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November 12, 2020

Mr. Paul Cho, P.G.
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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 2020, Defense Fuel Support Point Norwalk* (SCP NO. 0286A, SITE ID No. 16638) located at 15306 Norwalk Boulevard, Norwalk, California

If you have any questions or need additional information concerning this document, please contact Ms. Carol Devier-Heeny at (571) 767-9813 or carol.devier-heeny@dla.mil.

Sincerely,

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Chief, Restoration Branch

Enclosure
As stated

cc: Daniel Swensson, P.G, Principal Geologist, SGI-Apex

REMEDIATION STATUS REPORT - THIRD QUARTER 2020
DEFENSE FUEL SUPPORT POINT NORWALK
15306 Norwalk Boulevard
Norwalk, California

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

Prepared For:



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LIST OF ACRONYMS

AST	above ground storage tank
BTEX	Benzene, toluene, ethylbenzene, and total xylenes
COD	Chemical Oxygen Demand
°F	degrees Fahrenheit
DFSP	Defense Fuel Support Point
DLA	Defense Logistics Agency - Energy Environmental Division 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
GRO	Gasoline range organic
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
µg/L	micrograms per liter
MTBE	Methyl tertiary-butyl ether
ND	Non-detect
NFA	No Further Action
NPDES	National Pollutant Discharge Elimination System
OM&M	Operations, maintenance, and monitoring
OVA	Organic vapor analyzer
ppm	Parts per million
PID	Photoionization detector
SCAQMD	South Coast Air Quality Management District
SFPP	Santa Fe Pacific Pipelines Partners, L.P.
SGI	The Source Group, Inc.
SVE	Soil vapor extraction
SS	Suspended Solids
TBA	Tertiary-butyl alcohol
TOC	Top of casing

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 - Energy (DLA), The Source Group, Inc. (SGI) presents this report to summarize remediation system operations during this reporting period (Third Quarter 2020 – July 1, 2020 through September 30, 2020) 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 benzene, toluene, ethylbenzene, and total xylenes (collectively, BTEX), jet propellant number 5 (JP-5), diesel, 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.

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

1.2 Remediation Technologies

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.

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 above ground treatment of contaminated vadose zone soils excavated at the Site was conducted from April 2015 until March 2017 (see SGI's January 2018 *Shallow Soil Closure Report*). An automated product recovery system was brought online during August 2016 and SVE and/or biosparge wells were 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 wells pumping to the groundwater extraction and treatment system (GWETS) for hydrocarbon extraction of dissolved-phase subsurface impacts, historically included wells installed in the northwest corner of the Site (GW-2 and GW-13), the central area (GW-14R, which was not connected to the GWETS due to the presence of LNAPL at the time), and the eastern area (GW-15, GW-16, and GMW-58, which was not connected to the GWETS when SGI/Apex took over the project).

The GWETS utilizes electric pumps in each of the GWE wells to extract groundwater into a shared surge tank. Groundwater is then pumped from the surge tank through three particulate-removal bag filter vessels in series (BF1, BF2, and BF3), two MYCELX vessels in series (MX-7 and MX-21) for the removal of residual free product and/or oils/grease, and three granular activated carbon (GAC) vessels in series (2,000-pound GAC-1, 2,000-pound GAC-2, and 1,500-pound GAC-3). The groundwater is then pumped through various media canisters and drums for metals treatment/removal prior to being discharged to the storm drain.

Operation of the GWETS was conducted in accordance with CI No. 7585 and South Coast Air Quality Management District (SCAQMD) Permit to Operate G6962, A/N 501180. Discharge of the treated groundwater was conducted in accordance with National Pollutant Discharge Elimination System (NPDES) permit CAG994004 until February 27, 2019 when the system was shut down pending approval of the sewer discharge permit application. The GWETS was restarted on October 10, 2019 and is operating in accordance with Sanitation Districts of Los Angeles County Industrial Wastewater Discharge Permit number 22453. Active GWE wells are identified in Section 3.1 and Tables 2A through 2C.

1.2.2 Biosparge System

The biosparge wells for hydrocarbon removal from dissolved-phase subsurface impacts are located in areas throughout the Site. The biosparge system was off-line pending completion of soil cleanup activities per SGI's January 2018 *Shallow Soil Closure Report*. System recommissioning work was completed during Fourth Quarter 2018 in accordance with SGI's June 30, 2017 *Remediation Well Installation Update Report*, and July 11, 2018 *Well Installation Completion Report*. The recommissioned biosparge system includes 109 biosparge wells (Table 1) connected to the system via 11 total air supply trunklines. Injection air is supplied to the wells by a rotary claw compressor and cooled by a heat exchanger before delivery to the wells via the active air supply trunkline. The trunklines are connected to a common manifold and injection air is controlled by solenoids on each trunkline. The injection cycle duration and frequency are controlled by timers and total injection duration is recorded by hour meters for each trunkline. Biosparge system shakedown testing was conducted in late December 2018, and system operation resumed in early 2019.

1.2.3 Soil Vapor Extraction Systems

As illustrated on Figure 2, the SVE well network for hydrocarbon extraction from vadose zone subsurface impacts historically included 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 were installed within the eastern area and southern area of the Site during November 2016 and June/July 2017, as summarized in SGI's June 30, 2017 *Remediation Well Installation Update Report*. Wells VEW-38, VEW-39 and VEW-40 were brought online to the carbon vapor extraction system (VES) in June 2017, and 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 were brought online in August 2017. The new SVE wells were brought online following the completion of tie-in work to the carbon VES. Most of these wells were subsequently tied into the temporary 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 horizontal wells (HW-1, HW-5 and HW-7) that span through the entire former tank farm 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 temporary thermal oxidizer VES was completed on February 14, 2018, and wells RW-34 through RW-50 were tied in and brought online on June 27, 2018. The permanent full-scale thermal oxidizer VES (hereafter referred to as thermal oxidizer VES) was installed and tested and system startup began on March 13, 2019.

Each VES utilizes a blower to remove soil vapors from the subsurface. The extracted vapors are 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.

1.2.3.1 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 currently conducted in accordance with SCAQMD Permit to Operate G12863, A/N 518989 issued on April 15, 2011. This permit was modified under A/N 568793 and a Permit to Construct was issued on March 6, 2015 to additionally allow for above ground soil treatment activities at the Site which were completed in March 2017 (see Section 1.2.5 for further details). System operational data is summarized in Tables 3A through 3C. Active SVE wells associated with the system are identified in Section 3.2 and Table 4.

