

Date Sampled:	07/02/18	07/02/18	
Date Prepared:	07/03/18	07/03/18	
Date Analyzed:	07/03/18	07/03/18	
AA ID No:	8G02021-01	8G02021-02	
Client ID No:	VES After GAC-1	VES After GAC-2	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	53	<5.7	5.7
---------------	-----------	------	-----

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: A5332672
Date Received: 07/02/18
Date Reported: 07/18/18

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

Batch B8G0331 - *** DEFAULT PREP ***

Blank (B8G0331-BLK1)

Prepared & Analyzed: 07/03/18

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

49.0 ug/L 50 97.9 70-140

Surrogate: Dibromofluoromethane

65.9 ug/L 50 132 70-140

Surrogate: Toluene-d8

47.9 ug/L 50 95.9 70-140

LCS (B8G0331-BS1)

Prepared & Analyzed: 07/03/18

Benzene	23.9	0.50	ug/L	20		120	75-125		
Ethylbenzene	19.6	0.50	ug/L	20		98.0	75-125		
Methyl-tert-Butyl Ether (MTBE)	38.3	2.0	ug/L	40		95.7	75-125		
Toluene	17.5	0.50	ug/L	20		87.4	75-125		
o-Xylene	20.6	0.50	ug/L	20		103	75-125		
m,p-Xylenes	39.5	1.0	ug/L	40		98.8	75-125		

Surrogate: 4-Bromofluorobenzene

47.1 ug/L 50 94.3 70-140

Surrogate: Dibromofluoromethane

47.0 ug/L 50 94.0 70-140

Surrogate: Toluene-d8

43.7 ug/L 50 87.4 70-140

LCS Dup (B8G0331-BSD1)

Prepared & Analyzed: 07/03/18

Benzene	18.9	0.50	ug/L	20		94.5	75-125	23.4	30
Ethylbenzene	18.8	0.50	ug/L	20		94.0	75-125	4.22	30
Methyl-tert-Butyl Ether (MTBE)	32.2	2.0	ug/L	40		80.4	75-125	17.3	30
Toluene	18.7	0.50	ug/L	20		93.4	75-125	6.64	30
o-Xylene	18.9	0.50	ug/L	20		94.7	75-125	8.30	30
m,p-Xylenes	38.2	1.0	ug/L	40		95.5	75-125	3.42	30

Surrogate: 4-Bromofluorobenzene

45.3 ug/L 50 90.7 70-140

Surrogate: Dibromofluoromethane

50.7 ug/L 50 101 70-140

Surrogate: Toluene-d8

47.3 ug/L 50 94.6 70-140

Duplicate (B8G0331-DUP1)

Source: 8G02023-04 Prepared & Analyzed: 07/03/18

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: A5332672
Date Received: 07/02/18
Date Reported: 07/18/18

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

Batch B8G0331 - *** DEFAULT PREP ***

Duplicate (B8G0331-DUP1) Continued Source: 8G02023-04 Prepared & Analyzed: 07/03/18

Benzene	40.6	2.5	ug/L		54.7			29.5	30	
Ethylbenzene	16.6	2.5	ug/L		19.4			15.5	30	
Methyl-tert-Butyl Ether (MTBE)	<10	10	ug/L						30	
Toluene	<2.5	2.5	ug/L		2.30			21.7	30	
o-Xylene	9.80	2.5	ug/L		11.2			12.9	30	
m,p-Xylenes	60.1	5.0	ug/L		68.2			12.6	30	

Surrogate: 4-Bromofluorobenzene	39.1		ug/L	50		78.1	70-140			
Surrogate: Dibromofluoromethane	59.5		ug/L	50		119	70-140			
Surrogate: Toluene-d8	45.4		ug/L	50		90.9	70-140			

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

Batch B8G0337 - *** DEFAULT PREP ***

Blank (B8G0337-BLK1) Prepared & Analyzed: 07/03/18

Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	44.4		ug/L	50		88.8	70-130			

LCS (B8G0337-BS1) Prepared & Analyzed: 07/03/18

Gasoline Range Organics (GRO)	444	20	ug/L	500		88.8	75-125			
Surrogate: a,a,a-Trifluorotoluene	53.2		ug/L	50		106	70-130			

LCS Dup (B8G0337-BSD1) Prepared & Analyzed: 07/03/18

Gasoline Range Organics (GRO)	443	20	ug/L	500		88.7	75-125	0.108	30	
Surrogate: a,a,a-Trifluorotoluene	53.7		ug/L	50		107	70-130			

Duplicate (B8G0337-DUP1) Source: 8G02023-03 Prepared & Analyzed: 07/03/18

Gasoline Range Organics (GRO)	1580	20	ug/L		1680			5.93	30	
Surrogate: a,a,a-Trifluorotoluene	59.7		ug/L	50		119	70-130			

GRO in Vapor as Hexane - Quality Control

Batch B8G0337 - *** DEFAULT PREP ***

Blank (B8G0337-BLK1) Prepared & Analyzed: 07/03/18

GRO as Hexane	<5.7	5.7	ppmv							
---------------	------	-----	------	--	--	--	--	--	--	--

Duplicate (B8G0337-DUP1) Source: 8G02023-03 Prepared & Analyzed: 07/03/18

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: A5332672
Date Received: 07/02/18
Date Reported: 07/18/18

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	RPD Limit	Notes
GRO in Vapor as Hexane - Quality Control										
<i>Batch B8G0337 - *** DEFAULT PREP ***</i>										
Duplicate (B8G0337-DUP1) Continued Source: 8G02023-03 Prepared & Analyzed: 07/03/18										
GRO as Hexane	386	5.7	ppmv		410			5.87	30	

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: A5332672
Date Received: 07/02/18
Date Reported: 07/18/18

Special Notes

Viorel Vasile
Operations Manager



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

July 18, 2018

Neil Irish

The Source Group, Inc. (SH)

1962 Freeman Ave.

Signal Hill, CA 90755

Re : DFSP Norwalk VES AQMD / 04-NDLA-013

A5332673 / 8G02023

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 07/02/18 14:12 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,

A handwritten signature in black ink, appearing to read "Viorel Vasile", is written over a horizontal line.

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: A5332673
Date Received: 07/02/18
Date Reported: 07/18/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
-----------	---------------	--------	-----	--------------	---------------

GRO in Vapor as Hexane

Thermox Influent	8G02023-01	Vapor	5	07/02/18 09:41	07/02/18 14:12
Thermox Effluent	8G02023-02	Vapor	5	07/02/18 09:37	07/02/18 14:12
South Trunkline	8G02023-03	Vapor	5	07/02/18 09:59	07/02/18 14:12
East Trunkline	8G02023-04	Vapor	5	07/02/18 09:53	07/02/18 14:12

VOCs BTEX/MTBE Vapor GC/MS

Thermox Influent	8G02023-01	Vapor	5	07/02/18 09:41	07/02/18 14:12
Thermox Effluent	8G02023-02	Vapor	5	07/02/18 09:37	07/02/18 14:12
South Trunkline	8G02023-03	Vapor	5	07/02/18 09:59	07/02/18 14:12
East Trunkline	8G02023-04	Vapor	5	07/02/18 09:53	07/02/18 14:12

VOCs Gasoline Range Organics Vapor

Thermox Influent	8G02023-01	Vapor	5	07/02/18 09:41	07/02/18 14:12
Thermox Effluent	8G02023-02	Vapor	5	07/02/18 09:37	07/02/18 14:12
South Trunkline	8G02023-03	Vapor	5	07/02/18 09:59	07/02/18 14:12
East Trunkline	8G02023-04	Vapor	5	07/02/18 09:53	07/02/18 14:12

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: 2
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5332673
Date Received: 07/02/18
Date Reported: 07/18/18
Sampled: 07/02/18
Prepared: 07/03/18
Analyzed: 07/03/18

**Thermax Influent
8G02023-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	7.1	ug/L	0.50	2.2	ppmv	0.16
Ethylbenzene	<1.0	ug/L	0.50	<0.23	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<4.0	ug/L	2.0	<1.1	ppmv	0.55
Toluene	<1.0	ug/L	0.50	<0.27	ppmv	0.13
o-Xylene	<1.0	ug/L	0.50	<0.23	ppmv	0.12
m,p-Xylenes	2.4	ug/L	1.0	0.55	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	93.6 %	70-140
Dibromofluoromethane	132 %	70-140
Toluene-d8	91.6 %	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: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5332673
Date Received: 07/02/18
Date Reported: 07/18/18
Sampled: 07/02/18
Prepared: 07/03/18
Analyzed: 07/03/18

Thermax Effluent
8G02023-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	<0.25	ug/L	0.50	<0.078	ppmv	0.16
Ethylbenzene	<0.25	ug/L	0.50	<0.058	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<1.0	ug/L	2.0	<0.28	ppmv	0.55
Toluene	<0.25	ug/L	0.50	<0.066	ppmv	0.13
o-Xylene	<0.25	ug/L	0.50	<0.058	ppmv	0.12
m,p-Xylenes	<0.50	ug/L	1.0	<0.12	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	100 %	70-140
Dibromofluoromethane	135 %	70-140
Toluene-d8	96.5 %	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: A5332673
Date Received: 07/02/18
Date Reported: 07/18/18
Sampled: 07/02/18
Prepared: 07/03/18
Analyzed: 07/03/18

**South Trunkline
8G02023-03 (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	95.2 %	70-140
Dibromofluoromethane	137 %	70-140
Toluene-d8	94.6 %	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: 5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5332673
Date Received: 07/02/18
Date Reported: 07/18/18
Sampled: 07/02/18
Prepared: 07/03/18
Analyzed: 07/03/18

East Trunkline
8G02023-04 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	55	ug/L	0.50	17	ppmv	0.16
Ethylbenzene	19	ug/L	0.50	4.4	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<10	ug/L	2.0	<2.8	ppmv	0.55
Toluene	<2.5	ug/L	0.50	<0.66	ppmv	0.13
o-Xylene	11	ug/L	0.50	2.5	ppmv	0.12
m,p-Xylenes	68	ug/L	1.0	16	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	100 %	70-140
Dibromofluoromethane	96.2 %	70-140
Toluene-d8	94.7 %	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: A5332673
Date Received: 07/02/18
Date Reported: 07/18/18
Sampled: 07/02/18
Prepared: 07/03/18
Analyzed: 07/03/18

Thermox Influent
8G02023-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	2300	ug/L	20	560	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		121 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332673
Date Received: 07/02/18
Date Reported: 07/18/18
Sampled: 07/02/18
Prepared: 07/03/18
Analyzed: 07/03/18

Thermox Effluent
8G02023-02 (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		89.7 %			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: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332673
Date Received: 07/02/18
Date Reported: 07/18/18
Sampled: 07/02/18
Prepared: 07/03/18
Analyzed: 07/03/18

South Trunkline
8G02023-03 (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		120 %			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: 5
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332673
Date Received: 07/02/18
Date Reported: 07/18/18
Sampled: 07/02/18
Prepared: 07/03/18
Analyzed: 07/03/18

East Trunkline

8G02023-04 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	19000	ug/L	20	4600	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		115 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Method: GRO in Vapor as Hexane

AA Project No: A5332673
Date Received: 07/02/18
Date Reported: 07/18/18
Units: ppmv

Date Sampled:	07/02/18	07/02/18	07/02/18	07/02/18
Date Prepared:	07/03/18	07/03/18	07/03/18	07/03/18
Date Analyzed:	07/03/18	07/03/18	07/03/18	07/03/18
AA ID No:	8G02023-01	8G02023-02	8G02023-03	8G02023-04
Client ID No:	Thermox Influent	Thermox Effluent	South Trunkline	East Trunkline
Matrix:	Vapor	Vapor	Vapor	Vapor
Dilution Factor:	1	1	1	5
				MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	560	<5.7	410	4700	5.7
---------------	------------	------	------------	-------------	-----

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: A5332673
Date Received: 07/02/18
Date Reported: 07/18/18

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

Batch B8G0331 - *** DEFAULT PREP ***

Blank (B8G0331-BLK1)

Prepared & Analyzed: 07/03/18

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	49.0		ug/L	50		97.9	70-140		
Surrogate: Dibromofluoromethane	65.9		ug/L	50		132	70-140		
Surrogate: Toluene-d8	47.9		ug/L	50		95.9	70-140		

LCS (B8G0331-BS1)

Prepared & Analyzed: 07/03/18

Benzene	23.9	0.50	ug/L	20		120	75-125		
Ethylbenzene	19.6	0.50	ug/L	20		98.0	75-125		
Methyl-tert-Butyl Ether (MTBE)	38.3	2.0	ug/L	40		95.7	75-125		
Toluene	17.5	0.50	ug/L	20		87.4	75-125		
o-Xylene	20.6	0.50	ug/L	20		103	75-125		
m,p-Xylenes	39.5	1.0	ug/L	40		98.8	75-125		

Surrogate: 4-Bromofluorobenzene	47.1		ug/L	50		94.3	70-140		
Surrogate: Dibromofluoromethane	47.0		ug/L	50		94.0	70-140		
Surrogate: Toluene-d8	43.7		ug/L	50		87.4	70-140		

LCS Dup (B8G0331-BSD1)

Prepared & Analyzed: 07/03/18

Benzene	18.9	0.50	ug/L	20		94.5	75-125	23.4	30
Ethylbenzene	18.8	0.50	ug/L	20		94.0	75-125	4.22	30
Methyl-tert-Butyl Ether (MTBE)	32.2	2.0	ug/L	40		80.4	75-125	17.3	30
Toluene	18.7	0.50	ug/L	20		93.4	75-125	6.64	30
o-Xylene	18.9	0.50	ug/L	20		94.7	75-125	8.30	30
m,p-Xylenes	38.2	1.0	ug/L	40		95.5	75-125	3.42	30

Surrogate: 4-Bromofluorobenzene	45.3		ug/L	50		90.7	70-140		
Surrogate: Dibromofluoromethane	50.7		ug/L	50		101	70-140		
Surrogate: Toluene-d8	47.3		ug/L	50		94.6	70-140		

Duplicate (B8G0331-DUP1)

Source: 8G02023-04 Prepared & Analyzed: 07/03/18

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: A5332673
Date Received: 07/02/18
Date Reported: 07/18/18

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

Batch B8G0331 - *** DEFAULT PREP ***

Duplicate (B8G0331-DUP1) Continued Source: 8G02023-04 Prepared & Analyzed: 07/03/18

Benzene	40.6	2.5	ug/L		54.7			29.5	30	
Ethylbenzene	16.6	2.5	ug/L		19.4			15.5	30	
Methyl-tert-Butyl Ether (MTBE)	<10	10	ug/L		<10				30	
Toluene	<2.5	2.5	ug/L		2.30			21.7	30	
o-Xylene	9.80	2.5	ug/L		11.2			12.9	30	
m,p-Xylenes	60.1	5.0	ug/L		68.2			12.6	30	

Surrogate: 4-Bromofluorobenzene	39.1		ug/L	50		78.1	70-140			
Surrogate: Dibromofluoromethane	59.5		ug/L	50		119	70-140			
Surrogate: Toluene-d8	45.4		ug/L	50		90.9	70-140			

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

Batch B8G0331 - *** DEFAULT PREP ***

Duplicate (B8G0331-DUP1) Source: 8G02023-04 Prepared & Analyzed: 07/03/18

Gasoline Range Organics (GRO)	<100	100	ug/L		19500				30	
Surrogate: a,a,a-Trifluorotoluene	0.00		ug/L				70-130			

Batch B8G0337 - *** DEFAULT PREP ***

Blank (B8G0337-BLK1) Prepared & Analyzed: 07/03/18

Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	44.4		ug/L	50		88.8	70-130			

LCS (B8G0337-BS1) Prepared & Analyzed: 07/03/18

Gasoline Range Organics (GRO)	444	20	ug/L	500		88.8	75-125			
Surrogate: a,a,a-Trifluorotoluene	53.2		ug/L	50		106	70-130			

LCS Dup (B8G0337-BSD1) Prepared & Analyzed: 07/03/18

Gasoline Range Organics (GRO)	443	20	ug/L	500		88.7	75-125	0.108	30	
Surrogate: a,a,a-Trifluorotoluene	53.7		ug/L	50		107	70-130			

Duplicate (B8G0337-DUP1) Source: 8G02023-03 Prepared & Analyzed: 07/03/18

Gasoline Range Organics (GRO)	1580	20	ug/L		1680			5.93	30	
Surrogate: a,a,a-Trifluorotoluene	59.7		ug/L	50		119	70-130			

GRO in Vapor as Hexane - 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: A5332673
Date Received: 07/02/18
Date Reported: 07/18/18

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit	Notes
GRO in Vapor as Hexane - Quality Control										
<i>Batch B8G0337 - *** DEFAULT PREP ***</i>										
Blank (B8G0337-BLK1) Prepared & Analyzed: 07/03/18										
GRO as Hexane	<5.7	5.7	ppmv							
Duplicate (B8G0337-DUP1) Source: 8G02023-03 Prepared & Analyzed: 07/03/18										
GRO as Hexane	386	5.7	ppmv		410			5.87	30	

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: A5332673
Date Received: 07/02/18
Date Reported: 07/18/18

Special Notes

Viorel Vasile
Operations Manager



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

August 06, 2018

Neil Irish

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

**Re : DFSP Norwalk GWETS NPDES Monthly / 04-NDLA-013
A5332716 / 8G30014**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 07/30/18 13:06 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: A5332716
Date Received: 07/30/18
Date Reported: 08/06/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
-----------	---------------	--------	-----	--------------	---------------

Arsenic Total EPA 200.7

Effluent	8G30014-01	Water	5	07/30/18 12:30	07/30/18 13:06
----------	------------	-------	---	----------------	----------------

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: A5332716
Date Received: 07/30/18
Date Reported: 08/06/18

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>									
8G30014-01	Effluent	07/30/18	07/31/18	07/31/18	1	<0.0060	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: A5332716
Date Received: 07/30/18
Date Reported: 08/06/18

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Metals by ICP Atomic Emission Spectroscopy - Quality Control										
<i>Batch B8G3127 - EPA 3010A</i>										
Blank (B8G3127-BLK1)	Prepared & Analyzed: 07/31/18									
Arsenic	<0.0060	0.0060	mg/L							
LCS (B8G3127-BS1)	Prepared & Analyzed: 07/31/18									
Arsenic	1.03	0.0060	mg/L	1.0	103	80-120			20	
LCS Dup (B8G3127-BSD1)	Prepared & Analyzed: 07/31/18									
Arsenic	1.02	0.0060	mg/L	1.0	102	80-120		0.390	20	
Duplicate (B8G3127-DUP1)	Source: 8G27002-01 Prepared: 07/31/18 Analyzed: 08/03/18									
Arsenic	<0.0060	0.0060	mg/L						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: A5332716
Date Received: 07/30/18
Date Reported: 08/06/18

Special Notes

Viorel Vasile
Operations Manager



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

August 21, 2018

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5332724 / 8H06013**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 08/06/18 14:30 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: A5332724
Date Received: 08/06/18
Date Reported: 08/21/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
-----------	---------------	--------	-----	--------------	---------------

Fixed Gases

HW-1	8H06013-03	Vapor	5	08/06/18 09:54	08/06/18 14:30
HW-5	8H06013-04	Vapor	5	08/06/18 09:56	08/06/18 14:30
HW-7	8H06013-05	Vapor	5	08/06/18 09:59	08/06/18 14:30

GRO in Vapor as Hexane

VES After GAC-1	8H06013-01	Vapor	5	08/06/18 09:45	08/06/18 14:30
VES After GAC-2	8H06013-02	Vapor	5	08/06/18 09:44	08/06/18 14:30
HW-1	8H06013-03	Vapor	5	08/06/18 09:54	08/06/18 14:30
HW-5	8H06013-04	Vapor	5	08/06/18 09:56	08/06/18 14:30
HW-7	8H06013-05	Vapor	5	08/06/18 09:59	08/06/18 14:30

VOCs BTEX/MTBE Vapor GC/MS

VES After GAC-1	8H06013-01	Vapor	5	08/06/18 09:45	08/06/18 14:30
VES After GAC-2	8H06013-02	Vapor	5	08/06/18 09:44	08/06/18 14:30
HW-1	8H06013-03	Vapor	5	08/06/18 09:54	08/06/18 14:30
HW-5	8H06013-04	Vapor	5	08/06/18 09:56	08/06/18 14:30
HW-7	8H06013-05	Vapor	5	08/06/18 09:59	08/06/18 14:30

VOCs Gasoline Range Organics Vapor

VES After GAC-1	8H06013-01	Vapor	5	08/06/18 09:45	08/06/18 14:30
-----------------	------------	-------	---	----------------	----------------

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: A5332724
Date Received: 08/06/18
Date Reported: 08/21/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
VES After GAC-2	8H06013-02	Vapor	5	08/06/18 09:44	08/06/18 14:30
HW-1	8H06013-03	Vapor	5	08/06/18 09:54	08/06/18 14:30
HW-5	8H06013-04	Vapor	5	08/06/18 09:56	08/06/18 14:30
HW-7	8H06013-05	Vapor	5	08/06/18 09:59	08/06/18 14:30

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332724
Date Received: 08/06/18
Date Reported: 08/21/18
Units: % by Volume

Date Sampled:	08/06/18	08/06/18	08/06/18	
Date Prepared:	08/08/18	08/08/18	08/08/18	
Date Analyzed:	08/08/18	08/08/18	08/08/18	
AA ID No:	8H06013-03	8H06013-04	8H06013-05	
Client ID No:	HW-1	HW-5	HW-7	
Matrix:	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	MRL

Fixed Gases (ASTM D1946M)

Methane	<0.10	<0.10	0.18	0.10
Oxygen	19	19	19	0.10
Carbon Dioxide	1.2	0.63	0.81	0.10
Carbon Monoxide	<0.10	<0.10	<0.10	0.10

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: A5332724
Date Received: 08/06/18
Date Reported: 08/21/18
Sampled: 08/06/18
Prepared: 08/07/18
Analyzed: 08/07/18

VES After GAC-1
8H06013-01 (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	96.4 %	70-140
Dibromofluoromethane	99.2 %	70-140
Toluene-d8	101 %	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: A5332724
Date Received: 08/06/18
Date Reported: 08/21/18
Sampled: 08/06/18
Prepared: 08/07/18
Analyzed: 08/07/18

VES After GAC-2
8H06013-02 (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	94.9 %	70-140
Dibromofluoromethane	95.1 %	70-140
Toluene-d8	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 VES AQMD
Matrix: Vapor
Dilution: 1
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5332724
Date Received: 08/06/18
Date Reported: 08/21/18
Sampled: 08/06/18
Prepared: 08/07/18
Analyzed: 08/07/18

HW-1

8H06013-03 (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	91.7 %	70-140
Dibromofluoromethane	94.6 %	70-140
Toluene-d8	98.8 %	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: A5332724
Date Received: 08/06/18
Date Reported: 08/21/18
Sampled: 08/06/18
Prepared: 08/07/18
Analyzed: 08/07/18

HW-5

8H06013-04 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	1.6	ug/L	0.50	0.50	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	92.3 %	70-140
Dibromofluoromethane	95.0 %	70-140
Toluene-d8	97.9 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332724
Date Received: 08/06/18
Date Reported: 08/21/18
Sampled: 08/06/18
Prepared: 08/07/18
Analyzed: 08/07/18

HW-7

8H06013-05 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	4.2	ug/L	0.50	1.3	ppmv	0.16
Ethylbenzene	0.53	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	3.0	ug/L	0.50	0.80	ppmv	0.13
o-Xylene	0.67	ug/L	0.50	0.15	ppmv	0.12
m,p-Xylenes	1.9	ug/L	1.0	0.44	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	91.6 %	70-140
Dibromofluoromethane	91.7 %	70-140
Toluene-d8	98.2 %	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: A5332724
Date Received: 08/06/18
Date Reported: 08/21/18
Sampled: 08/06/18
Prepared: 08/08/18
Analyzed: 08/08/18

VES After GAC-1**8H06013-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	46	ug/L	20	11	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		97.7 %			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: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332724
Date Received: 08/06/18
Date Reported: 08/21/18
Sampled: 08/06/18
Prepared: 08/08/18
Analyzed: 08/08/18

VES After GAC-2**8H06013-02 (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		96.4 %			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 by GC/FID

AA Project No: A5332724
Date Received: 08/06/18
Date Reported: 08/21/18
Sampled: 08/06/18
Prepared: 08/08/18
Analyzed: 08/08/18

HW-1**8H06013-03 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	450	ug/L	20	110	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 by GC/FID

AA Project No: A5332724
Date Received: 08/06/18
Date Reported: 08/21/18
Sampled: 08/06/18
Prepared: 08/08/18
Analyzed: 08/08/18

HW-5**8H06013-04 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	410	ug/L	20	100	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 by GC/FID

AA Project No: A5332724
Date Received: 08/06/18
Date Reported: 08/21/18
Sampled: 08/06/18
Prepared: 08/08/18
Analyzed: 08/08/18

HW-7**8H06013-05 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	840	ug/L	20	210	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		116 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Method: GRO in Vapor as Hexane

AA Project No: A5332724
Date Received: 08/06/18
Date Reported: 08/21/18
Units: ppmv

Date Sampled:	08/06/18	08/06/18	08/06/18	08/06/18
Date Prepared:	08/08/18	08/08/18	08/08/18	08/08/18
Date Analyzed:	08/08/18	08/08/18	08/08/18	08/08/18
AA ID No:	8H06013-01	8H06013-02	8H06013-03	8H06013-04
Client ID No:	VES After GAC-1	VES After GAC-2	HW-1	HW-5
Matrix:	Vapor	Vapor	Vapor	Vapor
Dilution Factor:	1	1	1	1
				MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	11	<5.7	110	98	5.7
---------------	----	------	-----	----	-----

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Method: GRO in Vapor as Hexane

AA Project No: A5332724
Date Received: 08/06/18
Date Reported: 08/21/18
Units: ppmv

Date Sampled:	08/06/18	
Date Prepared:	08/08/18	
Date Analyzed:	08/08/18	
AA ID No:	8H06013-05	
Client ID No:	HW-7	
Matrix:	Vapor	
Dilution Factor:	1	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	210	5.7
---------------	------------	-----

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: A5332724
Date Received: 08/06/18
Date Reported: 08/21/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Fixed Gases by TCD - Quality Control

Batch B8H0823 - *** DEFAULT PREP ***

Blank (B8H0823-BLK1)

Prepared & Analyzed: 08/08/18

Methane	<0.10	0.10	% by Volume							
Oxygen	<0.10	0.10	% by Volume							
Carbon Dioxide	<0.10	0.10	% by Volume							
Carbon Monoxide	<0.10	0.10	% by Volume							

LCS (B8H0823-BS1)

Prepared & Analyzed: 08/08/18

Methane	4.74	0.20	% by Volume	4.5		105	75-125			
Oxygen	3.91	0.20	% by Volume	4.0		97.8	75-125			
Carbon Dioxide	12.8	0.20	% by Volume	15		85.2	75-125			
Carbon Monoxide	6.33	0.20	% by Volume	7.0		90.5	75-125			

LCS Dup (B8H0823-BSD1)

Prepared & Analyzed: 08/08/18

Methane	5.09	0.20	% by Volume	4.5		113	75-125	7.20	30	
Oxygen	4.29	0.20	% by Volume	4.0		107	75-125	9.17	30	
Carbon Dioxide	13.7	0.20	% by Volume	15		91.5	75-125	7.13	30	
Carbon Monoxide	6.84	0.20	% by Volume	7.0		97.7	75-125	7.68	30	

Duplicate (B8H0823-DUP1)

Source: 8H08018-01 Prepared & Analyzed: 08/08/18

Methane	<0.10	0.10	% by Volume						30	
Oxygen	12.5	0.10	% by Volume		12.1			3.22	30	

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: A5332724
Date Received: 08/06/18
Date Reported: 08/21/18

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
---------	------------------	-------	-------	-------------	---------------	-----------	--------	-----	-----------	-------

Fixed Gases by TCD - Quality Control

Batch B8H0823 - *** DEFAULT PREP ***

Duplicate (B8H0823-DUP1) Continued Source: 8H08018-01 Prepared & Analyzed: 08/08/18

Carbon Dioxide	6.58	0.10	% by Volume		6.42			2.57	30	
Carbon Monoxide	<0.10	0.10	% by Volume						30	

VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control

Batch B8H0723 - *** DEFAULT PREP ***

Blank (B8H0723-BLK1) Prepared & Analyzed: 08/07/18

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	47.0		ug/L	50		94.1	70-140			
Surrogate: Dibromofluoromethane	46.5		ug/L	50		93.1	70-140			
Surrogate: Toluene-d8	48.2		ug/L	50		96.5	70-140			

LCS (B8H0723-BS1) Prepared & Analyzed: 08/07/18

Benzene	16.1	0.50	ug/L	20		80.6	75-125			
Ethylbenzene	17.5	0.50	ug/L	20		87.6	75-125			
Methyl-tert-Butyl Ether (MTBE)	33.7	2.0	ug/L	40		84.3	75-125			
Toluene	17.9	0.50	ug/L	20		89.7	75-125			
o-Xylene	18.4	0.50	ug/L	20		91.8	75-125			
m,p-Xylenes	38.2	1.0	ug/L	40		95.6	75-125			
Surrogate: 4-Bromofluorobenzene	47.6		ug/L	50		95.3	70-140			
Surrogate: Dibromofluoromethane	46.8		ug/L	50		93.7	70-140			
Surrogate: Toluene-d8	48.2		ug/L	50		96.4	70-140			

LCS Dup (B8H0723-BSD1) Prepared & Analyzed: 08/07/18

Benzene	17.2	0.50	ug/L	20		86.0	75-125	6.49	30	
Ethylbenzene	18.2	0.50	ug/L	20		90.8	75-125	3.48	30	
Methyl-tert-Butyl Ether (MTBE)	38.2	2.0	ug/L	40		95.5	75-125	12.4	30	

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: A5332724
Date Received: 08/06/18
Date Reported: 08/21/18

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 B8H0723 - *** DEFAULT PREP ***</i>										
LCS Dup (B8H0723-BSD1) Continued Prepared & Analyzed: 08/07/18										
Toluene	18.6	0.50	ug/L	20		92.8	75-125	3.40	30	
o-Xylene	18.7	0.50	ug/L	20		93.6	75-125	1.94	30	
m,p-Xylenes	39.2	1.0	ug/L	40		98.0	75-125	2.45	30	
Surrogate: 4-Bromofluorobenzene	48.9		ug/L	50		97.7	70-140			
Surrogate: Dibromofluoromethane	48.9		ug/L	50		97.8	70-140			
Surrogate: Toluene-d8	49.6		ug/L	50		99.3	70-140			
Duplicate (B8H0723-DUP1) Source: 8H06013-01 Prepared & Analyzed: 08/07/18										
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	49.9		ug/L	50		99.9	70-140			
Surrogate: Dibromofluoromethane	53.2		ug/L	50		106	70-140			
Surrogate: Toluene-d8	51.1		ug/L	50		102	70-140			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B8H0822 - *** DEFAULT PREP ***</i>										
Blank (B8H0822-BLK1) Prepared & Analyzed: 08/08/18										
Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	45.9		ug/L	50		91.7	70-130			
LCS (B8H0822-BS1) Prepared & Analyzed: 08/08/18										
Gasoline Range Organics (GRO)	447	20	ug/L	500		89.5	75-125			
Surrogate: a,a,a-Trifluorotoluene	54.5		ug/L	50		109	70-130			
LCS Dup (B8H0822-BSD1) Prepared & Analyzed: 08/08/18										
Gasoline Range Organics (GRO)	466	20	ug/L	500		93.3	75-125	4.15	30	
Surrogate: a,a,a-Trifluorotoluene	56.5		ug/L	50		113	70-130			
Duplicate (B8H0822-DUP1) Source: 8H06013-05 Prepared & Analyzed: 08/08/18										
Gasoline Range Organics (GRO)	838	20	ug/L		840			0.211	30	

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: A5332724
Date Received: 08/06/18
Date Reported: 08/21/18

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit	Notes
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B8H0822 - *** DEFAULT PREP ***</i>										
Duplicate (B8H0822-DUP1) Continued Source: 8H06013-05 Prepared & Analyzed: 08/08/18										
Surrogate: a,a,a-Trifluorotoluene	55.7		ug/L	50		111	70-130			
GRO in Vapor as Hexane - Quality Control										
<i>Batch B8H0822 - *** DEFAULT PREP ***</i>										
Blank (B8H0822-BLK1) Prepared & Analyzed: 08/08/18										
GRO as Hexane	<5.7	5.7	ppmv							
Duplicate (B8H0822-DUP1) Source: 8H06013-05 Prepared & Analyzed: 08/08/18										
GRO as Hexane	204	5.7	ppmv		205			0.422	30	

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: A5332724
Date Received: 08/06/18
Date Reported: 08/21/18

Special Notes

Viorel Vasile
Operations Manager



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

August 21, 2018

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5332725 / 8H06014**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 08/06/18 14:30 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: A5332725
Date Received: 08/06/18
Date Reported: 08/21/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
-----------	---------------	--------	-----	--------------	---------------

GRO in Vapor as Hexane

VES Influent	8H06014-01	Vapor	5	08/06/18 09:46	08/06/18 14:30
VES Effluent	8H06014-02	Vapor	5	08/06/18 09:41	08/06/18 14:30

VOCs BTEX/MTBE Vapor GC/MS

VES Influent	8H06014-01	Vapor	5	08/06/18 09:46	08/06/18 14:30
VES Effluent	8H06014-02	Vapor	5	08/06/18 09:41	08/06/18 14:30

VOCs Gasoline Range Organics Vapor

VES Influent	8H06014-01	Vapor	5	08/06/18 09:46	08/06/18 14:30
VES Effluent	8H06014-02	Vapor	5	08/06/18 09:41	08/06/18 14:30

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: A5332725
Date Received: 08/06/18
Date Reported: 08/21/18
Sampled: 08/06/18
Prepared: 08/07/18
Analyzed: 08/07/18

VES Influent
8H06014-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	0.95	ug/L	0.50	0.30	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	101 %	70-140
Dibromofluoromethane	109 %	70-140
Toluene-d8	103 %	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: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5332725
Date Received: 08/06/18
Date Reported: 08/21/18
Sampled: 08/06/18
Prepared: 08/06/18
Analyzed: 08/06/18

VES Effluent
8H06014-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	<0.25	ug/L	0.50	<0.078	ppmv	0.16
Ethylbenzene	<0.25	ug/L	0.50	<0.058	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<1.0	ug/L	2.0	<0.28	ppmv	0.55
Toluene	<0.25	ug/L	0.50	<0.066	ppmv	0.13
o-Xylene	<0.25	ug/L	0.50	<0.058	ppmv	0.12
m,p-Xylenes	<0.50	ug/L	1.0	<0.12	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	92.5 %	70-140
Dibromofluoromethane	94.1 %	70-140
Toluene-d8	98.1 %	70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332725
Date Received: 08/06/18
Date Reported: 08/21/18
Sampled: 08/06/18
Prepared: 08/08/18
Analyzed: 08/08/18

VES Influent**8H06014-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	200	ug/L	20	49	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		79.5 %			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: A5332725
Date Received: 08/06/18
Date Reported: 08/21/18
Sampled: 08/06/18
Prepared: 08/08/18
Analyzed: 08/08/18

VES Effluent**8H06014-02 (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		95.4 %			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
Method: GRO in Vapor as Hexane

AA Project No: A5332725
Date Received: 08/06/18
Date Reported: 08/21/18
Units: ppmv

Date Sampled:	08/06/18	08/06/18	
Date Prepared:	08/08/18	08/08/18	
Date Analyzed:	08/08/18	08/08/18	
AA ID No:	8H06014-01	8H06014-02	
Client ID No:	VES Influent	VES Effluent	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	48	<5.7	5.7
---------------	----	------	-----

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: A5332725
Date Received: 08/06/18
Date Reported: 08/21/18

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

Batch B8H0633 - *** DEFAULT PREP ***

Blank (B8H0633-BLK1)

Prepared & Analyzed: 08/06/18

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	53.9		ug/L	50		108	70-140			
Surrogate: Dibromofluoromethane	58.8		ug/L	50		118	70-140			
Surrogate: Toluene-d8	52.6		ug/L	50		105	70-140			

LCS (B8H0633-BS1)

Prepared & Analyzed: 08/06/18

Benzene	18.7	0.50	ug/L	20		93.6	75-125			
Ethylbenzene	19.2	0.50	ug/L	20		96.0	75-125			
Methyl-tert-Butyl Ether (MTBE)	38.0	2.0	ug/L	40		95.0	75-125			
Toluene	19.0	0.50	ug/L	20		95.1	75-125			
o-Xylene	19.7	0.50	ug/L	20		98.6	75-125			
m,p-Xylenes	39.0	1.0	ug/L	40		97.5	75-125			

Surrogate: 4-Bromofluorobenzene	51.1		ug/L	50		102	70-140			
Surrogate: Dibromofluoromethane	51.6		ug/L	50		103	70-140			
Surrogate: Toluene-d8	51.4		ug/L	50		103	70-140			

LCS Dup (B8H0633-BSD1)

Prepared: 08/06/18 Analyzed: 08/07/18

Benzene	17.6	0.50	ug/L	20		87.9	75-125	6.28	30	
Ethylbenzene	17.2	0.50	ug/L	20		86.0	75-125	10.9	30	
Methyl-tert-Butyl Ether (MTBE)	38.4	2.0	ug/L	40		95.9	75-125	0.917	30	
Toluene	17.9	0.50	ug/L	20		89.5	75-125	6.07	30	
o-Xylene	18.7	0.50	ug/L	20		93.6	75-125	5.20	30	
m,p-Xylenes	38.3	1.0	ug/L	40		95.6	75-125	1.94	30	

Surrogate: 4-Bromofluorobenzene	46.6		ug/L	50		93.3	70-140			
Surrogate: Dibromofluoromethane	57.1		ug/L	50		114	70-140			
Surrogate: Toluene-d8	47.6		ug/L	50		95.1	70-140			

Batch B8H0723 - *** 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: A5332725
Date Received: 08/06/18
Date Reported: 08/21/18

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

Batch B8H0723 - *** DEFAULT PREP ***

Blank (B8H0723-BLK1)

Prepared & Analyzed: 08/07/18

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	47.0		ug/L	50		94.1	70-140			
Surrogate: Dibromofluoromethane	46.5		ug/L	50		93.1	70-140			
Surrogate: Toluene-d8	48.2		ug/L	50		96.5	70-140			

LCS (B8H0723-BS1)

Prepared & Analyzed: 08/07/18

Benzene	16.1	0.50	ug/L	20		80.6	75-125			
Ethylbenzene	17.5	0.50	ug/L	20		87.6	75-125			
Methyl-tert-Butyl Ether (MTBE)	33.7	2.0	ug/L	40		84.3	75-125			
Toluene	17.9	0.50	ug/L	20		89.7	75-125			
o-Xylene	18.4	0.50	ug/L	20		91.8	75-125			
m,p-Xylenes	38.2	1.0	ug/L	40		95.6	75-125			

Surrogate: 4-Bromofluorobenzene	47.6		ug/L	50		95.3	70-140			
Surrogate: Dibromofluoromethane	46.8		ug/L	50		93.7	70-140			
Surrogate: Toluene-d8	48.2		ug/L	50		96.4	70-140			

LCS Dup (B8H0723-BSD1)

Prepared & Analyzed: 08/07/18

Benzene	17.2	0.50	ug/L	20		86.0	75-125	6.49	30	
Ethylbenzene	18.2	0.50	ug/L	20		90.8	75-125	3.48	30	
Methyl-tert-Butyl Ether (MTBE)	38.2	2.0	ug/L	40		95.5	75-125	12.4	30	
Toluene	18.6	0.50	ug/L	20		92.8	75-125	3.40	30	
o-Xylene	18.7	0.50	ug/L	20		93.6	75-125	1.94	30	
m,p-Xylenes	39.2	1.0	ug/L	40		98.0	75-125	2.45	30	

Surrogate: 4-Bromofluorobenzene	48.9		ug/L	50		97.7	70-140			
Surrogate: Dibromofluoromethane	48.9		ug/L	50		97.8	70-140			
Surrogate: Toluene-d8	49.6		ug/L	50		99.3	70-140			

Duplicate (B8H0723-DUP1)

Source: 8H06013-01 Prepared & Analyzed: 08/07/18

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: A5332725
Date Received: 08/06/18
Date Reported: 08/21/18

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

Batch B8H0723 - *** DEFAULT PREP ***

Duplicate (B8H0723-DUP1) Continued Source: 8H06013-01 Prepared & Analyzed: 08/07/18

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	49.9		ug/L	50		99.9	70-140			
Surrogate: Dibromofluoromethane	53.2		ug/L	50		106	70-140			
Surrogate: Toluene-d8	51.1		ug/L	50		102	70-140			

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

Batch B8H0822 - *** DEFAULT PREP ***

Blank (B8H0822-BLK1) Prepared & Analyzed: 08/08/18

Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	45.9		ug/L	50		91.7	70-130			

LCS (B8H0822-BS1) Prepared & Analyzed: 08/08/18

Gasoline Range Organics (GRO)	447	20	ug/L	500		89.5	75-125			
Surrogate: a,a,a-Trifluorotoluene	54.5		ug/L	50		109	70-130			

LCS Dup (B8H0822-BSD1) Prepared & Analyzed: 08/08/18

Gasoline Range Organics (GRO)	466	20	ug/L	500		93.3	75-125	4.15	30	
Surrogate: a,a,a-Trifluorotoluene	56.5		ug/L	50		113	70-130			

Duplicate (B8H0822-DUP1) Source: 8H06013-05 Prepared & Analyzed: 08/08/18

Gasoline Range Organics (GRO)	838	20	ug/L		840			0.211	30	
Surrogate: a,a,a-Trifluorotoluene	55.7		ug/L	50		111	70-130			

GRO in Vapor as Hexane - Quality Control

Batch B8H0822 - *** DEFAULT PREP ***

Blank (B8H0822-BLK1) Prepared & Analyzed: 08/08/18

GRO as Hexane	<5.7	5.7	ppmv							
---------------	------	-----	------	--	--	--	--	--	--	--

Duplicate (B8H0822-DUP1) Source: 8H06013-05 Prepared & Analyzed: 08/08/18

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: A5332725
Date Received: 08/06/18
Date Reported: 08/21/18

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	RPD Limit	Notes
GRO in Vapor as Hexane - Quality Control										
<i>Batch B8H0822 - *** DEFAULT PREP ***</i>										
Duplicate (B8H0822-DUP1) Continued Source: 8H06013-05 Prepared & Analyzed: 08/08/18										
GRO as Hexane	204	5.7	ppmv		205			0.422	30	

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: A5332725
Date Received: 08/06/18
Date Reported: 08/21/18

Special Notes

Viorel Vasile
Operations Manager



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

August 22, 2018

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5332726 / 8H06015**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 08/06/18 14:30 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,

A handwritten signature in black ink, appearing to read "Viorel Vasile", is written over a horizontal line.