1.2.3.2 Thermal Oxidizer Vapor Extraction System

A temporary thermal oxidizer VES began operation on January 8, 2018. The temporary thermal oxidizer VES was intended to treat vapors associated with the relatively high concentration SVE wells that were originally tied into the carbon VES, as discussed in SGI's May 15, 2018 *Remediation*

Status Report - First Quarter 2018. These high concentration SVE wells were connected to the carbon VES in late June and early August 2017. Additional wells in the Southern Area of the Site (RW-34 through RW-50) were brought online to the temporary thermal oxidizer VES in June 2018. The system was shut down on January 8, 2019 to comply with the SCAQMD Various Locations Permit F97121 which limited the operational period to one calendar year.

The permanent full-scale thermal oxidizer VES was installed and tested shortly after the temporary VES was shut down in March 2019. The gas meter was installed in mid-February 2019, and the natural gas line was activated on February 26, 2019. The system manufacturer's service technicians (Baker Furnace) conducted the initial system equipment testing on March 4, 2019 and system startup began on March 13, 2019.

Soil vapors from the thermal oxidizer VES knockout tank are heated to a minimum temperature of 1,400 degrees Fahrenheit (°F) prior to atmospheric discharge from a 25-foot tall stack. Operation of the thermal oxidizer VES is conducted in accordance with SCAQMD Permit to Construct/Operate G52288, A/N 602424. The SCAQMD Rule 1166 notification form for SVE system startup was provided to SCAQMD on March 13, 2019. System operational data is summarized in Tables 5A through 5C. Active SVE wells associated with the thermal oxidizer systems are identified in Section 3.2 and Table 6.

1.2.4 LNAPL Removal

LNAPL removal at the Site is accomplished via both physical and automated processes. Select wells are gauged for floating product 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 7A through 7W. A map showing the May 20, 2020 total petroleum hydrocarbons in groundwater is presented in Figure 3.

1.2.5 Above Ground 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. 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 and brought online April 24, 2015 following the completion of above ground treatment cell construction activities.

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 ground surface. The goal of this remediation was to clean up 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* and September 2018 *Addendum to the Shallow Soil Closure Report – Western Portion*. The LARWQCB granted a no further action (NFA) determination for the shallow soil in the upper 10 feet of the Site's eastern 15-acre parcel on April 19, 2018. The NFA determination was contingent upon declaration of covenant and environmental restriction, which was recorded on September 27, 2018. Regulatory closure of shallow soil in the western part of the Site is pending.

1.2.6 Soil Management

The LARWQCB previously approved the March 8, 2012 *Onsite Soil Management Plan* prepared and amended by Parsons Corporation (May 2012 *Response to April 10, 2012 RWQCB Comments on Onsite Soil Management Plan*). Both documents and the LARWQCB approval (February 26, 2014) specified the number of samples and analytical requirements. Soil generated from trenching and drilling operations at the Site was tested according to that approved soil management plan protocol.

2.0 OPERATIONS, MAINTENANCE AND MONITORING

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

- Performed minimum weekly maintenance and monitoring of the GWETS, carbon VES, thermal oxidizer VES, LNAPL Recovery, and the biosparge system.
- 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.
- Performed periodic gauging of wells connected to the product recovery system, along with adjusting associated pump cycle durations and frequencies to optimize LNAPL removal.
- Continued extraction efforts from wells with LNAPL and monitored for thicknesses of LNAPL sufficient to resume pumping in off-line wells.

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

2.1 Groundwater Extraction and Treatment System

The GWETS was restarted on October 10, 2019. GWE wells pumping to the GWETS this quarter were GW-14R, GWM-31 and GW-16. System OM&M details and monthly performance results are summarized in Tables 2A, 2B and 2C.

A historical summary of influent water analytical sample results is provided in Table 8. Per the new sewer discharge permit, sampling will be conducted semiannually and quarterly (chemical oxygen demand [COD] and suspended solids [SS] only) beginning January 1, 2020.

Wells GMW-31 and GW-14R, which has had no measurable LNAPL since December 2019, were connected to the GWETS on March 11, 2020 and began operation on May 14, 2020 and May 18, 2020, respectively. The GWETS was shut down on June 30, 2020 to enhance the water treatment process.

2.2 Soil Vapor Extraction Systems

The carbon VES system was restarted on November 21, 2019 upon installation of a new blower. System OM&M details and performance results are summarized in Tables 3A, 3B and 3C. Historical field photoionization detector (PID) readings from individual wells are summarized in Tables 9A through 9D; historical analytical vapor sampling results from individual wells are summarized in Table 10.

A temporary thermal oxidizer VES operated from January 8, 2018. The system was shut down on January 8, 2019 to comply with the SCAQMD Various Locations Permit which limited the operational period to one calendar year.

A permanent thermal oxidizer VES was installed and startup was conducted on March 13, 2019. System operational hours were limited to daytime hours from July to mid-August due to ongoing noise concerns from nearby residents. Sound blankets were installed in August and the thermal oxidizer began unrestricted operation (24/7) on August 26, 2019. The thermal oxidizer is intended to treat vapors associated with the relatively high concentration SVE wells that were originally tied into the carbon VES, as discussed in SGI's May 15, 2018 *Remediation Status Report - First Quarter 2018*. All such wells that have since been installed and connected as part of ongoing remediation expansion activities at the Site have been tied into the thermal oxidizer to cost-effectively accelerate the overall remediation project. Compliance and/or performance soil vapor samples from the carbon and thermal oxidizer VESs were collected in Tedlar bags during the reporting period as summarized in Tables 4 and 6. All vapor samples were delivered to Environmental Laboratory Accreditation Program (ELAP) accredited American Analytics for analysis.

The vapor samples were analyzed for the following:

- Total petroleum hydrocarbons quantified as gasoline (TPHg) using United States Environmental Protection Agency (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 4 and 6, respectively. The laboratory analytical reports and chain-of-custody documents for the thermal oxidizer and carbon VES samples are included in Appendix A. As the Table 6 results indicate, thermal oxidizer VES concentrations have remained elevated since April 2019 likely due to the volatilization induced by the expanded biosparging operations in the eastern and central areas. Maximum gasoline range organic (GRO), benzene and MTBE concentrations this period are 7,700 micrograms per liter ($\mu\text{g/L}$), 11 $\mu\text{g/L}$ and non-detect (ND) $<2.0 \mu\text{g/L}$, respectively. Maximum historic levels for these constituents were previously 14,000 $\mu\text{g/L}$ for GRO (October 2019) and 21 $\mu\text{g/L}$ for benzene (August 2019). MTBE has never been detected.