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: A5332726
Date Received: 08/06/18
Date Reported: 08/22/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
-----------	---------------	--------	-----	--------------	---------------

GRO in Vapor as Hexane

Thermox Influent	8H06015-01	Vapor	5	08/06/18 10:25	08/06/18 14:30
Thermox Effluent	8H06015-02	Vapor	5	08/06/18 10:28	08/06/18 14:30
South Trunkline	8H06015-03	Vapor	5	08/06/18 10:09	08/06/18 14:30
East Trunkline	8H06015-04	Vapor	5	08/06/18 10:05	08/06/18 14:30

VOCs BTEX/MTBE Vapor GC/MS

Thermox Influent	8H06015-01	Vapor	5	08/06/18 10:25	08/06/18 14:30
Thermox Effluent	8H06015-02	Vapor	5	08/06/18 10:28	08/06/18 14:30
South Trunkline	8H06015-03	Vapor	5	08/06/18 10:09	08/06/18 14:30
East Trunkline	8H06015-04	Vapor	5	08/06/18 10:05	08/06/18 14:30

VOCs Gasoline Range Organics Vapor

Thermox Influent	8H06015-01	Vapor	5	08/06/18 10:25	08/06/18 14:30
Thermox Effluent	8H06015-02	Vapor	5	08/06/18 10:28	08/06/18 14:30
South Trunkline	8H06015-03	Vapor	5	08/06/18 10:09	08/06/18 14:30
East Trunkline	8H06015-04	Vapor	5	08/06/18 10:05	08/06/18 14:30

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: A5332726
Date Received: 08/06/18
Date Reported: 08/22/18
Sampled: 08/06/18
Prepared: 08/07/18
Analyzed: 08/07/18

**Thermax Influent
8H06015-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	2.8	ug/L	0.50	0.88	ppmv	0.16
Ethylbenzene	1.0	ug/L	0.50	0.23	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	1.1	ug/L	0.50	0.25	ppmv	0.12
m,p-Xylenes	4.0	ug/L	1.0	0.92	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	91.2 %	70-140
Dibromofluoromethane	101 %	70-140
Toluene-d8	98.9 %	70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5332726
Date Received: 08/06/18
Date Reported: 08/22/18
Sampled: 08/06/18
Prepared: 08/07/18
Analyzed: 08/07/18

Thermax Effluent
8H06015-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	<0.25	ug/L	0.50	<0.078	ppmv	0.16
Ethylbenzene	<0.25	ug/L	0.50	<0.058	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<1.0	ug/L	2.0	<0.28	ppmv	0.55
Toluene	<0.25	ug/L	0.50	<0.066	ppmv	0.13
o-Xylene	<0.25	ug/L	0.50	<0.058	ppmv	0.12
m,p-Xylenes	<0.50	ug/L	1.0	<0.12	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	103 %	70-140
Dibromofluoromethane	109 %	70-140
Toluene-d8	102 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332726
Date Received: 08/06/18
Date Reported: 08/22/18
Sampled: 08/06/18
Prepared: 08/07/18
Analyzed: 08/07/18

South Trunkline
8H06015-03 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	0.68	ug/L	0.50	0.21	ppmv	0.16
Ethylbenzene	2.7	ug/L	0.50	0.62	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	5.9	ug/L	0.50	1.6	ppmv	0.13
o-Xylene	4.6	ug/L	0.50	1.1	ppmv	0.12
m,p-Xylenes	11	ug/L	1.0	2.5	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	96.0 %	70-140
Dibromofluoromethane	106 %	70-140
Toluene-d8	102 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332726
Date Received: 08/06/18
Date Reported: 08/22/18
Sampled: 08/06/18
Prepared: 08/07/18
Analyzed: 08/08/18

East Trunkline
8H06015-04 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	9.7	ug/L	0.50	3.0	ppmv	0.16
Ethylbenzene	4.9	ug/L	0.50	1.1	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	4.4	ug/L	0.50	1.0	ppmv	0.12
m,p-Xylenes	24	ug/L	1.0	5.5	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	91.6 %	70-140
Dibromofluoromethane	98.0 %	70-140
Toluene-d8	99.2 %	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: A5332726
Date Received: 08/06/18
Date Reported: 08/22/18
Sampled: 08/06/18
Prepared: 08/08/18
Analyzed: 08/08/18

Thermox Influent
8H06015-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	2900	ug/L	20	710	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		119 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332726
Date Received: 08/06/18
Date Reported: 08/22/18
Sampled: 08/06/18
Prepared: 08/08/18
Analyzed: 08/08/18

Thermox Effluent
8H06015-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	31	ug/L	20	7.6	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		87.0 %			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
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332726
Date Received: 08/06/18
Date Reported: 08/22/18
Sampled: 08/06/18
Prepared: 08/08/18
Analyzed: 08/08/18

South Trunkline
8H06015-03 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	2500	ug/L	20	610	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: 5
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332726
Date Received: 08/06/18
Date Reported: 08/22/18
Sampled: 08/06/18
Prepared: 08/08/18
Analyzed: 08/08/18

East Trunkline**8H06015-04 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	17000	ug/L	20	4200	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		110 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Method: GRO in Vapor as Hexane

AA Project No: A5332726
Date Received: 08/06/18
Date Reported: 08/22/18
Units: ppmv

Date Sampled:	08/06/18	08/06/18	08/06/18	08/06/18
Date Prepared:	08/08/18	08/08/18	08/08/18	08/08/18
Date Analyzed:	08/08/18	08/08/18	08/08/18	08/08/18
AA ID No:	8H06015-01	8H06015-02	8H06015-03	8H06015-04
Client ID No:	Thermox Influent	Thermox Effluent	South Trunkline	East Trunkline
Matrix:	Vapor	Vapor	Vapor	Vapor
Dilution Factor:	1	1	1	5
				MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	710	7.4	620	4200	5.7
---------------	------------	------------	------------	-------------	------------

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: A5332726
Date Received: 08/06/18
Date Reported: 08/22/18

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 B8H0723 - *** DEFAULT PREP ***</i>										
Blank (B8H0723-BLK1)				Prepared & Analyzed: 08/07/18						
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>	47.0		ug/L	50		94.1	70-140			
<i>Surrogate: Dibromofluoromethane</i>	46.5		ug/L	50		93.1	70-140			
<i>Surrogate: Toluene-d8</i>	48.2		ug/L	50		96.5	70-140			
LCS (B8H0723-BS1)				Prepared & Analyzed: 08/07/18						
Benzene	16.1	0.50	ug/L	20		80.6	75-125			
Ethylbenzene	17.5	0.50	ug/L	20		87.6	75-125			
Methyl-tert-Butyl Ether (MTBE)	33.7	2.0	ug/L	40		84.3	75-125			
Toluene	17.9	0.50	ug/L	20		89.7	75-125			
o-Xylene	18.4	0.50	ug/L	20		91.8	75-125			
m,p-Xylenes	38.2	1.0	ug/L	40		95.6	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	47.6		ug/L	50		95.3	70-140			
<i>Surrogate: Dibromofluoromethane</i>	46.8		ug/L	50		93.7	70-140			
<i>Surrogate: Toluene-d8</i>	48.2		ug/L	50		96.4	70-140			
LCS Dup (B8H0723-BSD1)				Prepared & Analyzed: 08/07/18						
Benzene	17.2	0.50	ug/L	20		86.0	75-125	6.49	30	
Ethylbenzene	18.2	0.50	ug/L	20		90.8	75-125	3.48	30	
Methyl-tert-Butyl Ether (MTBE)	38.2	2.0	ug/L	40		95.5	75-125	12.4	30	
Toluene	18.6	0.50	ug/L	20		92.8	75-125	3.40	30	
o-Xylene	18.7	0.50	ug/L	20		93.6	75-125	1.94	30	
m,p-Xylenes	39.2	1.0	ug/L	40		98.0	75-125	2.45	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	48.9		ug/L	50		97.7	70-140			
<i>Surrogate: Dibromofluoromethane</i>	48.9		ug/L	50		97.8	70-140			
<i>Surrogate: Toluene-d8</i>	49.6		ug/L	50		99.3	70-140			
Duplicate (B8H0723-DUP1)				Source: 8H06013-01 Prepared & Analyzed: 08/07/18						

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: A5332726
Date Received: 08/06/18
Date Reported: 08/22/18

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

Batch B8H0723 - *** DEFAULT PREP ***

Duplicate (B8H0723-DUP1) Continued Source: 8H06013-01 Prepared & Analyzed: 08/07/18

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	49.9		ug/L	50		99.9	70-140			
Surrogate: Dibromofluoromethane	53.2		ug/L	50		106	70-140			
Surrogate: Toluene-d8	51.1		ug/L	50		102	70-140			

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

Batch B8H0822 - *** DEFAULT PREP ***

Blank (B8H0822-BLK1) Prepared & Analyzed: 08/08/18

Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	45.9		ug/L	50		91.7	70-130			
LCS (B8H0822-BS1)										Prepared & Analyzed: 08/08/18
Gasoline Range Organics (GRO)	447	20	ug/L	500		89.5	75-125			
Surrogate: a,a,a-Trifluorotoluene	54.5		ug/L	50		109	70-130			
LCS Dup (B8H0822-BSD1)										Prepared & Analyzed: 08/08/18
Gasoline Range Organics (GRO)	466	20	ug/L	500		93.3	75-125	4.15		30
Surrogate: a,a,a-Trifluorotoluene	56.5		ug/L	50		113	70-130			

Duplicate (B8H0822-DUP1) Source: 8H06013-05 Prepared & Analyzed: 08/08/18

Gasoline Range Organics (GRO)	838	20	ug/L			840		0.211		30
Surrogate: a,a,a-Trifluorotoluene	55.7		ug/L	50		111	70-130			

GRO in Vapor as Hexane - Quality Control

Batch B8H0822 - *** DEFAULT PREP ***

Blank (B8H0822-BLK1) Prepared & Analyzed: 08/08/18

GRO as Hexane	<5.7	5.7	ppmv							
Duplicate (B8H0822-DUP1)										Source: 8H06013-05 Prepared & Analyzed: 08/08/18

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: A5332726
Date Received: 08/06/18
Date Reported: 08/22/18

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
GRO in Vapor as Hexane - Quality Control										
<i>Batch B8H0822 - *** DEFAULT PREP ***</i>										
Duplicate (B8H0822-DUP1) Continued Source: 8H06013-05 Prepared & Analyzed: 08/08/18										
GRO as Hexane	204	5.7	ppmv		205			0.422	30	

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: A5332726
Date Received: 08/06/18
Date Reported: 08/22/18

Special Notes

Viorel Vasile
Operations Manager



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

August 27, 2018

Neil Irish

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

**Re : DFSP Norwalk GWETS NPDES Quarterly / 04-NDLA-013
A5332727 / 8H06016**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 08/06/18 14:30 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 Analytix.

Sincerely,

A handwritten signature in black ink, appearing to read 'V. Vasile'.

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332727
Date Received: 08/06/18
Date Reported: 08/27/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
-----------	---------------	--------	-----	--------------	---------------

8260B TPHGASOLINEBTEXOXY

Effluent	8H06016-01	Water	5	08/06/18 10:59	08/06/18 14:30
Effluent-Dup	8H06016-02	Water	5	08/06/18 11:00	08/06/18 14:30

Arsenic Total EPA 200.7

Effluent	8H06016-01	Water	5	08/06/18 10:59	08/06/18 14:30
----------	------------	-------	---	----------------	----------------

BOD SM5210B

Effluent	8H06016-01	Water	5	08/06/18 10:59	08/06/18 14:30
----------	------------	-------	---	----------------	----------------

Copper Dissolved EPA 200.7

Effluent	8H06016-01	Water	5	08/06/18 10:59	08/06/18 14:30
----------	------------	-------	---	----------------	----------------

Copper Total EPA 200.7

Effluent	8H06016-01	Water	5	08/06/18 10:59	08/06/18 14:30
----------	------------	-------	---	----------------	----------------

Diesel Range Organics 8015M

Effluent	8H06016-01	Water	5	08/06/18 10:59	08/06/18 14:30
Effluent-Dup	8H06016-02	Water	5	08/06/18 11:00	08/06/18 14:30

HEM Oil and Grease 1664

Effluent	8H06016-01	Water	5	08/06/18 10:59	08/06/18 14:30
----------	------------	-------	---	----------------	----------------

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Quarterly
Method: General Chemistry Analyses

AA Project No: A5332727
Date Received: 08/06/18
Date Reported: 08/27/18

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MRL
<u>BOD SM5210B (SM5210B) *</u>								
8H06016-01	Effluent	08/06/18	08/08/18	08/13/18	1	<5.0	mg/L	5
<u>HEM Oil and Grease 1664 (EPA 1664)</u>								
8H06016-01	Effluent	08/06/18	08/13/18	08/14/18	1	<5.0	mg/L	10
<u>MBAS SM5540C (SM5540C) *</u>								
8H06016-01	Effluent	08/06/18	08/08/18	08/08/18	1	<0.050	mg/L	0.05
<u>Phenols 420.1 (EPA 420.1) *</u>								
8H06016-01	Effluent	08/06/18	08/09/18	08/09/18	1	<0.15	mg/L	0.3
<u>SS SM2540F (SM2540F)</u>								
8H06016-01	Effluent	08/06/18	08/07/18	08/07/18	1	<0.100	mL/L	0.1
<u>Sulfide SM4500-S=D (SM4500-S=D)</u>								
8H06016-01	Effluent	08/06/18	08/09/18	08/09/18	1	<0.027	mg/L	0.05
<u>TDS SM2540C (SM2540C)</u>								
8H06016-01	Effluent	08/06/18	08/07/18	08/08/18	1	1000	mg/L	10
<u>TSS SM2540D (SM2540D)</u>								
8H06016-01	Effluent	08/06/18	08/13/18	08/13/18	1	<5.0	mg/L	10
<u>Turbidity 180.1 (EPA 180.1)</u>								
8H06016-01	Effluent	08/06/18	08/07/18	08/07/18	1	1.5	NTU	1

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332727
Date Received: 08/06/18
Date Reported: 08/27/18
Units: ug/L

Date Sampled:	08/06/18	08/06/18	
Date Prepared:	08/09/18	08/09/18	
Date Analyzed:	08/09/18	08/09/18	
AA ID No:	8H06016-01	8H06016-02	
Client ID No:	Effluent	Effluent-Dup	
Matrix:	Water	Water	
Dilution Factor:	1	1	MRL

8260B TPHGASOLINEBTEXOXY (EPA 8260B)

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

<u>Surrogates</u>			<u>%REC Limits</u>
4-Bromofluorobenzene	104%	105%	70-140
Dibromofluoromethane	105%	108%	70-140
Toluene-d8	104%	107%	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 Quarterly
Method: Diesel Range Organics by GC/FID

AA Project No: A5332727
Date Received: 08/06/18
Date Reported: 08/27/18
Units: ug/L

Date Sampled:	08/06/18	08/06/18	
Date Prepared:	08/09/18	08/09/18	
Date Analyzed:	08/13/18	08/13/18	
AA ID No:	8H06016-01	8H06016-02	
Client ID No:	Effluent	Effluent-Dup	
Matrix:	Water	Water	
Dilution Factor:	1	1	MRL

Diesel Range Organics 8015M (EPA 8015M)

Diesel Range Organics as Diesel	<60	<60	100
---------------------------------	-----	-----	-----

Surrogates

o-Terphenyl	71%	102%	<u>%REC Limits</u> 50-150
-------------	-----	------	-------------------------------------

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Project Name: DFSP Norwalk GWETS NPDES Quarterly

Method: Dissolved Metals by ICP Atomic Emission Spectroscopy

AA Project No: A5332727

Date Received: 08/06/18

Date Reported: 08/27/18

<u>AA I.D. No.</u>	<u>Client I.D. No.</u>	<u>Sampled</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dilution</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>
<u>Copper Dissolved EPA 200.7 (EPA 200.7)</u>								
8H06016-01	Effluent	08/06/18	08/09/18	08/10/18	1	<0.014	mg/L	0.014

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332727
Date Received: 08/06/18
Date Reported: 08/27/18

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MRL
<u>Arsenic Total EPA 200.7 (EPA 200.7)</u>								
8H06016-01	Effluent	08/06/18	08/09/18	08/10/18	1	<0.0060	mg/L	0.007
<u>Copper Total EPA 200.7 (EPA 200.7)</u>								
8H06016-01	Effluent	08/06/18	08/09/18	08/10/18	1	<0.014	mg/L	0.014

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332727
Date Received: 08/06/18
Date Reported: 08/27/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
General Chemistry Analyses - Quality Control										
<i>Batch B8H0716 - NO PREP</i>										
Blank (B8H0716-BLK1) Prepared & Analyzed: 08/07/18										
Total Settleable Solids	<0.100	0.100	mL/L							
<i>Batch B8H0717 - NO PREP</i>										
Blank (B8H0717-BLK1) Prepared & Analyzed: 08/07/18										
Turbidity	<0.17	0.17	NTU							
Duplicate (B8H0717-DUP1) Source: 8H06016-01 Prepared & Analyzed: 08/07/18										
Turbidity	1.49	0.17	NTU		1.52			1.99	15	
<i>Batch B8H0819 - NO PREP</i>										
Blank (B8H0819-BLK1) Prepared: 08/07/18 Analyzed: 08/08/18										
Total Dissolved Solids	<6.2	6.2	mg/L							
LCS (B8H0819-BS1) Prepared: 08/07/18 Analyzed: 08/08/18										
Total Dissolved Solids	470	6.2	mg/L		500	94.0	80-120			
LCS Dup (B8H0819-BSD1) Prepared: 08/07/18 Analyzed: 08/08/18										
Total Dissolved Solids	520	6.2	mg/L		500	104	80-120	10.1	25	
Duplicate (B8H0819-DUP1) Source: 8H02004-01 Prepared: 08/07/18 Analyzed: 08/08/18										
Total Dissolved Solids	890	31	mg/L						20	
<i>Batch B8H1326 - NO PREP</i>										
Blank (B8H1326-BLK1) Prepared & Analyzed: 08/13/18										
Total Suspended Solids	<5.0	5.0	mg/L							
LCS (B8H1326-BS1) Prepared & Analyzed: 08/13/18										
Total Suspended Solids	49.0	5.0	mg/L		50	98.0	80-120			
LCS Dup (B8H1326-BSD1) Prepared & Analyzed: 08/13/18										
Total Suspended Solids	46.0	5.0	mg/L		50	92.0	80-120	6.32	20	
Duplicate (B8H1326-DUP1) Source: 8H10002-01 Prepared & Analyzed: 08/13/18										
Total Suspended Solids	49.0	5.0	mg/L		49.3			0.671	20	
<i>Batch B8H1329 - NO PREP</i>										
Blank (B8H1329-BLK1) Prepared & Analyzed: 08/09/18										
Sulfide	<0.027	0.027	mg/L							
LCS (B8H1329-BS1) Prepared & Analyzed: 08/09/18										
Sulfide	0.488	0.027	mg/L				80-120		25	

Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332727
Date Received: 08/06/18
Date Reported: 08/27/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
General Chemistry Analyses - Quality Control										
<i>Batch B8H1329 - NO PREP</i>										
LCS Dup (B8H1329-BSD1)				Prepared & Analyzed: 08/09/18						
Sulfide	0.477	0.027	mg/L				80-120	2.28	25	
Matrix Spike (B8H1329-MS1)				Source: 8H06016-01 Prepared & Analyzed: 08/09/18						
Sulfide	0.509	0.027	mg/L		<0.050		75-125		25	
Matrix Spike Dup (B8H1329-MSD1)				Source: 8H06016-01 Prepared & Analyzed: 08/09/18						
Sulfide	0.516	0.027	mg/L		<0.050		75-125	1.37	25	
<i>Batch B8H1709 - NO PREP</i>										
Blank (B8H1709-BLK1)				Prepared: 08/13/18 Analyzed: 08/14/18						
HEM (Oil and Grease)	<5.0	5.0	mg/L							
LCS (B8H1709-BS1)				Prepared: 08/13/18 Analyzed: 08/14/18						
HEM (Oil and Grease)	43.3	5.0	mg/L	40		108	75-125			
LCS Dup (B8H1709-BSD1)				Prepared: 08/13/18 Analyzed: 08/14/18						
HEM (Oil and Grease)	40.6	5.0	mg/L	40		102	75-125	6.44	30	
<i>Batch B8H2214 - *** DEFAULT PREP ***</i>										
Blank (B8H2214-BLK1)				Prepared: 08/08/18 Analyzed: 08/13/18						
Biochemical Oxygen Demand	<5.0	5.0	mg/L							*
LCS (B8H2214-BS1)				Prepared: 08/08/18 Analyzed: 08/13/18						
Biochemical Oxygen Demand	186	5.0	mg/L	200		93.9	80-120		15	*
LCS Dup (B8H2214-BSD1)				Prepared: 08/08/18 Analyzed: 08/13/18						
Biochemical Oxygen Demand	169	5.0	mg/L	200		85.3	80-120	9.58	15	*
Duplicate (B8H2214-DUP1)				Source: 8H06016-01 Prepared: 08/08/18 Analyzed: 08/13/18						
Biochemical Oxygen Demand	<5.0	5.0	mg/L		<5.0				15	*
<i>Batch B8H2215 - NO PREP</i>										
Blank (B8H2215-BLK1)				Prepared & Analyzed: 08/08/18						
Methylene Blue Active Substances	<0.050	0.050	mg/L							*
LCS (B8H2215-BS1)				Prepared & Analyzed: 08/08/18						
Methylene Blue Active Substances	0.472	0.050	mg/L	0.50		94.4	75-125		15	*
LCS Dup (B8H2215-BSD1)				Prepared & Analyzed: 08/08/18						
Methylene Blue Active Substances	0.460	0.050	mg/L	0.50		92.0	75-125	2.58	15	*
Matrix Spike (B8H2215-MS1)				Source: 8H06016-01 Prepared & Analyzed: 08/08/18						