2.3 Biosparge System

The biosparge wells associated with the original system are located in areas throughout the central area 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 SVE and biosparge wells RW-1 through RW-34 were installed during late June and early July 2017 with additional wells, RW-35 through RW-50 and TFB-1 through TFB-38, 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*, June 30, 2017 *Remediation Well Installation Update Report*, and July 11, 2018 *Well Installation Completion Report*.

Conveyance piping installation activities concluded in October 2018, and the system equipment assembly was completed in early December 2018. System equipment shakedown testing was conducted in mid-December 2018, and preliminary system startup occurred during the week of December 24, 2018. System operation resumed in early 2019. Biosparge operations conducted during this quarter continued in the central area, the eastern area, and the southern area wells. Biosparge system OM&M details during this quarter are provided in Tables 11A through 11C.

2.4 LNAPL Removal Via Bailing, Skimming and Absorbent Socks

Depth to product (DTP) and depth to groundwater (DTW) were 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 reporting period. LNAPL was removed from select wells via manual bailing, active pumping using a portable product skimmer and by utilizing absorbent socks. Mass and volume removal estimates using these techniques are summarized in Tables 7A and 7B along with associated LNAPL gauging results. All product is placed in an AST located within the existing treatment compound.

2.5 LNAPL Removal Via 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. At this time, the system consists of six pneumatically activated product removal pumps deployed in key wells located in the north-central portion of the Site. Two additional pumps were procured during October 2017 in response to increasing LNAPL thickness trends from the prior quarter. In early October 2018, an additional eight product removal pumps were brought online, expanding the system capacity to allow operation of up to 16 product removal pumps simultaneously.

All pumped product is routed to an AST located within the existing treatment compound via double contained conveyance piping. The product stored in the AST is subsequently removed off-site by a licensed transport, recycling and disposal company (Appendix B). LNAPL removal is determined individually for active 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. A portion of the total AST product volume is assigned to each active pump based on well-specific cycle duration and frequency values which are programmed on the basis of current gauging and yield data. Product recovery system OM&M continued through the current quarter with limited operation due to the decrease in LNAPL in wells. OM&M details for all wells connected to the product recovery system during this quarter are provided in Tables 7E through 7W.

3.0 SUMMARY OF REMEDIATION PROGRESS

The following sections describe remedial progress at the Site.

3.1 Groundwater Extraction and Treatment System

The GWETS was restarted on October 10, 2019. Based on the total petroleum hydrocarbons quantified as diesel (TPHd) results for influent water samples and total groundwater extracted, an estimated 9,948 pounds of TPHd have been removed since April 1996 (Table 2C).

3.2 Soil Vapor Extraction Systems

The carbon VES system was restarted on November 21, 2019 upon installation of a new blower. Wells HW-1, HW-5, HW-7 and newly installed HW-8 and HW-9 are connected to the carbon VES system. Well HW-3 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. Flow and mass extraction testing were conducted on well HW-3 in December 2018, and results indicated very low vapor concentrations and minimal flow rate. The well was abandoned on June 7, 2019 and replaced with two new horizontal wells, HW-8 and HW-9. These two new wells were connected to the carbon VES in July 2019 (Table 9A). On July 7, 2020 wells (eastern area) RW-1, RW-7, RW-8, RW-13, RW-14, RW-3, RW-4, RW-9, RW-10; (southern area) RW-30, RW-31, RW-32, VEW-40, RW-26, RW-28, RW-33, RW-22, RW-29, RW-35, RW-40, RW-36, RW-37, RW-41, RW-42, RW-47, RW-48, RW-49, RW-50 were connected to the carbon VES system in preparation for the installation of the catalytic cell for the thermal oxidizer VES.

Wells (central area) TFR-21, TFR-26, TFR-27, TFR-28, TFR-34, TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW, TFR-23, TFR-24, TFR-30, TFR-33, TFR-17, TFR-18, TFR-19, TFR-22, TFR-25, TFR-13, TFR-14, TFR-15, TFR-7, TFR-9, TFR-12 were used as the extraction points for the thermal oxidizer VES based on field photoionization detector (PID) readings (Tables 9B through 9D) and previous quarters laboratory concentrations (Table 10). On August 26, 2020, all wells in the eastern area were reconnected back to the thermal oxidizer VES.

The total mass of VOCs removed via the carbon and the thermal oxidizer extraction systems during this period was approximately 19,665 pounds (1,467 pounds via the carbon VES and 18,198 pounds via the thermal oxidizer VES). An estimated 2,984,807 pounds have been removed since April 1996 (Table 3C) via the carbon VES and approximately 248,910 pounds removed via the temporary and permanent thermal oxidizer VESs since January 2018 (Table 5C). Note that the total estimated mass of VOCs removed via SVE does not account for any mass removed *in-situ* via biodegradation.

3.3 Biosparge System

Recommissioning of the biosparge system was completed during Fourth Quarter 2018, and system startup operations began in late December in the central area wells BSP-21 through BSP-24, BSP-27, BSP-25, BSP-26, BSP-28 through BSP-30; operations began in mid-April 2019 in the eastern

area wells BSP-10 thru BSP-14, RW-4, RW-5, RW-9, RW-10, RW-11, RW-14, RW-18. On August 23, 2019, sparging operations were phased into the southern area wells BSP-19, BSP-20, RW-21, RW-23, RW-26, BSP-17, BSP-18, RW-30, RW-31, RW-32, RW-34, BSP-15, BSP-16, RW-19, RW-20, RW-25, and RW-28. Additional southern area wells RW-22, RW-24, RW-27, RW-29, RW-33, RW-43, RW-35, RW-38, RW-39, RW-45, RW-36, RW-37, RW-41, RW-42, RW-46, RW-47, RW-48, RW-49, and RW-50 were brought online on September 20, 2019. Additional eastern area wells RW-1, RW-3, RW-12, and RW-13 were brought online on November 15, 2019. Additional central area wells TFB-7, TFB-9, TFB-10, TFB-11, TFB-12, TFB-13, TFB-14, TFB-1, TFB-2, TFB-4, TFB-5, TFB-6, and TFB-8 were brought online on November 18, 2019.

Central area wells TFB-21, TFB-26, TFB-27, TFB-28, TFB-31, TFB-34, TFB-16, TFB-17, TFB-20, TFB-32, TFB-36, TFB-37, and TFB-38 continue to target areas where the LNAPL plume has receded. Startup of additional inactive biosparge wells will be evaluated based on LNAPL plume trends and monitoring data collected as part of ongoing system optimization efforts.

3.4 LNAPL Gauging and Removal

During the reporting period, DTW and DTP were measured in Hollifield Park wells GMW-62, GMW-68, and on-site wells TFR-18, TFR-22, TFR-24, TFR-29, and RTF-18-E (Tables 7A through 7W). Overall, LNAPL thickness and removal rates decreased in Third Quarter 2020.

A total of approximately 21 gallons (142 pounds) of LNAPL was removed from the Site during this quarter, and an estimated 10,245 gallons (69,193 pounds) of LNAPL has been removed since January 2014.

3.4.1 LNAPL Removal Via Bailing, Skimming and Absorbent Socks

Approximately 4.8 gallons (33 pounds) of LNAPL was removed via manual bailing, active pumping using a portable product skimmer and/or by utilizing absorbent socks from wells GMW-62 and GMW-68 (Tables 7A and 7B, respectively).

3.4.2 LNAPL Removal Via Product Recovery System

Wells TFR-9, GMW-18, TFR-12, TFR-14, TF-15, TFR-15, TF-16, GW-14R, TFR-22, TFR-24, TFR-29, and TFR-33, RTF-18-E, RTF-18-NW, RTF-18-N, TF-18, RTF-18-NNW and RTF-18-W were connected to an automated product recovery system which included 16 total active recovery pumps. Pumping resumed in well RTF-18-E in early January 2019 and was taken back off-line in late February 2019 due to insufficient yield. Pumping resumed in September 2019, and shut down again in mid-February 2020 due to insufficient yield. Well RTF-18-NNW has remained off-line due to insufficient yield since March 2018. Based on low LNAPL yields during initial testing from wells TFR-27, and GMW-45 conducted in early October 2018, skimmers have remained off-line since mid-October 2018. If LNAPL thicknesses increase, pumping may resume from these wells during the next reporting period.

Approximately 16 gallons (110 pounds) of LNAPL was pumped from well TFR-29 during this reporting period (Table 7P).

LNAPL gauging results along with cumulative mass and volume removal estimates are summarized in Tables 7E through 7W. As the tables indicate, product thicknesses generally decreased during the current reporting period. Consequently, well TFR-29 was the only active pumping well at the end of the 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 will be monitored and sampled. Continuous thermal oxidizer VES operation began on August 26, 2019 after the installation of sound blankets.

Reconfiguration of the respective vapor extraction systems will be conducted regularly to allow for cost-effective site-wide cleanup. Thus, as concentration 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 based on recent electrical load testing results, the existing service capacity will allow simultaneous full-time operation of both the carbon VES and the permanent full-scale thermal oxidizer along with the other remedial equipment.

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 northwest corner of the Site and the eastern area, along with natural attenuation, has been successful in preventing further impacted groundwater from flowing off-site, and has 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 central area from wells GMW-31 and GW-14R and in the eastern area from well GW-16 will continue to assist with containment until further evaluation of natural attenuation is conducted. 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. Currently, well TFR-29 is the only active pumping well.

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.

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 may also be made on the basis of periodic bail down testing conducted to establish current transmissivity values for correlating apparent to actual product thicknesses.

Biosparging operations will be optimized to enhance volatilization and biodegradation in impacted areas, and will expand to target areas where the LNAPL plume has receded. Periodic collection of

pressure response and field parameters data from monitoring wells within the treatment zone will be used to optimize operations and confirm the biosparging zone of influence. Additionally, the LNAPL gauging data will be used to evaluate whether scaling back biosparging operations in some areas is necessary to minimize the risk of mobilizing the LNAPL plume via groundwater mounding.

5.0 PLANNED FOURTH QUARTER 2020 ACTIVITIES

During the next reporting period, DLA plans to continue to focus in-situ remedial efforts on the central area, eastern area, and southern area of the Site. Following is a summary of planned Fourth Quarter 2020 OM&M activities:

- Continue minimum weekly maintenance and monitoring of the thermal oxidizer VES. Tasks include measuring individual well vapor concentrations with an organic vapor analyzer (OVA) and collecting/analyzing monthly influent and effluent vapor samples.
- Collect individual extraction well vapor samples for laboratory analysis as needed. Vapor samples will be collected from horizontal wells and extraction wells.
- Continue regular LNAPL gauging and removal activities (as applicable), including wells GWM-62 and GMW-68 (both located off-site in Holifield Park), GMW-7, TF-19, and product recovery system wells TFR-9, GMW-18, TFR-12, TF-15, TFR-14, TFR-15, TF-16, GW-14R, TFR-18, TFR-22, TFR-24, TFR-29, TFR-33, RTF-18-E, RTF-18-NW, RTF-18-N, RTF-18-NNW, RTF-18-W, TF-18, TFR-27, and GMW-45.
- Gauge wells TFR-17, TFR-19, TFR-32, TFR-30, TFR-5, TFR-7, TFR-21, and TFR-26 periodically as SVE is applied (via the thermal oxidizer VES) in order to evaluate any appearance and/or increase in LNAPL thicknesses and the potential for active/passive product recovery.
- Continue controlled product recovery system OM&M from well TFR-29, located in the north-central portion of the Site.
- Continue to utilize the carbon VES for focused extraction from the relatively low concentration SVE wells 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).
- Continue the phased expansion of the permanent thermal oxidizer VES operations to cost-effectively process high vapor concentration (thermal mode above approximately 3,000 parts per million [ppm]) to moderate vapor 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.
- Continue to evaluate influent vapor concentrations to the thermal oxidizer VES to determine when the system is ready for the installation of the catalytic cell.
- Restart regular GWETS operations and collect groundwater samples for laboratory analysis as required by the sewer discharge permit.
- Continue to evaluate GWE flow rates and confirm contaminant containment.