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332727
Date Received: 08/06/18
Date Reported: 08/27/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
General Chemistry Analyses - Quality Control										
<i>Batch B8H2215 - NO PREP</i>										
Matrix Spike (B8H2215-MS1) Continued Source: 8H06016-01 Prepared & Analyzed: 08/08/18 * Methylene Blue Active Substances 0.480 0.050 mg/L 0.50 <0.050 96.0 75-125 15										
Matrix Spike Dup (B8H2215-MSD1) Source: 8H06016-01 Prepared & Analyzed: 08/08/18 * Methylene Blue Active Substances 0.486 0.050 mg/L 0.50 <0.050 97.2 75-125 1.24 15										
<i>Batch B8H2216 - NO PREP</i>										
Blank (B8H2216-BLK1) Prepared & Analyzed: 08/09/18 * Phenolics <0.15 0.15 mg/L										
LCS (B8H2216-BS1) Prepared & Analyzed: 08/09/18 * Phenolics 0.436 0.15 mg/L 0.50 87.2 80-120 15										
LCS Dup (B8H2216-BSD1) Prepared & Analyzed: 08/09/18 * Phenolics 0.456 0.15 mg/L 0.50 91.2 80-120 4.48 15										
Matrix Spike (B8H2216-MS1) Source: 8H06016-01 Prepared & Analyzed: 08/09/18 * Phenolics 0.440 0.15 mg/L 0.50 <0.30 88.0 80-120 15										
Matrix Spike Dup (B8H2216-MSD1) Source: 8H06016-01 Prepared & Analyzed: 08/09/18 * Phenolics 0.439 0.15 mg/L 0.50 <0.30 87.8 80-120 0.228 15										
TPHG/BTEX/Oxygenates by GC/MS - Quality Control										
<i>Batch B8H0906 - EPA 5030B</i>										
Blank (B8H0906-BLK1) Prepared & Analyzed: 08/09/18										
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>	<i>51.2</i>		<i>ug/L</i>	<i>50</i>		<i>102</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>49.7</i>		<i>ug/L</i>	<i>50</i>		<i>99.3</i>	<i>70-140</i>			

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332727
Date Received: 08/06/18
Date Reported: 08/27/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
TPHG/BTEX/Oxygenates by GC/MS - Quality Control										
<i>Batch B8H0906 - EPA 5030B</i>										
Blank (B8H0906-BLK1) Continued										
Prepared & Analyzed: 08/09/18										
<i>Surrogate: Toluene-d8</i>	52.5		ug/L	50		105	70-140			
LCS (B8H0906-BS1)										
Prepared: 08/09/18 Analyzed: 08/10/18										
tert-Amyl Methyl Ether (TAME)	17.3	0.30	ug/L	20		86.4	70-130			
Benzene	17.0	0.20	ug/L	20		85.0	75-125			
tert-Butyl alcohol (TBA)	88.2	7.0	ug/L	100		88.2	70-130			
Diisopropyl ether (DIPE)	17.0	0.50	ug/L	20		85.0	70-130			
Ethylbenzene	19.0	0.20	ug/L	20		94.9	75-125			
Ethyl-tert-Butyl Ether (ETBE)	17.3	0.40	ug/L	20		86.4	70-130			
Gasoline Range Organics (GRO)	458	40	ug/L	500		91.6	70-130			
Methyl-tert-Butyl Ether (MTBE)	35.7	0.40	ug/L	40		89.2	70-135			
Toluene	19.1	0.30	ug/L	20		95.6	75-125			
o-Xylene	19.1	0.30	ug/L	20		95.4	75-125			
m,p-Xylenes	39.5	0.40	ug/L	40		98.8	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	52.5		ug/L	50		105	70-140			
<i>Surrogate: Dibromofluoromethane</i>	45.7		ug/L	50		91.3	70-140			
<i>Surrogate: Toluene-d8</i>	53.2		ug/L	50		106	70-140			
Matrix Spike (B8H0906-MS1)										
Source: 8H06016-01 Prepared & Analyzed: 08/09/18										
tert-Amyl Methyl Ether (TAME)	20.8	0.30	ug/L	20	<2.0	104	70-130			
Benzene	16.7	0.20	ug/L	20	<0.50	83.4	70-130			
tert-Butyl alcohol (TBA)	129	7.0	ug/L	100	<10	129	70-130			
Diisopropyl ether (DIPE)	18.3	0.50	ug/L	20	<2.0	91.7	70-130			
Ethylbenzene	17.9	0.20	ug/L	20	<0.50	89.4	70-130			
Ethyl-tert-Butyl Ether (ETBE)	19.5	0.40	ug/L	20	<2.0	97.6	70-130			
Methyl-tert-Butyl Ether (MTBE)	42.8	0.40	ug/L	40	<2.0	107	70-130			
Toluene	18.2	0.30	ug/L	20	<0.50	90.8	70-130			
o-Xylene	18.4	0.30	ug/L	20	<0.50	91.9	70-130			
m,p-Xylenes	37.0	0.40	ug/L	40	<1.0	92.6	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	51.8		ug/L	50		104	70-140			
<i>Surrogate: Dibromofluoromethane</i>	47.3		ug/L	50		94.6	70-140			
<i>Surrogate: Toluene-d8</i>	51.2		ug/L	50		102	70-140			
Matrix Spike Dup (B8H0906-MSD1)										
Source: 8H06016-01 Prepared & Analyzed: 08/09/18										

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332727
Date Received: 08/06/18
Date Reported: 08/27/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
TPHG/BTEX/Oxygenates by GC/MS - Quality Control										
<i>Batch B8H0906 - EPA 5030B</i>										
tert-Amyl Methyl Ether (TAME)	18.8	0.30	ug/L	20	<2.0	94.0	70-130	10.0	30	
Benzene	16.3	0.20	ug/L	20	<0.50	81.6	70-130	2.18	30	
tert-Butyl alcohol (TBA)	118	7.0	ug/L	100	<10	118	70-130	8.91	30	
Diisopropyl ether (DIPE)	17.3	0.50	ug/L	20	<2.0	86.3	70-130	6.07	30	
Ethylbenzene	17.4	0.20	ug/L	20	<0.50	86.8	70-130	2.95	30	
Ethyl-tert-Butyl Ether (ETBE)	18.1	0.40	ug/L	20	<2.0	90.4	70-130	7.61	30	
Methyl-tert-Butyl Ether (MTBE)	39.2	0.40	ug/L	40	<2.0	98.0	70-130	8.78	30	
Toluene	17.9	0.30	ug/L	20	<0.50	89.6	70-130	1.39	30	
o-Xylene	17.3	0.30	ug/L	20	<0.50	86.6	70-130	5.94	30	
m,p-Xylenes	35.3	0.40	ug/L	40	<1.0	88.3	70-130	4.75	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>51.1</i>		<i>ug/L</i>	<i>50</i>		<i>102</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>46.3</i>		<i>ug/L</i>	<i>50</i>		<i>92.5</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>52.4</i>		<i>ug/L</i>	<i>50</i>		<i>105</i>	<i>70-140</i>			
Diesel Range Organics by GC/FID - Quality Control										
<i>Batch B8H0901 - EPA 3510C</i>										
Blank (B8H0901-BLK1)										Prepared: 08/09/18 Analyzed: 08/13/18
Diesel Range Organics as Diesel	<60	60	ug/L							
<i>Surrogate: o-Terphenyl</i>	<i>39.4</i>		<i>ug/L</i>	<i>40</i>		<i>98.6</i>	<i>50-150</i>			
LCS (B8H0901-BS1)										Prepared: 08/09/18 Analyzed: 08/13/18
Diesel Range Organics as Diesel	636	60	ug/L	800		79.5	75-125		30	
<i>Surrogate: o-Terphenyl</i>	<i>50.0</i>		<i>ug/L</i>	<i>40</i>		<i>125</i>	<i>50-150</i>			
LCS Dup (B8H0901-BSD1)										Prepared: 08/09/18 Analyzed: 08/13/18
Diesel Range Organics as Diesel	666	60	ug/L	800		83.2	75-125	4.63	30	
<i>Surrogate: o-Terphenyl</i>	<i>50.5</i>		<i>ug/L</i>	<i>40</i>		<i>126</i>	<i>50-150</i>			
Dissolved Metals by ICP Atomic Emission Spectroscopy - Quality Control										
<i>Batch B8H0910 - EPA 200.7</i>										
Blank (B8H0910-BLK1)										Prepared: 08/09/18 Analyzed: 08/10/18
Copper	<0.014	0.014	mg/L							
LCS (B8H0910-BS1)										Prepared: 08/09/18 Analyzed: 08/10/18
Copper	0.981	0.014	mg/L	1.0		98.1	80-120		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 Quarterly

AA Project No: A5332727
Date Received: 08/06/18
Date Reported: 08/27/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Dissolved Metals by ICP Atomic Emission Spectroscopy - Quality Control										
<i>Batch B8H0910 - EPA 200.7</i>										
LCS Dup (B8H0910-BSD1) Prepared: 08/09/18 Analyzed: 08/10/18										
Copper	1.00	0.014	mg/L	1.0		100	80-120	2.25	20	
Total Metals by ICP Atomic Emission Spectroscopy - Quality Control										
<i>Batch B8H0910 - EPA 200.7</i>										
Blank (B8H0910-BLK1) Prepared: 08/09/18 Analyzed: 08/10/18										
Arsenic	<0.0060	0.0060	mg/L							
Copper	<0.014	0.014	mg/L							
LCS (B8H0910-BS1) Prepared: 08/09/18 Analyzed: 08/10/18										
Arsenic	1.02	0.0060	mg/L	1.0		102	80-120		20	
Copper	0.981	0.014	mg/L	1.0		98.1	80-120		20	
LCS Dup (B8H0910-BSD1) Prepared: 08/09/18 Analyzed: 08/10/18										
Arsenic	1.04	0.0060	mg/L	1.0		104	80-120	2.23	20	
Copper	1.00	0.014	mg/L	1.0		100	80-120	2.25	20	
Matrix Spike (B8H0910-MS1) Source: 8H06016-01 Prepared: 08/09/18 Analyzed: 08/10/18										
Arsenic	1.01	0.0060	mg/L	1.0	<0.0070	101	75-125		20	
Copper	1.09	0.014	mg/L	1.0	<0.014	109	75-125		20	
Matrix Spike Dup (B8H0910-MSD1) Source: 8H06016-01 Prepared: 08/09/18 Analyzed: 08/10/18										
Arsenic	1.06	0.0060	mg/L	1.0	<0.0070	106	75-125	5.03	20	
Copper	1.15	0.014	mg/L	1.0	<0.014	115	75-125	5.98	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 Quarterly

AA Project No: A5332727
Date Received: 08/06/18
Date Reported: 08/27/18

Special Notes

[1] = * : Subcontracted to a DOHS State-Certified Laboratory

A handwritten signature in black ink, appearing to read 'VA'.

Viorel Vasile
Operations Manager



American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

American Analytics
9765 Eton Avenue
Chatsworth, CA 91311-4306

Number of Pages 7
Date Received 08/07/2018
Date Reported 08/14/2018

Telephone: (818) 998-5547
Attention: Viorel Vasile

Job Number	Order Date	Client
93537	08/07/2018	AA

Project ID: A5332727/8H06016
Project Name: PO# SUB03610-A5332727

Enclosed please find results of analyses of 1 water sample which was analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____

Approved By: _____

Cyrus Razmara, Ph.D.
Laboratory Director

ACTL



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311
Tel: 818-990-5547 FAX: 818-908-7256

93537

AA CDC No

70052045

Page 1 of 1

Client: AMERICAN ANALYTICS Project Name / No.: AS332727 / 8406016 Sampler's Name: _____
 Project Manager: Vicente Vazquez Site Address: _____ Sampler's Signature: _____
 Phone: _____ City: _____ P.O. No.: SA332727-AS332727
 Fax: _____ State & Zip: _____ 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
					①	②	③	④	⑤	
8406016-01	8/6/18	10SA	Water	2	X	X	X			By SM 521013 SM 55400 EPA-AD011
										Not used
										Thank you

Relinquished by	Date	Time	Received by	Date	Time
J. Umang	08/07/18	0910	Adin		
Relinquished by			Received by		
Relinquished by			Received by		

Note: By relinquishing samples to American Analytical, 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 Analytical.



American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
 Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

COOLER RECEIPT FORM

Client Name: <u>American Analy.</u>			
Project Name: _____			
AETL Job Number: <u>93537</u>			
Date Received: <u>08/07/18</u>		Received by: <u>A. Jin</u>	
Carrier: <input type="checkbox"/> AETL Courier <input checked="" type="checkbox"/> Client <input type="checkbox"/> GSO <input type="checkbox"/> FedEx <input type="checkbox"/> UPS			
Others: _____			
Samples were received in: <input checked="" type="checkbox"/> Cooler (<u>1</u>) <input type="checkbox"/> Other (Specify): _____			
Inside temperature of shipping container No 1: <u>3.3</u> , No 2: _____, No 3: _____			
Type of sample containers: <input type="checkbox"/> VOA, <input checked="" type="checkbox"/> Glass bottles, <input type="checkbox"/> Wide mouth jars, <input checked="" type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify): _____			
How are samples preserved: <input type="checkbox"/> None, <input checked="" type="checkbox"/> Ice, <input type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice			
<input type="checkbox"/> None, <input type="checkbox"/> HNO ₃ , <input type="checkbox"/> NaOH, <input type="checkbox"/> ZnOAc, <input type="checkbox"/> HCl, <input type="checkbox"/> Na ₂ S ₂ O ₃ , <input type="checkbox"/> MeOH <input type="checkbox"/> Other (Specify): <u>H₂SO₄</u>			
	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	Y		
2. Are the Sample labels legible?	Y		
3. Do samples match the COC?	Y		
4. Are the required analyses clear?	Y		
5. Is there enough samples for required analysis?	Y		
6. Are samples sealed with evidence tape?		N	
7. Are sample containers in good condition?	Y		
8. Are samples preserved?	Y		
9. Are samples preserved properly for the intended analysis?	Y		
10. Are the VOAs free of headspace?	NA		
11. Are the jars free of headspace?	N		

Explain all "No" answers for above questions:



American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181

Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Page: 1 A

Ordered By

American Analytics
9765 Eton Avenue
Chatsworth, CA 91311-4306

Project ID: A5332727/8H06016
Date Received 08/07/2018
Date Reported 08/14/2018

Telephone: (818)998-5547
Attention: Viorel Vasile

Job Number	Order Date	Client
93537	08/07/2018	AA

CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 1 samples with the following specification on 08/07/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers	
93537.01	8H06016-01	08/06/2018	Aqueous	2	
Method ^	Submethod	Req Date	Priority	TAT	Units
420.1		08/14/2018	2	Normal	mg/L
SM-5540C		08/14/2018	2	Normal	mg/L
SM5210B		08/14/2018	2	Normal	mg/L

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Checked By: _____

Approved By: _____

Cyrus Razmara, Ph.D.
Laboratory Director



American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

ANALYTICAL RESULTS

Ordered By

American Analytics
9765 Eton Avenue
Chatsworth, CA 91311-4306

Telephone: (818)998-5547

Attn: Viorel Vasile

Page: 2

Project ID: A5332727/8H06016

Project Name: PO# SUB03610-A5332727

AETL Job Number	Submitted	Client
93537	08/07/2018	AA

Method: 420.1, Phenolics, Total Recoverable, Spectrophotometric, Manual

QC Batch No: PH080918-1

Our Lab I.D.		Method Blank	93537.01			
Client Sample I.D.			8H06016-01			
Date Sampled			08/06/2018			
Date Prepared		08/09/2018	08/09/2018			
Preparation Method		420.1	420.1			
Date Analyzed		08/09/2018	08/09/2018			
Matrix		Aqueous	Aqueous			
Units		mg/L	mg/L			
Dilution Factor		1	1			
Analytes	MDL	PQL	Results	Results		
Phenolic compounds as phenol	0.15	0.30	ND	ND		



American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

ANALYTICAL RESULTS

Ordered By

American Analytics
9765 Eton Avenue
Chatsworth, CA 91311-4306

Telephone: (818)998-5547

Attn: Viorel Vasile

Page: 3

Project ID: A5332727/8H06016

Project Name: PO# SUB03610-A5332727

AETL Job Number	Submitted	Client
93537	08/07/2018	AA

Method: SM-5540C, Methylene Blue Active Substances (MBAS)

QC Batch No: MB080718-1

Our Lab I.D.		Method Blank	93537.01			
Client Sample I.D.			8H06016-01			
Date Sampled			08/06/2018			
Date Prepared		08/08/2018	08/08/2018			
Preparation Method		SM5540C	SM5540C			
Date Analyzed		08/08/2018	08/08/2018			
Matrix		Aqueous	Aqueous			
Units		mg/L	mg/L			
Dilution Factor		1	1			
Analytes	MDL	PQL	Results	Results		
Surfactants (MBAS)	0.05	0.05	ND	ND		



American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

ANALYTICAL RESULTS

Ordered By

American Analytics
9765 Eton Avenue
Chatsworth, CA 91311-4306

Telephone: (818)998-5547

Attn: Viorel Vasile

Page: 4

Project ID: A5332727/8H06016

Project Name: PO# SUB03610-A5332727

AETL Job Number	Submitted	Client
93537	08/07/2018	AA

Method: SM5210B, Biochemical Oxygen Demand 5 days, @ 20C (Standard Methods)

QC Batch No: BO080818-1

Our Lab I.D.		Method Blank	93537.01			
Client Sample I.D.			8H06016-01			
Date Sampled			08/06/2018			
Date Prepared		08/08/2018	08/08/2018			
Preparation Method		SM5210B	SM5210B			
Date Analyzed		08/13/2018	08/13/2018			
Matrix		Aqueous	Aqueous			
Units		mg/L	mg/L			
Dilution Factor		1	1			
Analytes	MDL	PQL	Results	Results		
Biochemical Oxygen Demand (BOD)	5.0	5.0	ND	ND		



American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

QUALITY CONTROL RESULTS

Ordered By

American Analytics
9765 Eton Avenue
Chatsworth, CA 91311-4306

Telephone: (818)998-5547

Attn: Viorel Vasile

Page: 5

Project ID: A5332727/8H06016

Project Name: PO# SUB03610-A5332727

AETL Job Number	Submitted	Client
93537	08/07/2018	AA

Method: 420.1, Phenolics, Total Recoverable, Spectrophotometric, Manual

QC Batch No: PH080918-1; Dup or Spiked Sample: 93537.01; LCS: Clean Water; QC Prepared: 08/09/2018; QC Analyzed: 08/09/2018;
Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Phenol	0.00	0.500	0.440	88.0	0.500	0.439	87.8	<1	80-120	<15

QC Batch No: PH080918-1; Dup or Spiked Sample: 93537.01; LCS: Clean Water; QC Prepared: 08/09/2018; QC Analyzed: 08/09/2018;
Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Phenol	0.500	0.436	87.2	0.500	0.456	91.2	4.5	80-120	<20



American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

QUALITY CONTROL RESULTS

Ordered By

American Analytics
9765 Eton Avenue
Chatsworth, CA 91311-4306

Telephone: (818)998-5547

Attn: Viorel Vasile

Page: 6

Project ID: A5332727/8H06016

Project Name: PO# SUB03610-A5332727

AETL Job Number	Submitted	Client
93537	08/07/2018	AA

Method: SM-5540C, Methylene Blue Active Substances (MBAS)

QC Batch No: MB080718-1; Dup or Spiked Sample: 93537.01; LCS: Clean Water; QC Prepared: 08/08/2018; QC Analyzed: 08/08/2018;
Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Surfactants (MBAS)	0.00	0.500	0.480	96.0	0.500	0.486	97.2	1.2	80-120	<15

QC Batch No: MB080718-1; Dup or Spiked Sample: 93537.01; LCS: Clean Water; QC Prepared: 08/08/2018; QC Analyzed: 08/08/2018;
Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Surfactants (MBAS)	0.500	0.472	94.4	0.500	0.460	92.0	2.6	80-120	<15



American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
 Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

QUALITY CONTROL RESULTS

Ordered By

American Analytics
 9765 Eton Avenue
 Chatsworth, CA 91311-4306

Telephone: (818)998-5547

Attn: Viorel Vasile

Page: 7

Project ID: A5332727/8H06016

Project Name: PO# SUB03610-A5332727

AETL Job Number	Submitted	Client
93537	08/07/2018	AA

Method: SM5210B, Biochemical Oxygen Demand 5 days, @ 20C (Standard Methods)

QC Batch No: BO080818-1; Dup or Spiked Sample: 93537.01; LCS: Clean Water; LCS Prepared: 08/08/2018; LCS Analyzed: 08/13/2018;
 Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Biochemical Oxygen Demand (BOD)	ND	ND	<1	<15						

QC Batch No: BO080818-1; Dup or Spiked Sample: 93537.01; LCS: Clean Water; LCS Prepared: 08/08/2018; LCS Analyzed: 08/13/2018;
 Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Biochemical Oxygen Demand (BOD)	198	186	93.9	198	169	85.6	9.2	80-120	<15	



American Environmental Testing Laboratory Inc.

2834 & 2908 North Ngomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Data Qualifiers and Descriptors

Data Qualifier:

- #: Recovery is not within acceptable control limits.
- *: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

Definition:

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



American Environmental Testing Laboratory Inc.

2831 & 2908 North Naomi Street, Burbank, CA 91504 • DQHS NO: 1541, LACSD NO: 10181
Tel: (888) 388-AEPL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference



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

August 22, 2018

Neil Irish

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

**Re : DFSP Norwalk GWETS NPDES Monthly / 04-NDLA-013
A5332728 / 8H06017**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 08/06/18 14:30 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: A5332728
Date Received: 08/06/18
Date Reported: 08/22/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
-----------	---------------	--------	-----	--------------	---------------

8260B TPHGASOLINEBTEXOXY

Surge Tank	8H06017-01	Water	5	08/06/18 11:27	08/06/18 14:30
After GAC-1	8H06017-02	Water	5	08/06/18 11:16	08/06/18 14:30
After GAC-2	8H06017-03	Water	5	08/06/18 11:12	08/06/18 14:30

Arsenic Total EPA 200.7

Surge Tank	8H06017-01	Water	5	08/06/18 11:27	08/06/18 14:30
After Zeolite Bed-1	8H06017-04	Water	5	08/06/18 11:05	08/06/18 14:30
After Zeolite Bed-2	8H06017-05	Water	5	08/06/18 11:04	08/06/18 14:30

Copper Dissolved EPA 200.7

Z-AAL-FE_Influent	8H06017-06	Water	5	08/06/18 11:08	08/06/18 14:30
-------------------	------------	-------	---	----------------	----------------

Copper Total EPA 200.7

Z-AAL-FE_Influent	8H06017-06	Water	5	08/06/18 11:08	08/06/18 14:30
-------------------	------------	-------	---	----------------	----------------

Diesel Range Organics 8015M

Surge Tank	8H06017-01	Water	5	08/06/18 11:27	08/06/18 14:30
After GAC-1	8H06017-02	Water	5	08/06/18 11:16	08/06/18 14:30
After GAC-2	8H06017-03	Water	5	08/06/18 11:12	08/06/18 14:30

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
Method: TPHG/BTEX/Oxygenates by GC/MS

AA Project No: A5332728
Date Received: 08/06/18
Date Reported: 08/22/18
Units: ug/L

Date Sampled:	08/06/18	08/06/18	08/06/18		
Date Prepared:	08/09/18	08/09/18	08/09/18		
Date Analyzed:	08/09/18	08/09/18	08/09/18		
AA ID No:	8H06017-01	8H06017-02	8H06017-03		
Client ID No:	Surge Tank	After GAC-1	After GAC-2		
Matrix:	Water	Water	Water		
Dilution Factor:	1	1	1	MDL	MRL

8260B TPH GASOLINE BTEX OXY (EPA 8260B)

tert-Amyl Methyl Ether (TAME)	<0.30	<0.30	<0.30	0.30	2.0
Benzene	3.1	<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	0.49 J	0.69 J	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	106%	107%	107%	70-140
Dibromofluoromethane	110%	107%	107%	70-140
Toluene-d8	106%	106%	108%	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: A5332728
Date Received: 08/06/18
Date Reported: 08/22/18
Units: ug/L

Date Sampled:	08/06/18	08/06/18	08/06/18		
Date Prepared:	08/09/18	08/09/18	08/09/18		
Date Analyzed:	08/13/18	08/13/18	08/13/18		
AA ID No:	8H06017-01	8H06017-02	8H06017-03		
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	<60	<60	<60	60	100
---------------------------------	-----	-----	-----	----	-----

Surrogates

o-Terphenyl	76%	81%	71%	<u>%REC Limits</u>	50-150
-------------	-----	-----	-----	---------------------------	--------

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH) **AA Project No:** A5332728
Project No: 04-NDLA-013 **Date Received:** 08/06/18
Project Name: DFSP Norwalk GWETS NPDES Monthly **Date Reported:** 08/22/18
Method: Dissolved Metals by ICP Atomic Emission Spectroscopy

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MDL	MRL
<u>Copper Dissolved EPA 200.7 (EPA 200.7)</u>									
8H06017-06	Z-AAL-FE_Influent	08/06/18	08/09/18	08/10/18	1	<0.014	mg/L	0.014	0.014

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: A5332728
Date Received: 08/06/18
Date Reported: 08/22/18

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>									
8H06017-01	Surge Tank	08/06/18	08/09/18	08/10/18	1	0.031	mg/L	0.006	0.007
8H06017-04	After Zeolite Bed-1	08/06/18	08/09/18	08/10/18	1	0.020	mg/L	0.006	0.007
8H06017-05	After Zeolite Bed-2	08/06/18	08/09/18	08/10/18	1	0.018	mg/L	0.006	0.007
<u>Copper Total EPA 200.7 (EPA 200.7)</u>									
8H06017-06	Z-AAL-FE_Influent	08/06/18	08/09/18	08/10/18	1	<0.014	mg/L	0.014	0.014

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: A5332728
Date Received: 08/06/18
Date Reported: 08/22/18

Analyte	Reporting Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
---------	------------------	-----------------	-------	-------------	---------------	-----------	-------------	---------	-----------	-------

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

Batch B8H0906 - EPA 5030B

Blank (B8H0906-BLK1)

Prepared & Analyzed: 08/09/18

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	51.2		ug/L	50	102	70-140
Surrogate: Dibromofluoromethane	49.7		ug/L	50	99.3	70-140
Surrogate: Toluene-d8	52.5		ug/L	50	105	70-140

LCS (B8H0906-BS1)

Prepared: 08/09/18 Analyzed: 08/10/18

tert-Amyl Methyl Ether (TAME)	17.3	0.30	ug/L	20	86.4	70-130
Benzene	17.0	0.20	ug/L	20	85.0	75-125
tert-Butyl alcohol (TBA)	88.2	7.0	ug/L	100	88.2	70-130
Diisopropyl ether (DIPE)	17.0	0.50	ug/L	20	85.0	70-130
Ethylbenzene	19.0	0.20	ug/L	20	94.9	75-125
Ethyl-tert-Butyl Ether (ETBE)	17.3	0.40	ug/L	20	86.4	70-130
Gasoline Range Organics (GRO)	458	40	ug/L	500	91.6	70-130
Methyl-tert-Butyl Ether (MTBE)	35.7	0.40	ug/L	40	89.2	70-135
Toluene	19.1	0.30	ug/L	20	95.6	75-125
o-Xylene	19.1	0.30	ug/L	20	95.4	75-125
m,p-Xylenes	39.5	0.40	ug/L	40	98.8	70-130

Surrogate: 4-Bromofluorobenzene	52.5		ug/L	50	105	70-140
Surrogate: Dibromofluoromethane	45.7		ug/L	50	91.3	70-140
Surrogate: Toluene-d8	53.2		ug/L	50	106	70-140

Matrix Spike (B8H0906-MS1) Source: 8H06016-01 Prepared & Analyzed: 08/09/18

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: A5332728
Date Received: 08/06/18
Date Reported: 08/22/18

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
---------	------------------	-------	-------	-------------	---------------	-----------	-------	-----	-----------	-------

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

Batch B8H0906 - EPA 5030B

Matrix Spike (B8H0906-MS1) Continued Source: 8H06016-01 Prepared & Analyzed: 08/09/18

tert-Amyl Methyl Ether (TAME)	20.8	0.30	ug/L	20	104	70-130				
Benzene	16.7	0.20	ug/L	20	83.4	70-130				
tert-Butyl alcohol (TBA)	129	7.0	ug/L	100	129	70-130				
Diisopropyl ether (DIPE)	18.3	0.50	ug/L	20	91.7	70-130				
Ethylbenzene	17.9	0.20	ug/L	20	89.4	70-130				
Ethyl-tert-Butyl Ether (ETBE)	19.5	0.40	ug/L	20	97.6	70-130				
Methyl-tert-Butyl Ether (MTBE)	42.8	0.40	ug/L	40	107	70-130				
Toluene	18.2	0.30	ug/L	20	90.8	70-130				
o-Xylene	18.4	0.30	ug/L	20	91.9	70-130				
m,p-Xylenes	37.0	0.40	ug/L	40	92.6	70-130				

Surrogate: 4-Bromofluorobenzene	51.8		ug/L	50	104	70-140				
Surrogate: Dibromofluoromethane	47.3		ug/L	50	94.6	70-140				
Surrogate: Toluene-d8	51.2		ug/L	50	102	70-140				

Matrix Spike Dup (B8H0906-MSD1) Source: 8H06016-01 Prepared & Analyzed: 08/09/18

tert-Amyl Methyl Ether (TAME)	18.8	0.30	ug/L	20	94.0	70-130	10.0	30		
Benzene	16.3	0.20	ug/L	20	81.6	70-130	2.18	30		
tert-Butyl alcohol (TBA)	118	7.0	ug/L	100	118	70-130	8.91	30		
Diisopropyl ether (DIPE)	17.3	0.50	ug/L	20	86.3	70-130	6.07	30		
Ethylbenzene	17.4	0.20	ug/L	20	86.8	70-130	2.95	30		
Ethyl-tert-Butyl Ether (ETBE)	18.1	0.40	ug/L	20	90.4	70-130	7.61	30		
Methyl-tert-Butyl Ether (MTBE)	39.2	0.40	ug/L	40	98.0	70-130	8.78	30		
Toluene	17.9	0.30	ug/L	20	89.6	70-130	1.39	30		
o-Xylene	17.3	0.30	ug/L	20	86.6	70-130	5.94	30		
m,p-Xylenes	35.3	0.40	ug/L	40	88.3	70-130	4.75	30		

Surrogate: 4-Bromofluorobenzene	51.1		ug/L	50	102	70-140				
Surrogate: Dibromofluoromethane	46.3		ug/L	50	92.5	70-140				
Surrogate: Toluene-d8	52.4		ug/L	50	105	70-140				

Diesel Range Organics by GC/FID - Quality Control

Batch B8H0901 - EPA 3510C

Blank (B8H0901-BLK1)

Prepared: 08/09/18 Analyzed: 08/13/18

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: A5332728
Date Received: 08/06/18
Date Reported: 08/22/18

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
---------	------------------	-------	-------	-------------	---------------	-----------	--------	-----	-----------	-------

Diesel Range Organics by GC/FID - Quality Control

Batch B8H0901 - EPA 3510C

Blank (B8H0901-BLK1) Continued

Prepared: 08/09/18 Analyzed: 08/13/18

Diesel Range Organics as Diesel	<60	60	ug/L							
---------------------------------	-----	----	------	--	--	--	--	--	--	--

Surrogate: o-Terphenyl	39.4		ug/L	40		98.6	50-150			
------------------------	------	--	------	----	--	------	--------	--	--	--

LCS (B8H0901-BS1)

Prepared: 08/09/18 Analyzed: 08/13/18

Diesel Range Organics as Diesel	636	60	ug/L	800		79.5	75-125		30	
---------------------------------	------------	----	------	-----	--	------	--------	--	----	--

Surrogate: o-Terphenyl	50.0		ug/L	40		125	50-150			
------------------------	------	--	------	----	--	-----	--------	--	--	--

LCS Dup (B8H0901-BSD1)

Prepared: 08/09/18 Analyzed: 08/13/18

Diesel Range Organics as Diesel	666	60	ug/L	800		83.2	75-125	4.63	30	
---------------------------------	------------	----	------	-----	--	------	--------	------	----	--

Surrogate: o-Terphenyl	50.5		ug/L	40		126	50-150			
------------------------	------	--	------	----	--	-----	--------	--	--	--

Dissolved Metals by ICP Atomic Emission Spectroscopy - Quality Control

Batch B8H0910 - EPA 200.7

Blank (B8H0910-BLK1)

Prepared: 08/09/18 Analyzed: 08/10/18

Copper	<0.014	0.014	mg/L							
--------	--------	-------	------	--	--	--	--	--	--	--

LCS (B8H0910-BS1)

Prepared: 08/09/18 Analyzed: 08/10/18

Copper	0.981	0.014	mg/L	1.0		98.1	80-120		20	
--------	--------------	-------	------	-----	--	------	--------	--	----	--

LCS Dup (B8H0910-BSD1)

Prepared: 08/09/18 Analyzed: 08/10/18

Copper	1.00	0.014	mg/L	1.0		100	80-120	2.25	20	
--------	-------------	-------	------	-----	--	-----	--------	------	----	--

Total Metals by ICP Atomic Emission Spectroscopy - Quality Control

Batch B8H0910 - EPA 200.7

Blank (B8H0910-BLK1)

Prepared: 08/09/18 Analyzed: 08/10/18

Copper	<0.014	0.014	mg/L							
--------	--------	-------	------	--	--	--	--	--	--	--

Arsenic	<0.0060	0.0060	mg/L							
---------	---------	--------	------	--	--	--	--	--	--	--

LCS (B8H0910-BS1)

Prepared: 08/09/18 Analyzed: 08/10/18

Copper	0.981	0.014	mg/L	1.0		98.1	80-120		20	
--------	--------------	-------	------	-----	--	------	--------	--	----	--

Arsenic	1.02	0.0060	mg/L	1.0		102	80-120		20	
---------	-------------	--------	------	-----	--	-----	--------	--	----	--

LCS Dup (B8H0910-BSD1)

Prepared: 08/09/18 Analyzed: 08/10/18

Copper	1.00	0.014	mg/L	1.0		100	80-120	2.25	20	
--------	-------------	-------	------	-----	--	-----	--------	------	----	--

Arsenic	1.04	0.0060	mg/L	1.0		104	80-120	2.23	20	
---------	-------------	--------	------	-----	--	-----	--------	------	----	--

Matrix Spike (B8H0910-MS1)

Source: 8H06016-01 Prepared: 08/09/18 Analyzed: 08/10/18

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: A5332728
Date Received: 08/06/18
Date Reported: 08/22/18

Analyte	Reporting Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	------------------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Total Metals by ICP Atomic Emission Spectroscopy - Quality Control

Batch B8H0910 - EPA 200.7

Matrix Spike (B8H0910-MS1) Continued Source: 8H06016-01 Prepared: 08/09/18 Analyzed: 08/10/18

Copper	1.09	0.014	mg/L	1.0	109	75-125		20		
Arsenic	1.01	0.0060	mg/L	1.0	101	75-125		20		

Matrix Spike Dup (B8H0910-MSD1) Source: 8H06016-01 Prepared: 08/09/18 Analyzed: 08/10/18

Copper	1.15	0.014	mg/L	1.0	115	75-125	5.98	20		
Arsenic	1.06	0.0060	mg/L	1.0	106	75-125	5.03	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: A5332728
Date Received: 08/06/18
Date Reported: 08/22/18

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

September 12, 2018

Neil Irish

The Source Group, Inc. (SH)

1962 Freeman Ave.

Signal Hill, CA 90755

**Re : DFSP Norwalk GWETS NPDES Monthly / 04-NDLA-013
A5332746 / 8H16004**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 08/15/18 16:02 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 Analytix.

Sincerely,

A handwritten signature in black ink, appearing to read 'V. Vasile'.

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: A5332746
Date Received: 08/15/18
Date Reported: 09/12/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
-----------	---------------	--------	-----	--------------	---------------

Arsenic Total EPA 200.7

Effluent	8H16004-01	Water	5	08/13/18 11:30	08/15/18 16:02
----------	------------	-------	---	----------------	----------------

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: A5332746
Date Received: 08/15/18
Date Reported: 09/12/18

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MRL
<u>Arsenic Total EPA 200.7 (EPA 200.7)</u>								
8H16004-01	Effluent	08/13/18	08/20/18	08/21/18	1	<0.0060	mg/L	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: A5332746
Date Received: 08/15/18
Date Reported: 09/12/18

Analyte	Reporting Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Metals by ICP Atomic Emission Spectroscopy - Quality Control										
<i>Batch B8H2023 - EPA 200.7</i>										
Blank (B8H2023-BLK1)				Prepared: 08/20/18 Analyzed: 08/21/18						
Arsenic	<0.0060	0.0060	mg/L							
LCS (B8H2023-BS1)				Prepared: 08/20/18 Analyzed: 08/21/18						
Arsenic	1.04	0.0060	mg/L	1.0	104	80-120			20	
LCS Dup (B8H2023-BSD1)				Prepared: 08/20/18 Analyzed: 08/21/18						
Arsenic	1.05	0.0060	mg/L	1.0	105	80-120	0.763		20	
Matrix Spike (B8H2023-MS1)				Source: 8H16004-01 Prepared: 08/20/18 Analyzed: 08/21/18						
Arsenic	0.875	0.0060	mg/L	1.0	<0.0070	87.5	75-125		20	
Matrix Spike Dup (B8H2023-MSD1)				Source: 8H16004-01 Prepared: 08/20/18 Analyzed: 08/21/18						
Arsenic	0.928	0.0060	mg/L	1.0	<0.0070	92.8	75-125	5.84	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: A5332746
Date Received: 08/15/18
Date Reported: 09/12/18

Special Notes

A handwritten signature in black ink, appearing to be 'AV' or similar initials.

Viorel Vasile
Operations Manager



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

September 12, 2018

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

**Re : DFSP Norwalk / 091-NDLA
A5332761 / 8H23002**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 08/23/18 14:05 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 Analytix.

Sincerely,

A handwritten signature in black ink, appearing to be 'V. Vasile'.

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NDLA
Project Name: DFSP Norwalk

AA Project No: A5332761
Date Received: 08/23/18
Date Reported: 09/12/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
<u>Alkalinity SM2320B</u>					
Surge Tank	8H23002-01	Water	5	08/23/18 12:35	08/23/18 14:05
<u>Ferrous Iron</u>					
Surge Tank	8H23002-01	Water	5	08/23/18 12:35	08/23/18 14:05
<u>Fluoride by Ion Chromatography</u>					
Surge Tank	8H23002-01	Water	5	08/23/18 12:35	08/23/18 14:05
<u>Manganese Dissolved EPA 200.7</u>					
Surge Tank	8H23002-01	Water	5	08/23/18 12:35	08/23/18 14:05
<u>Metals Total 6010B</u>					
Surge Tank	8H23002-01	Water	5	08/23/18 12:35	08/23/18 14:05
<u>pH Measurement SM4500H+ B</u>					
Surge Tank	8H23002-01	Water	5	08/23/18 12:35	08/23/18 14:05
<u>Phosphate by Ion Chromatography</u>					
Surge Tank	8H23002-01	Water	5	08/23/18 12:35	08/23/18 14:05
<u>Sulfate by Ion Chromatography</u>					
Surge Tank	8H23002-01	Water	5	08/23/18 12:35	08/23/18 14:05

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NDLA
Project Name: DFSP Norwalk

AA Project No: A5332761
Date Received: 08/23/18
Date Reported: 09/12/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
-----------	---------------	--------	-----	--------------	---------------

TDS SM2540C

Surge Tank	8H23002-01	Water	5	08/23/18 12:35	08/23/18 14:05
------------	------------	-------	---	----------------	----------------

Turbidity SM2130 B

Surge Tank	8H23002-01	Water	5	08/23/18 12:35	08/23/18 14:05
------------	------------	-------	---	----------------	----------------

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NDLA
Project Name: DFSP Norwalk
Method: Anions by Ion Chromatography

AA Project No: A5332761
Date Received: 08/23/18
Date Reported: 09/12/18

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MRL
<u>Phosphate by Ion Chromatography (EPA 300.0)</u>								
8H23002-01	Surge Tank	08/23/18	08/24/18	08/24/18	1	<0.50	mg/L	0.5

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NDLA
Project Name: DFSP Norwalk
Method: Fluoride by Ion Chromatography

AA Project No: A5332761
Date Received: 08/23/18
Date Reported: 09/12/18

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MRL
<u>Fluoride by Ion Chromatography (EPA 300.0)</u>								
8H23002-01	Surge Tank	08/23/18	08/24/18	08/24/18	1	0.61	mg/L	0.5

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NDLA
Project Name: DFSP Norwalk
Method: Sulfate by Ion Chromatography

AA Project No: A5332761
Date Received: 08/23/18
Date Reported: 09/12/18

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MRL
<hr/> <u>Sulfate by Ion Chromatography (EPA 300.0)</u>								
8H23002-01	Surge Tank	08/23/18	08/24/18	08/24/18	50	340	mg/L	0.5

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NDLA
Project Name: DFSP Norwalk
Method: General Chemistry Analyses

AA Project No: A5332761
Date Received: 08/23/18
Date Reported: 09/12/18

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MRL
<u>pH Measurement SM4500H+ B (SM4500H+ B)</u>								
8H23002-01	Surge Tank	08/23/18	08/23/18	08/23/18	1	7.3 O-04	pH Units	0.01
<u>TDS SM2540C (SM2540C)</u>								
8H23002-01	Surge Tank	08/23/18	08/27/18	08/28/18	1	1000	mg/L	10
<u>Turbidity SM2130 B (SM2130 B)</u>								
8H23002-01	Surge Tank	08/23/18	08/24/18	08/24/18	1	21	NTU	1

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NDLA
Project Name: DFSP Norwalk
Method: General Chemistry Analyses

AA Project No: A5332761
Date Received: 08/23/18
Date Reported: 09/12/18

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MRL
<u>Ferrous Iron (SM 3500)</u>								
8H23002-01	Surge Tank	08/23/18	08/23/18	08/23/18	1	<0.10	mg/L	0.1

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NDLA
Project Name: DFSP Norwalk
Method: Alkalinity by SM2320B Titrimetic

AA Project No: A5332761
Date Received: 08/23/18
Date Reported: 09/12/18
Units: mg/L

Date Sampled:	08/23/18	
Date Prepared:	08/27/18	
Date Analyzed:	08/27/18	
AA ID No:	8H23002-01	
Client ID No:	Surge Tank	
Matrix:	Water	
Dilution Factor:	1	MRL

Alkalinity SM2320B (SM2320B)

Total Alkalinity as CaCO ₃	350	2.0
Carbonate Alkalinity as CaCO ₃	<2.0	2.0
Bicarbonate Alkalinity as CaCO ₃	350	2.0
Hydroxide Alkalinity as CaCO ₃	<2.0	2.0

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS****Client:** The Source Group, Inc. (SH)**Project No:** 091-NDLA**Project Name:** DFSP Norwalk**Method:** Dissolved Metals by ICP Atomic Emission Spectroscopy**AA Project No:** A5332761**Date Received:** 08/23/18**Date Reported:** 09/12/18