Ongoing remediation activities and progress will be described in the *Fourth Quarter 2020 Remediation Progress Report* to be submitted by February 15, 2020.

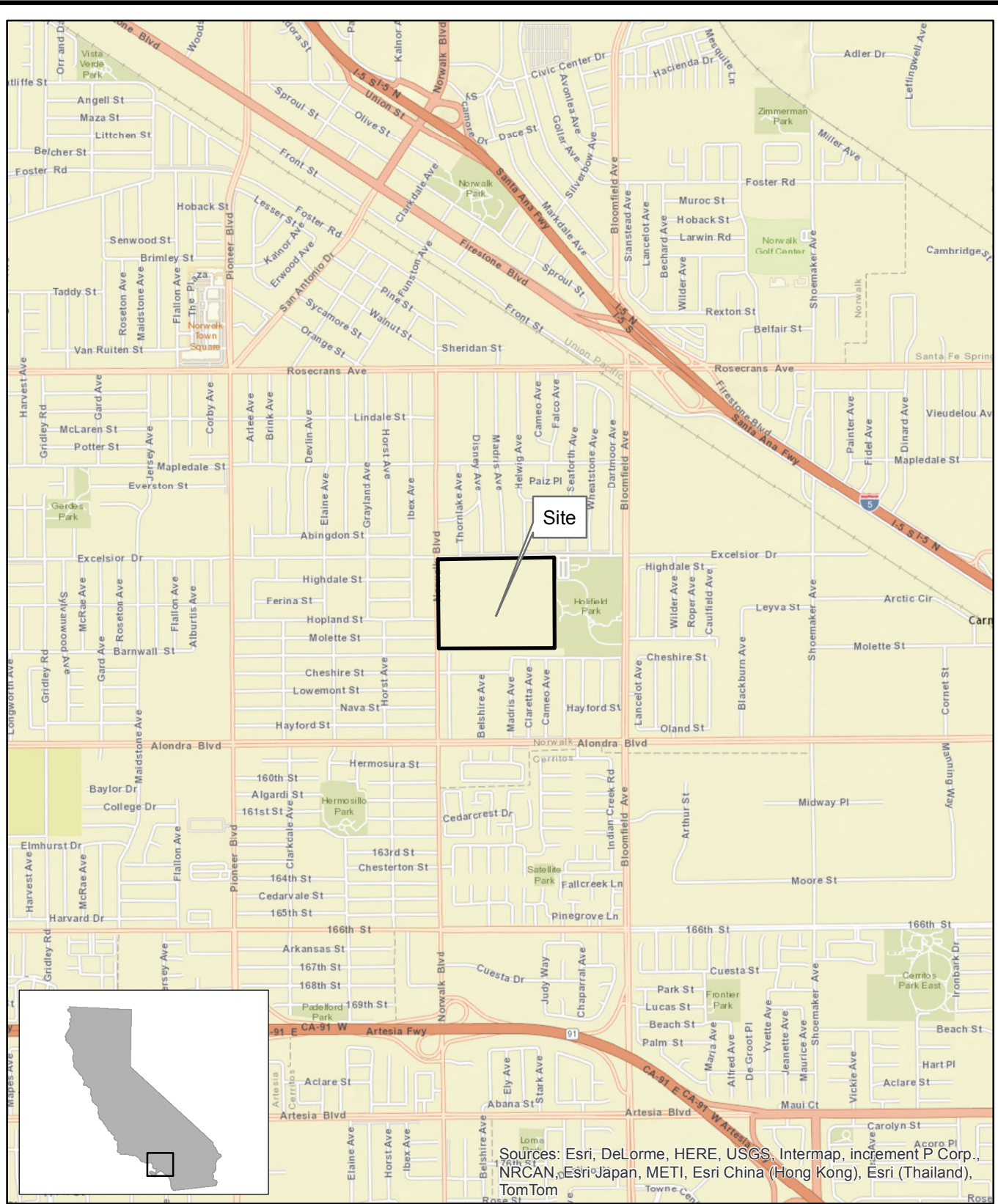
6.0 LIMITATIONS

This document was prepared for the exclusive use of the DLA and the LARWQCB for the express purpose of complying with a client or regulatory directive for environmental investigation or restoration. SGI and DLA must approve any re-use of this work product in whole or in part for a different purpose or by others in writing. If any such unauthorized use occurs, it shall be at the user's sole risk without liability to SGI or DLA.

To the extent that this report is based on information provided to SGI by third parties, including DLA, their direct contractors, previous personnel, 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 and LARWQCB personnel in applying their own professional judgment in making decisions related to the property. SGI cannot provide conclusions on environmental conditions outside the completed scope of work. SGI cannot guarantee that future conditions will not change and affect the validity of the presented conclusions and recommended work. No warranty or guarantee, whether expressed or implied, is made with respect to the data or the reported findings, observations, conclusions, and recommendations.