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MRL
<u>Manganese Dissolved EPA 200.7 (EPA 200.7)</u>								
8H23002-01	Surge Tank	08/23/18	08/23/18	08/27/18	1	1000	ug/L	50

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NDLA
Project Name: DFSP Norwalk
Method: Total Metals by EPA 6010B

AA Project No: A5332761
Date Received: 08/23/18
Date Reported: 09/12/18
Units: mg/L

Date Sampled:	08/23/18	
Date Prepared:	08/23/18	
Date Analyzed:	08/30/18	
AA ID No:	8H23002-01	
Client ID No:	Surge Tank	
Matrix:	Water	
Dilution Factor:	1	MRL

Metals Total 6010B (EPA 6010B)

Aluminum	<0.10	0.10
Antimony	<0.050	0.050
Arsenic	<0.0070	0.0070
Barium	<0.10	0.10
Beryllium	<0.0050	0.0050
Boron	<0.20	0.20
Cadmium	<0.0050	0.0050
Calcium	<0.50	0.50
Chromium	<0.010	0.010
Cobalt	<0.050	0.050
Copper	<0.025	0.025
Iron	2.5	0.10
Lead	<0.010	0.010
Magnesium	<0.50	0.50
Manganese	<0.010	0.010
Molybdenum	<0.050	0.050
Nickel	<0.040	0.040
Potassium	<0.50	0.50
Selenium	<0.030	0.030
Silver	<0.010	0.010
Sodium	<0.50	0.50
Thallium	<0.025	0.025
Vanadium	<0.050	0.050
Zinc	<0.050	0.050
Silica (SiO ₂)	32	0.50

Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 091-NDLA
Project Name: DFSP Norwalk

AA Project No: A5332761
Date Received: 08/23/18
Date Reported: 09/12/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
Anions by Ion Chromatography - Quality Control										
<i>Batch B8H2409 - NO PREP</i>										
Blank (B8H2409-BLK1) Prepared & Analyzed: 08/24/18										
Phosphate	<0.50	0.50	mg/L							
LCS (B8H2409-BS1) Prepared & Analyzed: 08/24/18										
Phosphate	5.46	0.50	mg/L	5.0	109	90-110				
LCS Dup (B8H2409-BSD1) Prepared & Analyzed: 08/24/18										
Phosphate	5.49	0.50	mg/L	5.0	110	90-110	0.548	20		
Matrix Spike (B8H2409-MS1) Source: 8H23002-01 Prepared & Analyzed: 08/24/18										
Phosphate	1.05	0.50	mg/L	1.0	<0.50	105	80-120			
Matrix Spike Dup (B8H2409-MSD1) Source: 8H23002-01 Prepared & Analyzed: 08/24/18										
Phosphate	1.10	0.50	mg/L	1.0	<0.50	110	80-120	4.65	30	
Fluoride by Ion Chromatography - Quality Control										
<i>Batch B8H2407 - NO PREP</i>										
Blank (B8H2407-BLK1) Prepared & Analyzed: 08/24/18										
Fluoride	<0.50	0.50	mg/L							
LCS (B8H2407-BS1) Prepared & Analyzed: 08/24/18										
Fluoride	4.55	0.50	mg/L	5.0	91.0	90-110		30		
LCS Dup (B8H2407-BSD1) Prepared & Analyzed: 08/24/18										
Fluoride	4.55	0.50	mg/L	5.0	91.0	90-110	0.00	30		
Sulfate by Ion Chromatography - Quality Control										
<i>Batch B8I0613 - NO PREP</i>										
Blank (B8I0613-BLK1) Prepared & Analyzed: 08/24/18										
Sulfate	<0.50	0.50	mg/L							
LCS (B8I0613-BS1) Prepared & Analyzed: 08/24/18										
Sulfate	5.39	0.50	mg/L	5.0	108	90-110		20		
LCS Dup (B8I0613-BSD1) Prepared & Analyzed: 08/24/18										
Sulfate	5.49	0.50	mg/L	5.0	110	90-110	1.84	20		
Duplicate (B8I0613-DUP1) Source: 8H23002-01 Prepared & Analyzed: 08/24/18										
Sulfate	329	25	mg/L		344			4.46	30	
General Chemistry Analyses - Quality Control										

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NDLA
Project Name: DFSP Norwalk

AA Project No: A5332761
Date Received: 08/23/18
Date Reported: 09/12/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
General Chemistry Analyses - Quality Control										
<i>Batch B8H2330 - NO PREP</i>										
Duplicate (B8H2330-DUP1) Source: 8H23002-01 Prepared & Analyzed: 08/23/18										
pH	7.24	0.010	pH Units		7.27			0.414	20	O-04
<i>Batch B8H2408 - NO PREP</i>										
Blank (B8H2408-BLK1) Prepared & Analyzed: 08/24/18										
Turbidity	<1.0	1.0	NTU							
Duplicate (B8H2408-DUP1) Source: 8H23002-01 Prepared & Analyzed: 08/24/18										
Turbidity	20.5	1.0	NTU		21.2			3.36	20	
<i>Batch B8H2817 - NO PREP</i>										
Blank (B8H2817-BLK1) Prepared: 08/27/18 Analyzed: 08/28/18										
Total Dissolved Solids	<10	10	mg/L							
LCS (B8H2817-BS1) Prepared: 08/27/18 Analyzed: 08/28/18										
Total Dissolved Solids	500	10	mg/L	500		100	80-120			
LCS Dup (B8H2817-BSD1) Prepared: 08/27/18 Analyzed: 08/28/18										
Total Dissolved Solids	440	10	mg/L	500		88.0	80-120	12.8	25	
Duplicate (B8H2817-DUP1) Source: 8H22016-11 Prepared: 08/27/18 Analyzed: 08/28/18										
Total Dissolved Solids	695	50	mg/L		680			2.18	20	
General Chemistry Analyses - Quality Control										
<i>Batch B8H2329 - NO PREP</i>										
Blank (B8H2329-BLK1) Prepared & Analyzed: 08/23/18										
Ferrous Iron	<0.10	0.10	mg/L							
LCS (B8H2329-BS1) Prepared & Analyzed: 08/23/18										
Ferrous Iron	0.366	0.10	mg/L	0.40		91.5	80-120			
LCS Dup (B8H2329-BSD1) Prepared & Analyzed: 08/23/18										
Ferrous Iron	0.391	0.10	mg/L	0.40		97.8	80-120	6.61	20	
Duplicate (B8H2329-DUP1) Source: 8H23002-01 Prepared & Analyzed: 08/23/18										
Ferrous Iron	<0.10	0.10	mg/L		0.0380			14.6	200	
Alkalinity by SM2320B Titrimetic - Quality Control										
<i>Batch B8H2923 - NO PREP</i>										
Blank (B8H2923-BLK1) Prepared & Analyzed: 08/27/18										
Total Alkalinity as CaCO3	<2.0	2.0	mg/L							

Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 091-NDLA
Project Name: DFSP Norwalk

AA Project No: A5332761
Date Received: 08/23/18
Date Reported: 09/12/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Alkalinity by SM2320B Titrimetric - Quality Control										
<i>Batch B8H2923 - NO PREP</i>										
Blank (B8H2923-BLK1) Continued Prepared & Analyzed: 08/27/18										
Carbonate Alkalinity as CaCO3	<2.0	2.0	mg/L							
Bicarbonate Alkalinity as CaCO3	<2.0	2.0	mg/L							
Hydroxide Alkalinity as CaCO3	<2.0	2.0	mg/L							
LCS (B8H2923-BS1) Prepared & Analyzed: 08/27/18										
Total Alkalinity as CaCO3	1030	2.0	mg/L	1000		103	80-120			
Carbonate Alkalinity as CaCO3	862	2.0	mg/L				80-120			
Bicarbonate Alkalinity as CaCO3	127	2.0	mg/L				80-120			
Hydroxide Alkalinity as CaCO3	36.2	2.0	mg/L				80-120			
LCS Dup (B8H2923-BSD1) Prepared & Analyzed: 08/27/18										
Total Alkalinity as CaCO3	1020	2.0	mg/L	1000		102	80-120	0.597	20	
Carbonate Alkalinity as CaCO3	862	2.0	mg/L				80-120	0.0348	20	
Bicarbonate Alkalinity as CaCO3	118	2.0	mg/L				80-120	6.95	20	
Hydroxide Alkalinity as CaCO3	38.8	2.0	mg/L				80-120	6.93	20	
Duplicate (B8H2923-DUP1) Source: 8H23002-01 Prepared & Analyzed: 08/27/18										
Total Alkalinity as CaCO3	347	2.0	mg/L		347			0.00	25	
Carbonate Alkalinity as CaCO3	<2.0	2.0	mg/L		1.40			6.90	25	
Bicarbonate Alkalinity as CaCO3	345	2.0	mg/L		345			0.0290	25	
Hydroxide Alkalinity as CaCO3	<2.0	2.0	mg/L		<2.0				25	
Dissolved Metals by ICP Atomic Emission Spectroscopy - Quality Control										
<i>Batch B8H2326 - EPA 3010A</i>										
Blank (B8H2326-BLK1) Prepared: 08/23/18 Analyzed: 08/27/18										
Manganese	<50	50	ug/L							
LCS (B8H2326-BS1) Prepared: 08/23/18 Analyzed: 08/27/18										
Manganese	1050	50	ug/L	1000		105	80-120			
LCS Dup (B8H2326-BSD1) Prepared: 08/23/18 Analyzed: 08/27/18										
Manganese	1030	50	ug/L	1000		103	80-120	2.31	20	
Matrix Spike (B8H2326-MS1) Source: 8H23002-01 Prepared: 08/23/18 Analyzed: 08/27/18										
Manganese	1880	50	ug/L	1000	1030	84.8	75-125			
Matrix Spike Dup (B8H2326-MSD1) Source: 8H23002-01 Prepared: 08/23/18 Analyzed: 08/27/18										
Manganese	1900	50	ug/L	1000	1030	87.1	75-125	1.22	20	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NDLA
Project Name: DFSP Norwalk

AA Project No: A5332761
Date Received: 08/23/18
Date Reported: 09/12/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Metals by EPA 6010B - Quality Control										
<i>Batch B8H2327 - EPA 3010A</i>										
Blank (B8H2327-BLK1) Prepared: 08/23/18 Analyzed: 08/28/18										
Iron	<0.10	0.10	mg/L							
Vanadium	<0.050	0.050	mg/L							
Silica (SiO2)	<0.50	0.50	mg/L							
LCS (B8H2327-BS1) Prepared: 08/23/18 Analyzed: 08/28/18										
Iron	1.20	0.10	mg/L	1.0		120	80-120		20	
Vanadium	1.06	0.050	mg/L	1.0		106	80-120		20	
Silica (SiO2)	0.470	0.50	mg/L	0.50		94.1	80-120		20	
LCS Dup (B8H2327-BSD1) Prepared: 08/23/18 Analyzed: 08/28/18										
Iron	1.20	0.10	mg/L	1.0		120	80-120	0.00	20	
Vanadium	1.03	0.050	mg/L	1.0		103	80-120	2.58	20	
Silica (SiO2)	0.466	0.50	mg/L	0.50		93.2	80-120	0.961	20	
Matrix Spike (B8H2327-MS1) Source: 8H23002-01 Prepared: 08/23/18 Analyzed: 08/28/18										
Iron	3.71	0.10	mg/L	1.0	2.51	120	75-125		30	
Vanadium	1.04	0.050	mg/L	1.0	<0.050	104	75-125		30	
Silica (SiO2)	31.6	0.50	mg/L	0.50	31.6	0.00	75-125		30	QM-4X
Matrix Spike Dup (B8H2327-MSD1) Source: 8H23002-01 Prepared: 08/23/18 Analyzed: 08/28/18										
Iron	3.58	0.10	mg/L	1.0	2.51	107	75-125	3.73	30	
Vanadium	1.02	0.050	mg/L	1.0	<0.050	102	75-125	2.03	30	
Silica (SiO2)	31.9	0.50	mg/L	0.50	31.6	59.9	75-125	0.945	30	QM-4X

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NDLA
Project Name: DFSP Norwalk

AA Project No: A5332761
Date Received: 08/23/18
Date Reported: 09/12/18

Special Notes

- [1] = **O-04** : This sample was analyzed outside the EPA recommended holding time.
- [2] = **QM-4X** : The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.

A handwritten signature in black ink, appearing to read 'V. Vasile'.

Viorel Vasile
Operations Manager



Certificate of Analysis

FINAL REPORT

Work Orders: 8H24058

Project: A5332761/8H23002

Attn: Viorel Vasile

Client: American Analytics
9765 Eton Avenue
Chatsworth, CA 91311

Report Date: 9/06/2018

Received Date: 8/24/2018

Turnaround Time: Normal

Phones: (818) 998-5547

Fax: (818) 998-7258

P.O. #: Sub03612-A5332729

Billing Code:

Dear Viorel Vasile,

Enclosed are the results of analyses for samples received 8/24/18 with the Chain-of-Custody document. The samples were received in good condition, at 5.9 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Sample Results

Sample: 8H23002-01
8H24058-01 (Water)

Sampled: 08/23/18 12:35 by Client

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 200.8M/LC	Batch ID: W810041	Instr: ICPMS05	Prepared: 09/04/18 11:42	Analyst: jea		
Arsenic III	ND	1.6	ug/l	4	09/04/18 18:11	
Arsenic V	17	1.6	ug/l	4	09/04/18 18:11	



WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Quality Control Results

As Speciation by LC/ICP/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: W810041 - Direct Injection										
Blank (W810041-BLK1)				Prepared & Analyzed: 09/04/18						
Arsenic III	ND	0.40	ug/l							
Arsenic V	ND	0.40	ug/l							
LCS (W810041-BS1)				Prepared & Analyzed: 09/04/18						
Arsenic III	9.89	0.40	ug/l	10.0		99	75-125			
Arsenic V	10.1	0.40	ug/l	10.0		101	75-125			
Matrix Spike (W810041-MS1)				Source: 8H22064-01						
				Prepared & Analyzed: 09/04/18						
Arsenic III	58.7	2.0	ug/l	50.0	5.61	106	70-130			
Arsenic V	64.7	2.0	ug/l	50.0	11.0	107	70-130			
Matrix Spike Dup (W810041-MSD1)				Source: 8H22064-01						
				Prepared & Analyzed: 09/04/18						
Arsenic III	59.0	2.0	ug/l	50.0	5.61	107	70-130	0.5	30	
Arsenic V	65.0	2.0	ug/l	50.0	11.0	108	70-130	0.5	30	



WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Notes and Definitions

Item	Definition
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
Dil	Dilution
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Source	Sample that was matrix spiked or duplicated.
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ) and Detection Limit for Reporting (DLR)
MDA	Minimum Detectable Activity
NR	Not Reportable
TIC	Tentatively Identified Compound (TIC) using mass spectrometry. The reported concentration is relative concentration based on the nearest internal standard. If the library search produces no matches at, or above 85%, the compound is reported as unknown.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California State Water Resources Control Board (SWRCB)

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS 002.

Not Certified Analyses Summary

Analyte	CAS #	Not Accredited By
EPA 200.8M/LC in Water		
Arsenic III	22541-54-4	NELAP
Arsenic V	17428-41-0	NELAP

Reviewed by:

Regina Giancola
Project Manager



DoD-ELAP #L2457 • ELAP-CA #1132 • EPA-UCMR #CA00211 • Guam-EPA #17-008R • HW-DOH # • ISO 17025 #L2457.01 • LACSD #10143 • NELAP-CA #04229CA • NELAP-OR #4047 • NJ-DEP #CA015 • NV-DEP #NAC 445A • SCAQMD #93LA1006

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.



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

September 27, 2018

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5332786 / 8I13007**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 09/13/18 16:52 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 Analyticals.

Sincerely,

A handwritten signature in black ink, appearing to read 'V. Vasile'.

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: A5332786
Date Received: 09/13/18
Date Reported: 09/27/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
-----------	---------------	--------	-----	--------------	---------------

GRO in Vapor as Hexane

VES Influent	8I13007-01	Vapor	5	09/13/18 11:30	09/13/18 16:52
VES Effluent	8I13007-02	Vapor	5	09/13/18 11:20	09/13/18 16:52

VOCs BTEX/MTBE Vapor GC/MS

VES Influent	8I13007-01	Vapor	5	09/13/18 11:30	09/13/18 16:52
VES Effluent	8I13007-02	Vapor	5	09/13/18 11:20	09/13/18 16:52

VOCs Gasoline Range Organics Vapor

VES Influent	8I13007-01	Vapor	5	09/13/18 11:30	09/13/18 16:52
VES Effluent	8I13007-02	Vapor	5	09/13/18 11:20	09/13/18 16:52

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: A5332786
Date Received: 09/13/18
Date Reported: 09/27/18
Sampled: 09/13/18
Prepared: 09/14/18
Analyzed: 09/14/18

VES Influent
8113007-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	0.98	ug/L	0.50	0.31	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	99.1 %	70-140
Dibromofluoromethane	119 %	70-140
Toluene-d8	104 %	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: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5332786
Date Received: 09/13/18
Date Reported: 09/27/18
Sampled: 09/13/18
Prepared: 09/14/18
Analyzed: 09/14/18

VES Effluent
8113007-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	<0.25	ug/L	0.50	<0.078	ppmv	0.16
Ethylbenzene	<0.25	ug/L	0.50	<0.058	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<1.0	ug/L	2.0	<0.28	ppmv	0.55
Toluene	<0.25	ug/L	0.50	<0.066	ppmv	0.13
o-Xylene	<0.25	ug/L	0.50	<0.058	ppmv	0.12
m,p-Xylenes	<0.50	ug/L	1.0	<0.12	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	101 %	70-140
Dibromofluoromethane	120 %	70-140
Toluene-d8	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 VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332786
Date Received: 09/13/18
Date Reported: 09/27/18
Sampled: 09/13/18
Prepared: 09/14/18
Analyzed: 09/14/18

VES Influent
8113007-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	410	ug/L	20	100	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		102 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332786
Date Received: 09/13/18
Date Reported: 09/27/18
Sampled: 09/13/18
Prepared: 09/14/18
Analyzed: 09/14/18

VES Effluent
8113007-02 (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		95.7 %			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
Method: GRO in Vapor as Hexane

AA Project No: A5332786
Date Received: 09/13/18
Date Reported: 09/27/18
Units: ppmv

Date Sampled:	09/13/18	09/13/18	
Date Prepared:	09/14/18	09/14/18	
Date Analyzed:	09/14/18	09/14/18	
AA ID No:	8113007-01	8113007-02	
Client ID No:	VES Influent	VES Effluent	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	100	<5.7	5.7
---------------	------------	------	-----

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: A5332786
Date Received: 09/13/18
Date Reported: 09/27/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B811402 - *** DEFAULT PREP ***</i>										
Blank (B811402-BLK1)				Prepared & Analyzed: 09/14/18						
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>	<i>50.2</i>		<i>ug/L</i>	<i>50</i>		<i>100</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>50.9</i>		<i>ug/L</i>	<i>50</i>		<i>102</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>52.8</i>		<i>ug/L</i>	<i>50</i>		<i>106</i>	<i>70-140</i>			
LCS (B811402-BS1)				Prepared & Analyzed: 09/14/18						
Benzene	17.2	0.50	ug/L	20		86.2	75-125			
Ethylbenzene	19.8	0.50	ug/L	20		99.0	75-125			
Methyl-tert-Butyl Ether (MTBE)	37.4	2.0	ug/L	40		93.4	75-125			
Toluene	17.7	0.50	ug/L	20		88.7	75-125			
o-Xylene	19.0	0.50	ug/L	20		95.1	75-125			
m,p-Xylenes	38.4	1.0	ug/L	40		96.1	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>49.4</i>		<i>ug/L</i>	<i>50</i>		<i>98.9</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>52.3</i>		<i>ug/L</i>	<i>50</i>		<i>105</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.0</i>		<i>ug/L</i>	<i>50</i>		<i>99.9</i>	<i>70-140</i>			
LCS Dup (B811402-BSD1)				Prepared: 09/14/18 Analyzed: 09/15/18						
Benzene	18.1	0.50	ug/L	20		90.6	75-125	4.98	30	
Ethylbenzene	19.8	0.50	ug/L	20		99.2	75-125	0.202	30	
Methyl-tert-Butyl Ether (MTBE)	38.4	2.0	ug/L	40		96.0	75-125	2.80	30	
Toluene	18.6	0.50	ug/L	20		93.0	75-125	4.68	30	
o-Xylene	19.4	0.50	ug/L	20		96.9	75-125	1.87	30	
m,p-Xylenes	39.1	1.0	ug/L	40		97.7	75-125	1.65	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>48.9</i>		<i>ug/L</i>	<i>50</i>		<i>97.9</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>53.3</i>		<i>ug/L</i>	<i>50</i>		<i>107</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>49.0</i>		<i>ug/L</i>	<i>50</i>		<i>98.1</i>	<i>70-140</i>			
Duplicate (B811402-DUP1)				Source: 8113008-01 Prepared & Analyzed: 09/14/18						

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: A5332786
Date Received: 09/13/18
Date Reported: 09/27/18

Analyte	Result	Reporting 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 B811402 - *** DEFAULT PREP ***</i>										
Duplicate (B811402-DUP1) Continued Source: 8113008-01 Prepared & Analyzed: 09/14/18										
Benzene	<0.50	0.50	ug/L		0.420			47.1	30	
Ethylbenzene	<0.50	0.50	ug/L		0.290				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		1.01				30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>49.7</i>		<i>ug/L</i>	<i>50</i>		<i>99.4</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>65.0</i>		<i>ug/L</i>	<i>50</i>		<i>130</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>46.8</i>		<i>ug/L</i>	<i>50</i>		<i>93.6</i>	<i>70-140</i>			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B811405 - *** DEFAULT PREP ***</i>										
Blank (B811405-BLK1) Prepared & Analyzed: 09/14/18										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>45.7</i>		<i>ug/L</i>	<i>50</i>		<i>91.4</i>	<i>70-130</i>			
LCS (B811405-BS1) Prepared & Analyzed: 09/14/18										
Gasoline Range Organics (GRO)	433	20	ug/L	500		86.6	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>54.5</i>		<i>ug/L</i>	<i>50</i>		<i>109</i>	<i>70-130</i>			
LCS Dup (B811405-BSD1) Prepared & Analyzed: 09/14/18										
Gasoline Range Organics (GRO)	439	20	ug/L	500		87.8	75-125	1.36	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>55.1</i>		<i>ug/L</i>	<i>50</i>		<i>110</i>	<i>70-130</i>			
Duplicate (B811405-DUP1) Source: 8113007-01 Prepared & Analyzed: 09/14/18										
Gasoline Range Organics (GRO)	399	20	ug/L		414			3.63	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>53.0</i>		<i>ug/L</i>	<i>50</i>		<i>106</i>	<i>70-130</i>			
GRO in Vapor as Hexane - Quality Control										
<i>Batch B811405 - *** DEFAULT PREP ***</i>										
Blank (B811405-BLK1) Prepared & Analyzed: 09/14/18										
GRO as Hexane	<5.7	5.7	ppmv							
Duplicate (B811405-DUP1) Source: 8113007-01 Prepared & Analyzed: 09/14/18										

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: A5332786
Date Received: 09/13/18
Date Reported: 09/27/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
GRO in Vapor as Hexane - Quality Control										
<i>Batch B811405 - *** DEFAULT PREP ***</i>										
Duplicate (B811405-DUP1) Continued Source: 8113007-01 Prepared & Analyzed: 09/14/18										
GRO as Hexane	97.1	5.7	ppmv		100			3.03	30	

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: A5332786
Date Received: 09/13/18
Date Reported: 09/27/18

Special Notes

A handwritten signature in black ink, appearing to be 'AV' or similar initials.

Viorel Vasile
Operations Manager



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

September 27, 2018

Neil Irish

The Source Group, Inc. (SH)

1962 Freeman Ave.

Signal Hill, CA 90755

Re : DFSP Norwalk VES AQMD / 04-NDLA-013

A5332787 / 8I13008

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 09/13/18 16:52 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 Analytix.

Sincerely,

A handwritten signature in black ink, appearing to be 'V. Vasile'.

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: A5332787
Date Received: 09/13/18
Date Reported: 09/27/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
-----------	---------------	--------	-----	--------------	---------------

GRO in Vapor as Hexane

VES After GAC-1	8I13008-01	Vapor	5	09/13/18 11:28	09/13/18 16:52
VES After GAC-2	8I13008-02	Vapor	5	09/13/18 11:22	09/13/18 16:52

VOCs BTEX/MTBE Vapor GC/MS

VES After GAC-1	8I13008-01	Vapor	5	09/13/18 11:28	09/13/18 16:52
VES After GAC-2	8I13008-02	Vapor	5	09/13/18 11:22	09/13/18 16:52

VOCs Gasoline Range Organics Vapor

VES After GAC-1	8I13008-01	Vapor	5	09/13/18 11:28	09/13/18 16:52
VES After GAC-2	8I13008-02	Vapor	5	09/13/18 11:22	09/13/18 16:52

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: A5332787

Date Received: 09/13/18

Date Reported: 09/27/18

Sampled: 09/13/18

Prepared: 09/14/18

Analyzed: 09/14/18

VES After GAC-1

8113008-01 (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	94.1 %	70-140
Dibromofluoromethane	113 %	70-140
Toluene-d8	97.6 %	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: A5332787
Date Received: 09/13/18
Date Reported: 09/27/18
Sampled: 09/13/18
Prepared: 09/14/18
Analyzed: 09/14/18

VES After GAC-2
8113008-02 (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

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	96.4 %	70-140
Dibromofluoromethane	113 %	70-140
Toluene-d8	97.8 %	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: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332787
Date Received: 09/13/18
Date Reported: 09/27/18
Sampled: 09/13/18
Prepared: 09/14/18
Analyzed: 09/14/18

**VES After GAC-1
8113008-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	220	ug/L	20	54	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		86.0 %			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
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332787
Date Received: 09/13/18
Date Reported: 09/27/18
Sampled: 09/13/18
Prepared: 09/14/18
Analyzed: 09/14/18

VES After GAC-2
8113008-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	46	ug/L	20	11	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		97.7 %			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
Method: GRO in Vapor as Hexane

AA Project No: A5332787
Date Received: 09/13/18
Date Reported: 09/27/18
Units: ppmv

Date Sampled:	09/13/18	09/13/18	
Date Prepared:	09/14/18	09/14/18	
Date Analyzed:	09/14/18	09/14/18	
AA ID No:	8113008-01	8113008-02	
Client ID No:	VES After GAC-1	VES After GAC-2	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	52	11	5.7
---------------	-----------	-----------	-----

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: A5332787
Date Received: 09/13/18
Date Reported: 09/27/18

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B811402 - *** DEFAULT PREP ***</i>										
Blank (B811402-BLK1)				Prepared & Analyzed: 09/14/18						
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>	<i>50.2</i>		<i>ug/L</i>	<i>50</i>		<i>100</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>50.9</i>		<i>ug/L</i>	<i>50</i>		<i>102</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>52.8</i>		<i>ug/L</i>	<i>50</i>		<i>106</i>	<i>70-140</i>			
LCS (B811402-BS1)				Prepared & Analyzed: 09/14/18						
Benzene	17.2	0.50	ug/L	20		86.2	75-125			
Ethylbenzene	19.8	0.50	ug/L	20		99.0	75-125			
Methyl-tert-Butyl Ether (MTBE)	37.4	2.0	ug/L	40		93.4	75-125			
Toluene	17.7	0.50	ug/L	20		88.7	75-125			
o-Xylene	19.0	0.50	ug/L	20		95.1	75-125			
m,p-Xylenes	38.4	1.0	ug/L	40		96.1	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>49.4</i>		<i>ug/L</i>	<i>50</i>		<i>98.9</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>52.3</i>		<i>ug/L</i>	<i>50</i>		<i>105</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.0</i>		<i>ug/L</i>	<i>50</i>		<i>99.9</i>	<i>70-140</i>			
LCS Dup (B811402-BSD1)				Prepared: 09/14/18 Analyzed: 09/15/18						
Benzene	18.1	0.50	ug/L	20		90.6	75-125	4.98	30	
Ethylbenzene	19.8	0.50	ug/L	20		99.2	75-125	0.202	30	
Methyl-tert-Butyl Ether (MTBE)	38.4	2.0	ug/L	40		96.0	75-125	2.80	30	
Toluene	18.6	0.50	ug/L	20		93.0	75-125	4.68	30	
o-Xylene	19.4	0.50	ug/L	20		96.9	75-125	1.87	30	
m,p-Xylenes	39.1	1.0	ug/L	40		97.7	75-125	1.65	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>48.9</i>		<i>ug/L</i>	<i>50</i>		<i>97.9</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>53.3</i>		<i>ug/L</i>	<i>50</i>		<i>107</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>49.0</i>		<i>ug/L</i>	<i>50</i>		<i>98.1</i>	<i>70-140</i>			
Duplicate (B811402-DUP1)				Source: 8113008-01 Prepared & Analyzed: 09/14/18						

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: A5332787
Date Received: 09/13/18
Date Reported: 09/27/18

Analyte	Result	Reporting 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 B811402 - *** DEFAULT PREP ***</i>										
Duplicate (B811402-DUP1) Continued Source: 8113008-01 Prepared & Analyzed: 09/14/18										
Benzene	<0.50	0.50	ug/L		0.420			47.1	30	
Ethylbenzene	<0.50	0.50	ug/L		0.290				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		1.01				30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>49.7</i>		<i>ug/L</i>	<i>50</i>		<i>99.4</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>65.0</i>		<i>ug/L</i>	<i>50</i>		<i>130</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>46.8</i>		<i>ug/L</i>	<i>50</i>		<i>93.6</i>	<i>70-140</i>			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B811405 - *** DEFAULT PREP ***</i>										
Blank (B811405-BLK1) Prepared & Analyzed: 09/14/18										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>45.7</i>		<i>ug/L</i>	<i>50</i>		<i>91.4</i>	<i>70-130</i>			
LCS (B811405-BS1) Prepared & Analyzed: 09/14/18										
Gasoline Range Organics (GRO)	433	20	ug/L	500		86.6	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>54.5</i>		<i>ug/L</i>	<i>50</i>		<i>109</i>	<i>70-130</i>			
LCS Dup (B811405-BSD1) Prepared & Analyzed: 09/14/18										
Gasoline Range Organics (GRO)	439	20	ug/L	500		87.8	75-125	1.36	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>55.1</i>		<i>ug/L</i>	<i>50</i>		<i>110</i>	<i>70-130</i>			
Duplicate (B811405-DUP1) Source: 8113007-01 Prepared & Analyzed: 09/14/18										
Gasoline Range Organics (GRO)	399	20	ug/L		414			3.63	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>53.0</i>		<i>ug/L</i>	<i>50</i>		<i>106</i>	<i>70-130</i>			
GRO in Vapor as Hexane - Quality Control										
<i>Batch B811405 - *** DEFAULT PREP ***</i>										
Blank (B811405-BLK1) Prepared & Analyzed: 09/14/18										
GRO as Hexane	<5.7	5.7	ppmv							
Duplicate (B811405-DUP1) Source: 8113007-01 Prepared & Analyzed: 09/14/18										

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: A5332787
Date Received: 09/13/18
Date Reported: 09/27/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
GRO in Vapor as Hexane - Quality Control										
<i>Batch B811405 - *** DEFAULT PREP ***</i>										
Duplicate (B811405-DUP1) Continued Source: 8113007-01 Prepared & Analyzed: 09/14/18										
GRO as Hexane	97.1	5.7	ppmv		100			3.03	30	

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: A5332787
Date Received: 09/13/18
Date Reported: 09/27/18

Special Notes

A handwritten signature in black ink, appearing to be 'VA'.

Viorel Vasile
Operations Manager



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

September 27, 2018

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5332788 / 8I13009**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 09/13/18 16:52 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 Analyticals.

Sincerely,

A handwritten signature in black ink, appearing to read 'V. Vasile', is written over a light blue horizontal line.

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: A5332788
Date Received: 09/13/18
Date Reported: 09/27/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
-----------	---------------	--------	-----	--------------	---------------

GRO in Vapor as Hexane

Thermox Influent	8I13009-01	Vapor	5	09/13/18 11:59	09/13/18 16:52
Thermox Effluent	8I13009-02	Vapor	5	09/13/18 12:02	09/13/18 16:52
South Trunkline	8I13009-03	Vapor	5	09/13/18 11:46	09/13/18 16:52
East Trunkline	8I13009-04	Vapor	5	09/13/18 11:40	09/13/18 16:52

VOCs BTEX/MTBE Vapor GC/MS

Thermox Influent	8I13009-01	Vapor	5	09/13/18 11:59	09/13/18 16:52
Thermox Effluent	8I13009-02	Vapor	5	09/13/18 12:02	09/13/18 16:52
South Trunkline	8I13009-03	Vapor	5	09/13/18 11:46	09/13/18 16:52
East Trunkline	8I13009-04	Vapor	5	09/13/18 11:40	09/13/18 16:52

VOCs Gasoline Range Organics Vapor

Thermox Influent	8I13009-01	Vapor	5	09/13/18 11:59	09/13/18 16:52
Thermox Effluent	8I13009-02	Vapor	5	09/13/18 12:02	09/13/18 16:52
South Trunkline	8I13009-03	Vapor	5	09/13/18 11:46	09/13/18 16:52
East Trunkline	8I13009-04	Vapor	5	09/13/18 11:40	09/13/18 16:52

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: A5332788
Date Received: 09/13/18
Date Reported: 09/27/18
Sampled: 09/13/18
Prepared: 09/14/18
Analyzed: 09/14/18

Thermox Influent
8113009-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	6.0	ug/L	0.50	1.9	ppmv	0.16
Ethylbenzene	1.8	ug/L	0.50	0.41	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	1.3	ug/L	0.50	0.34	ppmv	0.13
o-Xylene	0.77	ug/L	0.50	0.18	ppmv	0.12
m,p-Xylenes	4.1	ug/L	1.0	0.94	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	90.7 %	70-140
Dibromofluoromethane	123 %	70-140
Toluene-d8	96.9 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5332788
Date Received: 09/13/18
Date Reported: 09/27/18
Sampled: 09/13/18
Prepared: 09/14/18
Analyzed: 09/14/18

Thermox Effluent
8113009-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	<0.25	ug/L	0.50	<0.078	ppmv	0.16
Ethylbenzene	<0.25	ug/L	0.50	<0.058	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<1.0	ug/L	2.0	<0.28	ppmv	0.55
Toluene	<0.25	ug/L	0.50	<0.066	ppmv	0.13
o-Xylene	<0.25	ug/L	0.50	<0.058	ppmv	0.12
m,p-Xylenes	<0.50	ug/L	1.0	<0.12	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	102 %	70-140
Dibromofluoromethane	120 %	70-140
Toluene-d8	101 %	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: A5332788
Date Received: 09/13/18
Date Reported: 09/27/18
Sampled: 09/13/18
Prepared: 09/14/18
Analyzed: 09/14/18

**South Trunkline
8113009-03 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	0.80	ug/L	0.50	0.25	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	2.0	ug/L	0.50	0.53	ppmv	0.13
o-Xylene	0.95	ug/L	0.50	0.22	ppmv	0.12
m,p-Xylenes	3.4	ug/L	1.0	0.78	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	93.6 %	70-140
Dibromofluoromethane	118 %	70-140
Toluene-d8	102 %	70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332788
Date Received: 09/13/18
Date Reported: 09/27/18
Sampled: 09/13/18
Prepared: 09/14/18
Analyzed: 09/14/18

East Trunkline
8113009-04 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	23	ug/L	0.50	7.2	ppmv	0.16
Ethylbenzene	13	ug/L	0.50	3.0	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	1.0	ug/L	0.50	0.27	ppmv	0.13
o-Xylene	7.3	ug/L	0.50	1.7	ppmv	0.12
m,p-Xylenes	39	ug/L	1.0	9.0	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	91.1 %	70-140
Dibromofluoromethane	114 %	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: 2
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332788
Date Received: 09/13/18
Date Reported: 09/27/18
Sampled: 09/13/18
Prepared: 09/14/18
Analyzed: 09/14/18

**Thermox Influent
8113009-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	3800	ug/L	20	930	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		118 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332788
Date Received: 09/13/18
Date Reported: 09/27/18
Sampled: 09/13/18
Prepared: 09/14/18
Analyzed: 09/14/18

**Thermox Effluent
8113009-02 (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		96.2 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

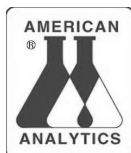
Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 2
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332788
Date Received: 09/13/18
Date Reported: 09/27/18
Sampled: 09/13/18
Prepared: 09/14/18
Analyzed: 09/14/18

**South Trunkline
8113009-03 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	2200	ug/L	20	540	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		110 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Project Name: DFSP Norwalk VES AQMD

Matrix: Vapor

Dilution: 10

Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332788

Date Received: 09/13/18

Date Reported: 09/27/18

Sampled: 09/13/18

Prepared: 09/14/18

Analyzed: 09/14/18

East Trunkline

8113009-04 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	20000	ug/L	20	4900	ppmv	4.9
<u>Surrogates</u>						
a,a,a-Trifluorotoluene		<u>%REC</u>				<u>%REC Limits</u>
		110 %				70-130

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Method: GRO in Vapor as Hexane

AA Project No: A5332788
Date Received: 09/13/18
Date Reported: 09/27/18
Units: ppmv

	09/13/18	09/13/18	09/13/18	09/13/18
Date Sampled:	09/13/18	09/13/18	09/13/18	09/13/18
Date Prepared:	09/14/18	09/14/18	09/14/18	09/14/18
Date Analyzed:	09/14/18	09/14/18	09/14/18	09/14/18
AA ID No:	8113009-01	8113009-02	8113009-03	8113009-04
Client ID No:	Thermox Influent	Thermox Effluent	South Trunkline	East Trunkline
Matrix:	Vapor	Vapor	Vapor	Vapor
Dilution Factor:	2	1	2	10

MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	930	<5.7	540	4900	5.7
---------------	------------	------	------------	-------------	-----

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: A5332788
Date Received: 09/13/18
Date Reported: 09/27/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B811402 - *** DEFAULT PREP ***</i>										
Blank (B811402-BLK1)				Prepared & Analyzed: 09/14/18						
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>	<i>50.2</i>		<i>ug/L</i>	<i>50</i>		<i>100</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>50.9</i>		<i>ug/L</i>	<i>50</i>		<i>102</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>52.8</i>		<i>ug/L</i>	<i>50</i>		<i>106</i>	<i>70-140</i>			
LCS (B811402-BS1)				Prepared & Analyzed: 09/14/18						
Benzene	17.2	0.50	ug/L	20		86.2	75-125			
Ethylbenzene	19.8	0.50	ug/L	20		99.0	75-125			
Methyl-tert-Butyl Ether (MTBE)	37.4	2.0	ug/L	40		93.4	75-125			
Toluene	17.7	0.50	ug/L	20		88.7	75-125			
o-Xylene	19.0	0.50	ug/L	20		95.1	75-125			
m,p-Xylenes	38.4	1.0	ug/L	40		96.1	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>49.4</i>		<i>ug/L</i>	<i>50</i>		<i>98.9</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>52.3</i>		<i>ug/L</i>	<i>50</i>		<i>105</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.0</i>		<i>ug/L</i>	<i>50</i>		<i>99.9</i>	<i>70-140</i>			
LCS Dup (B811402-BSD1)				Prepared: 09/14/18 Analyzed: 09/15/18						
Benzene	18.1	0.50	ug/L	20		90.6	75-125	4.98	30	
Ethylbenzene	19.8	0.50	ug/L	20		99.2	75-125	0.202	30	
Methyl-tert-Butyl Ether (MTBE)	38.4	2.0	ug/L	40		96.0	75-125	2.80	30	
Toluene	18.6	0.50	ug/L	20		93.0	75-125	4.68	30	
o-Xylene	19.4	0.50	ug/L	20		96.9	75-125	1.87	30	
m,p-Xylenes	39.1	1.0	ug/L	40		97.7	75-125	1.65	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>48.9</i>		<i>ug/L</i>	<i>50</i>		<i>97.9</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>53.3</i>		<i>ug/L</i>	<i>50</i>		<i>107</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>49.0</i>		<i>ug/L</i>	<i>50</i>		<i>98.1</i>	<i>70-140</i>			
Duplicate (B811402-DUP1)				Source: 8113008-01 Prepared & Analyzed: 09/14/18						

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: A5332788
Date Received: 09/13/18
Date Reported: 09/27/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
Batch B811402 - *** DEFAULT PREP ***										
Duplicate (B811402-DUP1) Continued Source: 8113008-01 Prepared & Analyzed: 09/14/18										
Benzene	<0.50	0.50	ug/L		0.420			47.1	30	
Ethylbenzene	<0.50	0.50	ug/L		0.290				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		1.01				30	
Surrogate: 4-Bromofluorobenzene	49.7		ug/L	50		99.4	70-140			
Surrogate: Dibromofluoromethane	65.0		ug/L	50		130	70-140			
Surrogate: Toluene-d8	46.8		ug/L	50		93.6	70-140			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
Batch B811405 - *** DEFAULT PREP ***										
Blank (B811405-BLK1) Prepared & Analyzed: 09/14/18										
Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	45.7		ug/L	50		91.4	70-130			
LCS (B811405-BS1) Prepared & Analyzed: 09/14/18										
Gasoline Range Organics (GRO)	433	20	ug/L	500		86.6	75-125			
Surrogate: a,a,a-Trifluorotoluene	54.5		ug/L	50		109	70-130			
LCS Dup (B811405-BSD1) Prepared & Analyzed: 09/14/18										
Gasoline Range Organics (GRO)	439	20	ug/L	500		87.8	75-125	1.36	30	
Surrogate: a,a,a-Trifluorotoluene	55.1		ug/L	50		110	70-130			
Duplicate (B811405-DUP1) Source: 8113007-01 Prepared & Analyzed: 09/14/18										
Gasoline Range Organics (GRO)	399	20	ug/L		414			3.63	30	
Surrogate: a,a,a-Trifluorotoluene	53.0		ug/L	50		106	70-130			
GRO in Vapor as Hexane - Quality Control										
Batch B811405 - *** DEFAULT PREP ***										
Blank (B811405-BLK1) Prepared & Analyzed: 09/14/18										
GRO as Hexane	<5.7	5.7	ppmv							
Duplicate (B811405-DUP1) Source: 8113007-01 Prepared & Analyzed: 09/14/18										

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: A5332788
Date Received: 09/13/18
Date Reported: 09/27/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
GRO in Vapor as Hexane - Quality Control										
<i>Batch B811405 - *** DEFAULT PREP ***</i>										
Duplicate (B811405-DUP1) Continued Source: 8113007-01 Prepared & Analyzed: 09/14/18										
GRO as Hexane	97.1	5.7	ppmv		100			3.03	30	

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: A5332788
Date Received: 09/13/18
Date Reported: 09/27/18

Special Notes

A handwritten signature in black ink, appearing to be 'VA'.

Viorel Vasile
Operations Manager



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

September 27, 2018

Neil Irish

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

**Re : DFSP Norwalk GWETS NPDES Monthly / 04-NDLA-013
A5332789 / 8I13010**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 09/13/18 16:52 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 Analytix.