FIGURES



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

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

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

SCALE= 1:24,000



1962 FREEMAN AVENUE SIGNAL HILL, CA 90755
(562) 597-1055

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

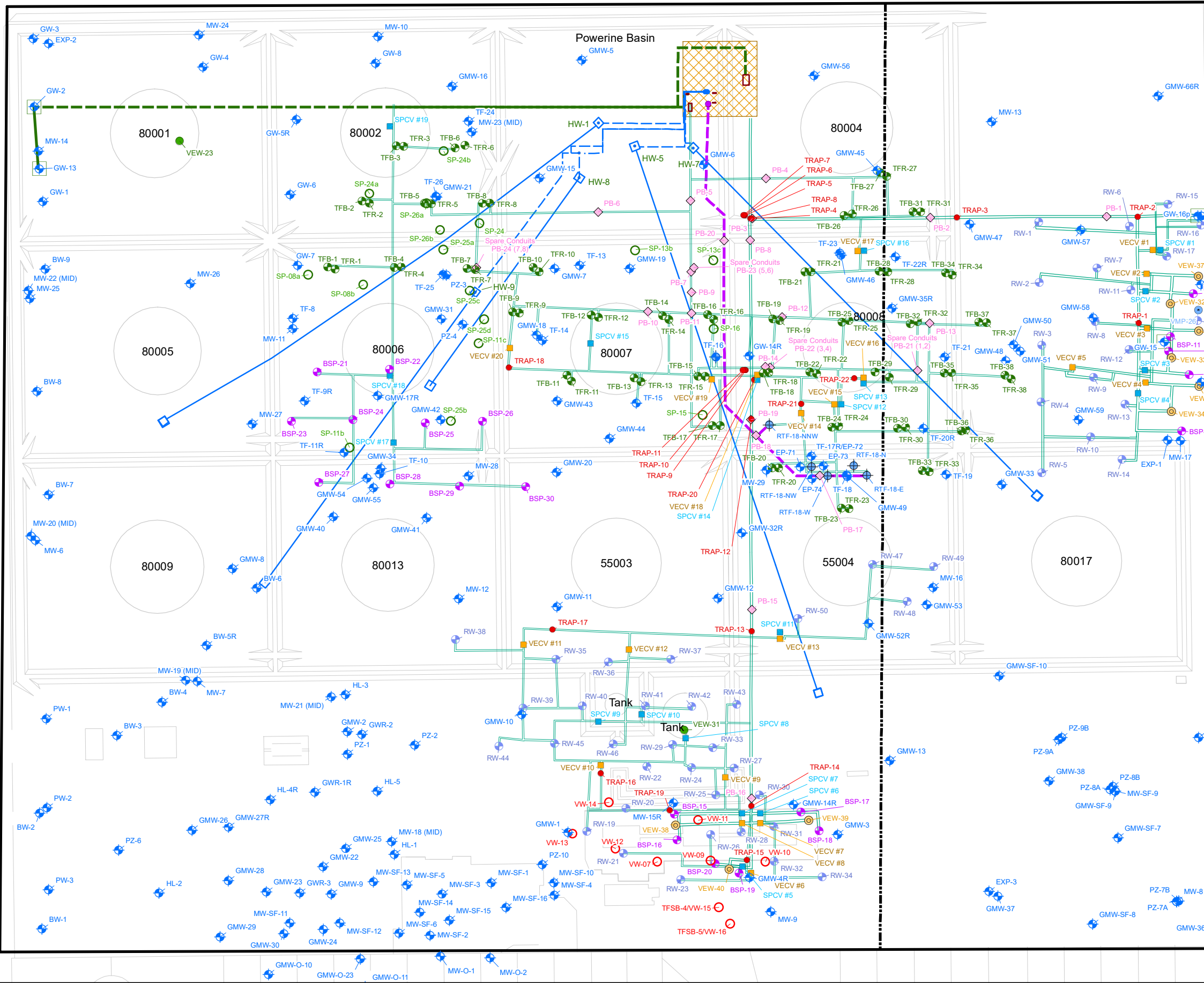
SITE LOCATION MAP

FIGURE
1


























Excelsior Dr

Powerline Basin

Norwalk Blvd



Legend

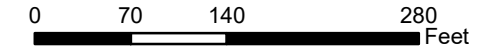
-  Former Above Ground Storage Tanks
-  DFSP Norwalk Border
-  Fence
-  Berm
-  Treatment System Enclosure
-  Below Grade Trenching and Piping to Remediation Wells
-  Existing Horizontal Vapor Extraction Wells
-  Below Grade Groundwater Extraction System Piping
-  Above Grade Groundwater Extraction System Piping
-  Product Recovery System Piping
-  Horizontal Vapor Extraction System Piping
-  Western Boundary of Eastern 15-Acre Parcel
-  System Manifold within Treatment Enclosure
-  Total Fluid and Groundwater Monitoring Wells
-  TF-18 Area LNAPL Recovery Wells
-  Biosparging Wells
-  Vapor Extraction Wells (November 2016)
-  Biosparging and Vapor Extraction Wells
-  Co-Located Total Fluid and Biosparge Wells
-  Vapor Extraction Wells (2004)
-  Sparging Points (August 2004)
-  Pull Box (for Wire or Tubing)
-  PVC Condensate Trap 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:
091-NDLA-026	01/15/2019	PW / SM	BT