Sincerely,

A handwritten signature in black ink, appearing to read 'V. Vasile'.

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: A5332789
Date Received: 09/13/18
Date Reported: 09/27/18
Units: ug/L

Date Sampled:	09/13/18		
Date Prepared:	09/24/18		
Date Analyzed:	09/24/18		
AA ID No:	8113010-01		
Client ID No:	Effluent		
Matrix:	Water		
Dilution Factor:	1	MDL	MRL

8260B TPHGASOLINEBTEXOXY (EPA 8260B)

tert-Butyl alcohol (TBA)	<7.0	7.0	10
Gasoline Range Organics (GRO)	<40	40	100
Methyl-tert-Butyl Ether (MTBE)	<0.40	0.40	2.0

Surrogates

		<u>%REC Limits</u>	
4-Bromofluorobenzene	110%	70-140	
Dibromofluoromethane	121%	70-140	
Toluene-d8	103%	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: A5332789
Date Received: 09/13/18
Date Reported: 09/27/18
Units: ug/L

Date Sampled:	09/13/18		
Date Prepared:	09/17/18		
Date Analyzed:	09/18/18		
AA ID No:	8113010-01		
Client ID No:	Effluent		
Matrix:	Water		
Dilution Factor:	1	MDL	MRL

Diesel Range Organics 8015M (EPA 8015M)

Diesel Range Organics as Diesel	<60	60	100
---------------------------------	-----	----	-----

Surrogates

o-Terphenyl	63%	<u>%REC Limits</u>
		50-150

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: A5332789
Date Received: 09/13/18
Date Reported: 09/27/18

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>									
8I13010-01	Effluent	09/13/18	09/18/18	09/18/18	1	<0.0060	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: A5332789
Date Received: 09/13/18
Date Reported: 09/27/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
TPHG/BTEX/Oxygenates by GC/MS - Quality Control										
<i>Batch B8I2423 - EPA 5030B</i>										
Blank (B8I2423-BLK1) Prepared & Analyzed: 09/24/18										
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>	<i>50.6</i>		<i>ug/L</i>	<i>50</i>		<i>101</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>58.6</i>		<i>ug/L</i>	<i>50</i>		<i>117</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>48.2</i>		<i>ug/L</i>	<i>50</i>		<i>96.5</i>	<i>70-140</i>			
LCS (B8I2423-BS1) Prepared: 09/24/18 Analyzed: 09/25/18										
tert-Amyl Methyl Ether (TAME)	20.5	0.30	ug/L	20		102	70-130			
Benzene	21.5	0.20	ug/L	20		107	75-125			
tert-Butyl alcohol (TBA)	93.7	7.0	ug/L	100		93.7	70-130			
Diisopropyl ether (DIPE)	23.6	0.50	ug/L	20		118	70-130			
Ethylbenzene	23.2	0.20	ug/L	20		116	75-125			
Ethyl-tert-Butyl Ether (ETBE)	22.0	0.40	ug/L	20		110	70-130			
Gasoline Range Organics (GRO)	498	40	ug/L	500		99.6	70-130			
Methyl-tert-Butyl Ether (MTBE)	41.2	0.40	ug/L	40		103	70-135			
Toluene	20.7	0.30	ug/L	20		104	75-125			
o-Xylene	21.1	0.30	ug/L	20		105	75-125			
m,p-Xylenes	42.2	0.40	ug/L	40		106	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>55.4</i>		<i>ug/L</i>	<i>50</i>		<i>111</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>53.2</i>		<i>ug/L</i>	<i>50</i>		<i>106</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>54.8</i>		<i>ug/L</i>	<i>50</i>		<i>110</i>	<i>70-140</i>			
Matrix Spike (B8I2423-MS1) Source: 8I14001-01 Prepared & Analyzed: 09/24/18										
tert-Amyl Methyl Ether (TAME)	20.0	0.30	ug/L	20		100	70-130			

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332789
Date Received: 09/13/18
Date Reported: 09/27/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

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

Batch B812423 - EPA 5030B

Matrix Spike (B812423-MS1) Continued Source: 8114001-01 Prepared & Analyzed: 09/24/18

Benzene	19.6	0.20	ug/L	20		97.8	70-130			
tert-Butyl alcohol (TBA)	99.6	7.0	ug/L	100		99.6	70-130			
Diisopropyl ether (DIPE)	21.1	0.50	ug/L	20		105	70-130			
Ethylbenzene	21.6	0.20	ug/L	20		108	70-130			
Ethyl-tert-Butyl Ether (ETBE)	20.6	0.40	ug/L	20		103	70-130			
Methyl-tert-Butyl Ether (MTBE)	41.3	0.40	ug/L	40		103	70-130			
Toluene	19.6	0.30	ug/L	20		98.2	70-130			
o-Xylene	20.6	0.30	ug/L	20		103	70-130			
m,p-Xylenes	40.5	0.40	ug/L	40		101	70-130			

Surrogate: 4-Bromofluorobenzene	52.7		ug/L	50		105	70-140			
Surrogate: Dibromofluoromethane	50.9		ug/L	50		102	70-140			
Surrogate: Toluene-d8	51.6		ug/L	50		103	70-140			

Matrix Spike Dup (B812423-MSD1) Source: 8114001-01 Prepared & Analyzed: 09/24/18

tert-Amyl Methyl Ether (TAME)	19.8	0.30	ug/L	20		99.0	70-130	1.01	30	
Benzene	19.2	0.20	ug/L	20		95.8	70-130	1.96	30	
tert-Butyl alcohol (TBA)	105	7.0	ug/L	100		105	70-130	5.28	30	
Diisopropyl ether (DIPE)	20.7	0.50	ug/L	20		104	70-130	1.68	30	
Ethylbenzene	20.7	0.20	ug/L	20		104	70-130	4.30	30	
Ethyl-tert-Butyl Ether (ETBE)	20.2	0.40	ug/L	20		101	70-130	1.76	30	
Methyl-tert-Butyl Ether (MTBE)	40.7	0.40	ug/L	40		102	70-130	1.51	30	
Toluene	19.4	0.30	ug/L	20		97.1	70-130	1.08	30	
o-Xylene	19.8	0.30	ug/L	20		98.8	70-130	4.41	30	
m,p-Xylenes	39.2	0.40	ug/L	40		98.0	70-130	3.16	30	

Surrogate: 4-Bromofluorobenzene	51.7		ug/L	50		103	70-140			
Surrogate: Dibromofluoromethane	52.2		ug/L	50		104	70-140			
Surrogate: Toluene-d8	51.1		ug/L	50		102	70-140			

Diesel Range Organics by GC/FID - Quality Control

Batch B811717 - EPA 3510C

Blank (B811717-BLK1) Prepared & Analyzed: 09/17/18

Diesel Range Organics as Diesel	<60	60	ug/L							
---------------------------------	-----	----	------	--	--	--	--	--	--	--

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: A5332789
Date Received: 09/13/18
Date Reported: 09/27/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Diesel Range Organics by GC/FID - Quality Control										
<i>Batch B811717 - EPA 3510C</i>										
Blank (B811717-BLK1) Continued				Prepared & Analyzed: 09/17/18						
<i>Surrogate: o-Terphenyl</i>	30.7		ug/L	40		76.7	50-150			
LCS (B811717-BS1)				Prepared: 09/17/18 Analyzed: 09/18/18						
Diesel Range Organics as Diesel	613	60	ug/L	800		76.7	75-125		30	
<i>Surrogate: o-Terphenyl</i>	36.8		ug/L	40		92.0	50-150			
LCS Dup (B811717-BSD1)				Prepared: 09/17/18 Analyzed: 09/18/18						
Diesel Range Organics as Diesel	621	60	ug/L	800		77.6	75-125	1.16	30	
<i>Surrogate: o-Terphenyl</i>	38.2		ug/L	40		95.4	50-150			

Total Metals by ICP Atomic Emission Spectroscopy - Quality Control

Batch B811827 - EPA 200.7

Blank (B811827-BLK1)				Prepared & Analyzed: 09/18/18						
Arsenic	<0.0060	0.0060	mg/L							
LCS (B811827-BS1)				Prepared & Analyzed: 09/18/18						
Arsenic	1.01	0.0060	mg/L	1.0		101	80-120		20	
LCS Dup (B811827-BSD1)				Prepared & Analyzed: 09/18/18						
Arsenic	1.03	0.0060	mg/L	1.0		103	80-120	2.45	20	
Duplicate (B811827-DUP1)				Source: 8113010-01 Prepared & Analyzed: 09/18/18						
Arsenic	<0.0060	0.0060	mg/L			<0.0070			30	
Matrix Spike (B811827-MS1)				Source: 8113011-01 Prepared & Analyzed: 09/18/18						
Arsenic	1.04	0.0060	mg/L	1.0	0.0245	101	75-125		20	
Matrix Spike Dup (B811827-MSD1)				Source: 8113011-01 Prepared & Analyzed: 09/18/18						
Arsenic	1.06	0.0060	mg/L	1.0	0.0245	104	75-125	2.19	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: A5332789
Date Received: 09/13/18
Date Reported: 09/27/18

Special Notes

A handwritten signature in black ink, appearing to be 'AV' or similar initials.

Viorel Vasile
Operations Manager



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

October 02, 2018

Neil Irish

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

**Re : DFSP Norwalk GWETS NPDES Monthly / 04-NDLA-013
A5332790 / 8I13011**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 09/13/18 16:52 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 Analytix.

Sincerely,

A handwritten signature in black ink, appearing to read 'V. Vasile'.

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: A5332790
Date Received: 09/13/18
Date Reported: 10/02/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
-----------	---------------	--------	-----	--------------	---------------

8260B TPHGASOLINEBTEXOXY

Surge Tank	8I13011-01	Water	5	09/13/18 10:43	09/13/18 16:52
After GAC-1	8I13011-02	Water	5	09/13/18 10:37	09/13/18 16:52
After GAC-2	8I13011-03	Water	5	09/13/18 10:32	09/13/18 16:52

Arsenic Total EPA 200.7

Surge Tank	8I13011-01	Water	5	09/13/18 10:43	09/13/18 16:52
After Zeolite Bed-1	8I13011-04	Water	5	09/13/18 10:26	09/13/18 16:52
After Zeolite Bed-2	8I13011-05	Water	5	09/13/18 10:25	09/13/18 16:52

Diesel Range Organics 8015M

Surge Tank	8I13011-01	Water	5	09/13/18 10:43	09/13/18 16:52
After GAC-1	8I13011-02	Water	5	09/13/18 10:37	09/13/18 16:52
After GAC-2	8I13011-03	Water	5	09/13/18 10:32	09/13/18 16:52

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: A5332790
Date Received: 09/13/18
Date Reported: 10/02/18
Units: ug/L

Date Sampled:	09/13/18	09/13/18	09/13/18		
Date Prepared:	09/24/18	09/24/18	09/24/18		
Date Analyzed:	09/24/18	09/24/18	09/24/18		
AA ID No:	8113011-01	8113011-02	8113011-03		
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	0.38 J	<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

<u>Surrogates</u>				<u>%REC Limits</u>
4-Bromofluorobenzene	105%	104%	107%	70-140
Dibromofluoromethane	120%	119%	104%	70-140
Toluene-d8	100%	100%	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: A5332790
Date Received: 09/13/18
Date Reported: 10/02/18
Units: ug/L

Date Sampled:	09/13/18	09/13/18	09/13/18		
Date Prepared:	09/17/18	09/17/18	09/17/18		
Date Analyzed:	09/18/18	09/18/18	09/18/18		
AA ID No:	8113011-01	8113011-02	8113011-03		
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	<60	<60	<60	60	100
---------------------------------	-----	-----	-----	----	-----

Surrogates

o-Terphenyl	59%	70%	64%	<u>%REC Limits</u> 50-150	
-------------	-----	-----	-----	-------------------------------------	--

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: A5332790
Date Received: 09/13/18
Date Reported: 10/02/18

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>									
8I13011-01	Surge Tank	09/13/18	09/18/18	09/18/18	1	0.024	mg/L	0.006	0.007
8I13011-04	After Zeolite Bed-1	09/13/18	09/18/18	09/18/18	1	0.020	mg/L	0.006	0.007
8I13011-05	After Zeolite Bed-2	09/13/18	09/18/18	09/18/18	1	0.018	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: A5332790
Date Received: 09/13/18
Date Reported: 10/02/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
TPHG/BTEX/Oxygenates by GC/MS - Quality Control										
<i>Batch B8I2423 - EPA 5030B</i>										
Blank (B8I2423-BLK1) Prepared & Analyzed: 09/24/18										
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>	<i>50.6</i>		<i>ug/L</i>	<i>50</i>		<i>101</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>58.6</i>		<i>ug/L</i>	<i>50</i>		<i>117</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>48.2</i>		<i>ug/L</i>	<i>50</i>		<i>96.5</i>	<i>70-140</i>			
LCS (B8I2423-BS1) Prepared: 09/24/18 Analyzed: 09/25/18										
tert-Amyl Methyl Ether (TAME)	20.5	0.30	ug/L	20		102	70-130			
Benzene	21.5	0.20	ug/L	20		107	75-125			
tert-Butyl alcohol (TBA)	93.7	7.0	ug/L	100		93.7	70-130			
Diisopropyl ether (DIPE)	23.6	0.50	ug/L	20		118	70-130			
Ethylbenzene	23.2	0.20	ug/L	20		116	75-125			
Ethyl-tert-Butyl Ether (ETBE)	22.0	0.40	ug/L	20		110	70-130			
Gasoline Range Organics (GRO)	498	40	ug/L	500		99.6	70-130			
Methyl-tert-Butyl Ether (MTBE)	41.2	0.40	ug/L	40		103	70-135			
Toluene	20.7	0.30	ug/L	20		104	75-125			
o-Xylene	21.1	0.30	ug/L	20		105	75-125			
m,p-Xylenes	42.2	0.40	ug/L	40		106	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>55.4</i>		<i>ug/L</i>	<i>50</i>		<i>111</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>53.2</i>		<i>ug/L</i>	<i>50</i>		<i>106</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>54.8</i>		<i>ug/L</i>	<i>50</i>		<i>110</i>	<i>70-140</i>			
Matrix Spike (B8I2423-MS1) Source: 8I14001-01 Prepared & Analyzed: 09/24/18										
tert-Amyl Methyl Ether (TAME)	20.0	0.30	ug/L	20		100	70-130			

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332790
Date Received: 09/13/18
Date Reported: 10/02/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

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

Batch B812423 - EPA 5030B

Matrix Spike (B812423-MS1) Continued Source: 8114001-01 Prepared & Analyzed: 09/24/18

Benzene	19.6	0.20	ug/L	20		97.8	70-130			
tert-Butyl alcohol (TBA)	99.6	7.0	ug/L	100		99.6	70-130			
Diisopropyl ether (DIPE)	21.1	0.50	ug/L	20		105	70-130			
Ethylbenzene	21.6	0.20	ug/L	20		108	70-130			
Ethyl-tert-Butyl Ether (ETBE)	20.6	0.40	ug/L	20		103	70-130			
Methyl-tert-Butyl Ether (MTBE)	41.3	0.40	ug/L	40		103	70-130			
Toluene	19.6	0.30	ug/L	20		98.2	70-130			
o-Xylene	20.6	0.30	ug/L	20		103	70-130			
m,p-Xylenes	40.5	0.40	ug/L	40		101	70-130			

Surrogate: 4-Bromofluorobenzene	52.7		ug/L	50		105	70-140			
Surrogate: Dibromofluoromethane	50.9		ug/L	50		102	70-140			
Surrogate: Toluene-d8	51.6		ug/L	50		103	70-140			

Matrix Spike Dup (B812423-MSD1) Source: 8114001-01 Prepared & Analyzed: 09/24/18

tert-Amyl Methyl Ether (TAME)	19.8	0.30	ug/L	20		99.0	70-130	1.01	30	
Benzene	19.2	0.20	ug/L	20		95.8	70-130	1.96	30	
tert-Butyl alcohol (TBA)	105	7.0	ug/L	100		105	70-130	5.28	30	
Diisopropyl ether (DIPE)	20.7	0.50	ug/L	20		104	70-130	1.68	30	
Ethylbenzene	20.7	0.20	ug/L	20		104	70-130	4.30	30	
Ethyl-tert-Butyl Ether (ETBE)	20.2	0.40	ug/L	20		101	70-130	1.76	30	
Methyl-tert-Butyl Ether (MTBE)	40.7	0.40	ug/L	40		102	70-130	1.51	30	
Toluene	19.4	0.30	ug/L	20		97.1	70-130	1.08	30	
o-Xylene	19.8	0.30	ug/L	20		98.8	70-130	4.41	30	
m,p-Xylenes	39.2	0.40	ug/L	40		98.0	70-130	3.16	30	

Surrogate: 4-Bromofluorobenzene	51.7		ug/L	50		103	70-140			
Surrogate: Dibromofluoromethane	52.2		ug/L	50		104	70-140			
Surrogate: Toluene-d8	51.1		ug/L	50		102	70-140			

Diesel Range Organics by GC/FID - Quality Control

Batch B811717 - EPA 3510C

Blank (B811717-BLK1) Prepared & Analyzed: 09/17/18

Diesel Range Organics as Diesel	<60	60	ug/L							
---------------------------------	-----	----	------	--	--	--	--	--	--	--

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: A5332790
Date Received: 09/13/18
Date Reported: 10/02/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Diesel Range Organics by GC/FID - Quality Control										
<i>Batch B811717 - EPA 3510C</i>										
Blank (B811717-BLK1) Continued				Prepared & Analyzed: 09/17/18						
<i>Surrogate: o-Terphenyl</i>	30.7		ug/L	40		76.7	50-150			
LCS (B811717-BS1)				Prepared: 09/17/18 Analyzed: 09/18/18						
Diesel Range Organics as Diesel	613	60	ug/L	800		76.7	75-125		30	
<i>Surrogate: o-Terphenyl</i>	36.8		ug/L	40		92.0	50-150			
LCS Dup (B811717-BSD1)				Prepared: 09/17/18 Analyzed: 09/18/18						
Diesel Range Organics as Diesel	621	60	ug/L	800		77.6	75-125	1.16	30	
<i>Surrogate: o-Terphenyl</i>	38.2		ug/L	40		95.4	50-150			
Total Metals by ICP Atomic Emission Spectroscopy - Quality Control										
<i>Batch B811827 - EPA 200.7</i>										
Blank (B811827-BLK1)				Prepared & Analyzed: 09/18/18						
Arsenic	<0.0060	0.0060	mg/L							
LCS (B811827-BS1)				Prepared & Analyzed: 09/18/18						
Arsenic	1.01	0.0060	mg/L	1.0		101	80-120		20	
LCS Dup (B811827-BSD1)				Prepared & Analyzed: 09/18/18						
Arsenic	1.03	0.0060	mg/L	1.0		103	80-120	2.45	20	
Duplicate (B811827-DUP1)				Source: 8113010-01 Prepared & Analyzed: 09/18/18						
Arsenic	<0.0060	0.0060	mg/L						30	
Matrix Spike (B811827-MS1)				Source: 8113011-01 Prepared & Analyzed: 09/18/18						
Arsenic	1.04	0.0060	mg/L	1.0	0.0245	101	75-125		20	
Matrix Spike Dup (B811827-MSD1)				Source: 8113011-01 Prepared & Analyzed: 09/18/18						
Arsenic	1.06	0.0060	mg/L	1.0	0.0245	104	75-125	2.19	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: A5332790
Date Received: 09/13/18
Date Reported: 10/02/18

Special Notes

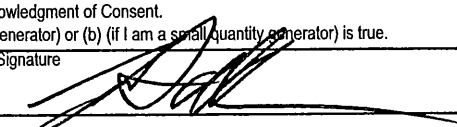
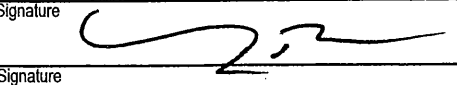
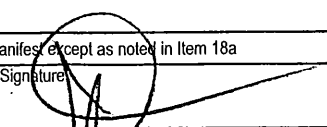
J : Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

A handwritten signature in black ink, appearing to be 'VA'.

Viorel Vasile
Operations Manager

APPENDIX B

LNAPL HAZARDOUS WASTE MANIFEST

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number CA 8971524360	2. Page 1 of 1	3. Emergency Response Phone (310) 241-2834	4. Manifest Tracking Number 012178834 FLE		
5. Generator's Name and Mailing Address Defense Logistics Agency - Energy Attn: Todd Williams 3171 North Gaffey St. San Pedro, CA 90731				Generator's Site Address (if different than mailing address) DFSP Norwalk 15306 Norwalk Blvd. Norwalk, CA 90650			
Generator's Phone: (310) 241-2834							
6. Transporter 1 Company Name BELSHIRE				U.S. EPA ID Number CAR000183913			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address DeManno Kerdoon 2000 N. Alameda St. Compton, CA 90222				U.S. EPA ID Number CAT080013352			
Facility's Phone: (310) 537-7100							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. UN1993, Flammable Liquid, n.o.s., 3, PG II (Contains Jet Fuel)	010	DM	460	G	133	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information ERG# 128 - Jet Fuel and Groundwater Apex Contact - Glenn Androsko 714-608-1089				WEAR ALL APPROPRIATE PROTECTIVE CLOTHING		BESI: 295842	
						10X55	
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/Offoror's Printed/Typed Name Todd E.H. Williams				Signature 		Month Day Year 07 13 18	
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 Thomas Burk				Signature 		Month Day Year 07 13 18	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
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:							
18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)				Signature		Month Day Year	
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 Joselito Colgado				Signature 		Month Day Year 17 11 18	