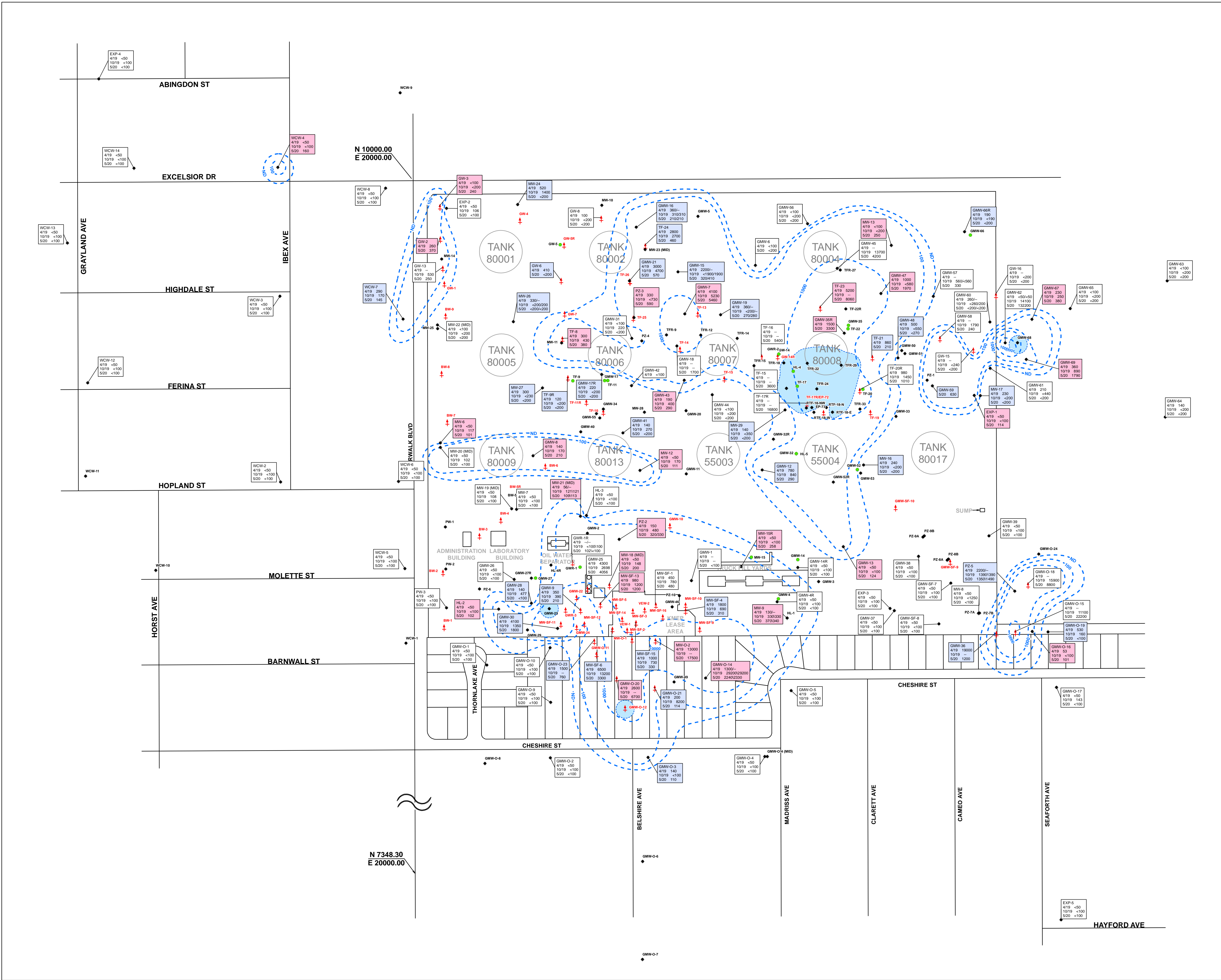


Site Map Showing All Well and Piping Locations



1962 Freeman Avenue Signal Hill, CA 90755
(562) 597-1055

Figure
2



Explanation

- GMW-5** ◆ Monitoring well and designation
 - VEW-1** † Vapor extraction, groundwater extraction, total fluids, or free product extraction well used for site remediation
 - TF-17** ● Decommissioned well
- Total petroleum hydrocarbons (TPH) results in micrograms per liter (µg/L) for the three most recent semiannual events; where the databox is shown in white, the concentration of TPH has remained similar (concentration change is less than 10%) at that location since the first semiannual monitoring event of the previous year, or the dataset shown does not provide a basis for comparison.
- Where the databox is shown in red, the concentration of TPH has increased by 10% or more at that location since the first semiannual monitoring event of the previous year.
- Where the databox is shown in blue, the concentration of TPH has decreased by 10% or more at that location since the first semiannual monitoring event of the previous year.
- <100 Not detected at or above laboratory reporting limit shown
 - Not sampled/not analyzed
 - <100/<100 Primary sample analytical result/duplicate sample analytical result (µg/L)
 - ND Estimated extent of detected dissolved TPH in groundwater (concentration dependent on laboratory reporting limit); dashed where inferred
 - 1,000 Lines of equal TPH concentration (µg/L) in groundwater; dashed where inferred
 - Estimated extent of measurable light nonaqueous phase liquid (LNAPL, free product) on groundwater; dashed where inferred

Notes

1. TPH data provided on this figure and used for contouring represent the sum of detected concentrations of TPH quantified as diesel and as gasoline.
2. Fuel storage tanks depicted on the figure are historical structures and have been removed from the site.

Survey Notes

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

TOTAL PETROLEUM HYDROCARBONS IN GROUNDWATER
May 2020

DEFENSE FUEL SUPPORT POINT NORWALK
Norwalk, California

By: Ann Espejo Date: 6/2020 Project No: KMNWCR20

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TABLES

TABLE 1
Remediation Well Summary
DFSP Norwalk
15306 Norwalk Blvd., Norwalk, CA

Remediation Area	Location	Well	Notes	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function
Central Area	Northwest Corner (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
Central Area	North (AST 80002, AST 80004, AST 80006, AST 80007, AST 80008, AST 80001, AST 55004)	VEW-22	16	--	--	25	15 - 25	SVE
		HW-1	14	--	--	25	Continuous	SVE
		HW-3	14, 17, 18	--	--	25	Continuous	SVE
		HW-5	14	--	--	25	Continuous	SVE
		HW-7	14	--	--	25	Continuous	SVE
		HW-8	19	06/07/19	--	30	60	SVE
		HW-9	19	06/07/19	--	29	220	SVE
		GMW-21	1	08/02/91	76.23	50	25 - 50	TFE/GWE
		GMW-31		06/02/93	76.50	65	25 - 50	GWE
		GW-14R	2	11/08/16	78.77	50	25 - 50	GWE
		SP8a	15	--	--	50	48 - 50	Biosparge
		SP-8b	15	--	--	50	48 - 50	Biosparge
		SP-11b	15	--	--	50	48 - 50	Biosparge
		SP-11c	15	--	--	50	48 - 50	Biosparge
		SP-13b	3, 15	--	--	50	48 - 50	Biosparge
		SP-13c	15	--	--	50	48 - 50	Biosparge
		SP-15	4, 15	--	--	50	48 - 50	Biosparge
		SP-16	15	--	--	50	48 - 50	Biosparge
		SP-24	15	--	--	50	48 - 50	Biosparge
		SP-24a	15	--	--	50	48 - 50	Biosparge
		SP-24b	15	--	--	50	48 - 50	Biosparge
		SP-25a	15	--	--	50	48 - 50	Biosparge
		SP-25b	15	--	--	50	48 - 50	Biosparge
		SP-25c	15	--	--	50	48 - 50	Biosparge
		SP-25d	15	--	--	50	48 - 50	Biosparge
		SP-26	15	--	--	50	48 - 50	Biosparge
		SP-26a	15	--	--	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		



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15306 Norwalk Blvd., Norwalk, CA

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Central Area	North (AST 80002, AST 80006, AST 80008, 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
Central Area	North (AST 80002, AST 80004, AST 80006, AST 80007, AST 80008, AST 80013, AST 55003, AST 55004)	BSP-21	10	12/07/17	--	46	43 - 45	Biosparge
		BSP-22	10	12/07/17	--	46	43 - 45	Biosparge
		BSP-23	10	12/08/17	--	46	43 - 45	Biosparge
		BSP-24	10	12/07/17	--	46	43 - 45	Biosparge
		BSP-25	10	12/08/17	--	46	43 - 45	Biosparge
		BSP-26	10	12/08/17	--	46	43 - 45	Biosparge
		BSP-27	10	12/07/17	--	46	43 - 45	Biosparge
		BSP-28	10	12/07/17	--	46	43 - 45	Biosparge
		BSP-29	10	12/08/17	--	46	43 - 45	Biosparge
		BSP-30	10	12/11/17	--	46	43 - 45	Biosparge
		TFR-1	10	12/13/17	--	40	20 - 40	TFE, SVE
		TFR-2	10	12/12/17	--	40	20 - 40	TFE, SVE
		TFR-3	10	12/12/17	--	40	20 - 40	TFE, SVE
		TFR-4	10	12/13/17	--	40	20 - 40	TFE, SVE
		TFR-5	10	12/12/17	--	40	20 - 40	TFE, SVE
		TFR-6	10	12/12/17	--	40	20 - 40	TFE, SVE
		TFR-7	10	12/13/17	--	40	20 - 40	TFE, SVE
		TFR-8	10	12/12/17	--	40	20 - 40	TFE, SVE
		TFR-9	10	12/13/17	--	40	20 - 40	TFE, SVE
		TFR-10	10	12/11/17	--	40	20 - 40	TFE, SVE
		TFR-11	10	12/11/17	--	40	20 - 40	TFE, SVE
		TFR-12	10	12/11/17	--	40	20 - 40	TFE, SVE
		TFR-13	10	12/15/17	--	40	20 - 40	TFE, SVE
		TFR-14	10	12/13/17	--	40	20 - 40	TFE, SVE
		TFR-15	10	12/14/17	--	40	20 - 40	TFE, SVE
		TFR-16	10	12/14/17	--	40	20 - 40	TFE, SVE
		TFR-17	10	12/14/17	--	40	20 - 40	TFE, SVE
		TFR-18	10	12/14/17	--	40	20 - 40	TFE, SVE
		TFR-19	10	12/12/17	--	40	20 - 40	TFE, SVE
		TFR-20	10	12/15/17	--	40	20 - 40	TFE, SVE
TFR-21	10	12/11/17	--	40	20 - 40	TFE, SVE		
TFR-22	10	11/30/17	--	40	20 - 40	TFE, SVE		
TFR-23	10	11/29/17	--	40	20 - 40	TFE, SVE		
TFR-24	10	11/30/17	--	40	20 - 40	TFE, SVE		
TFR-25	10	11/30/17	--	40	20 - 40	TFE, SVE		
TFR-26	10	11/29/17	--	40	20 - 40	TFE, SVE		
TFR-27	10	11/29/17	--	40	20 - 40	TFE, SVE		
TFR-28	10	11/29/17	--	40	20 - 40	TFE, SVE		
TFR-29	10	11/29/17	--	40	20 - 40	TFE, SVE		
TFR-30	10	11/29/17	--	40	20 - 40	TFE, SVE		



TABLE 1
Remediation Well Summary
 DFSP Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Remediation Area	Location	Well	Notes	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function
Central Area	North (AST 80002, AST 80004, AST 80006, AST 80007, AST 80008, AST 80013, AST 55003, AST 55004)	TFR-31	10	11/29/17	--	40	20 - 40	TFE, SVE
		TFR-32	10	11/30/17	--	40	20 - 40	TFE, SVE
		TFR-33	10	11/28/17	--	40	20 - 40	TFE, SVE
		TFR-34	10	11/28/17	--	40	20 - 40	TFE, SVE
		TFR-35	10	11/29/17	--	40	20 - 40	TFE, SVE
		TFB-1	10	12/06/17	--	46	43 - 45	Biosparge
		TFB-2	10	12/05/17	--	46	43 - 45	Biosparge
		TFB-3	10	12/05/17	--	46	43 - 45	Biosparge
		TFB-4	10	12/06/17	--	46	43 - 45	Biosparge
		TFB-5	10	12/06/17	--	46	43 - 45	Biosparge
		TFB-6	10	12/05/17	--	46	43 - 45	Biosparge
		TFB-7	10	12/06/17	--	46	43 - 45	Biosparge
		TFB-8	10	12/05/17	--	46	43 - 45	Biosparge
		TFB-9	10	12/04/17	--	46	43 - 45	Biosparge
		TFB-10	10	12/04/17	--	46	43 - 45	Biosparge
		TFB-11	10	12/04/17	--	50	48 - 50	Biosparge
		TFB-12	10	12/01/17	--	46	43 - 45	Biosparge
		TFB-13	10	12/01/17	--	46	43 - 45	Biosparge
		TFB-14	10	11/30/17	--	46	43 - 45	Biosparge
		TFB-15	10	11/27/17	--	46	43 - 45	Biosparge
		TFB-16	10	11/28/17	--	46	43 - 45	Biosparge
		TFB-17	10	11/28/17	--	46	43 - 45	Biosparge
		TFB-18	10	11/27/17	--	46	43 - 45	Biosparge
		TFB-19	10	11/28/17	--	46	43 - 45	Biosparge
		TFB-20	10	11/30/17	--	46	43 - 45	Biosparge
		TFB-21	10	11/27/17	--	46	43 - 45	Biosparge
		TFB-22	10	11/27/17	--	46	43 - 45	Biosparge
		TFB-23	10	11/28/17	--	46	43 - 45	Biosparge
		TFB-24	10	11/27/17	--	46	43 - 45	Biosparge
		TFB-25	10	11/27/17	--	46	43 - 45	Biosparge
		TFB-26	10	11/22/17	--	46	43 - 45	Biosparge
		TFB-27	10	11/21/17	--	46	43 - 45	Biosparge
		TFB-28	10	11/22/17	--	46	43 - 45	Biosparge
		TFB-29	10	11/27/17	--	46	43 - 45	Biosparge
		TFB-30	10	11/27/17	--	46	43 - 45	Biosparge
		TFB-31	10	11/21/17	--	46	43 - 45	Biosparge
		TFB-32	10	11/22/17	--	46	43 - 45	Biosparge
		TFB-33	10	11/27/17	--	46	43 - 45	Biosparge
		TFB-34	10	11/21/17	--	46	43 - 45	Biosparge
		TFB-35	10	11/27/17	--	46	43 - 45	Biosparge
		RW-35	10	11/15/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-36	10	11/15/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-37	10	11/16/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-38	10	11/16/17	--	33 / 47	13 - 33 / 44 - 46	SVE / Biosparge
		RW-47	10	11/17/17	--	33 / 47	13 - 33 / 44 - 46	SVE / Biosparge
		RW-48	10	11/17/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-49	10	11/16/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-50	10	11/20/17	--	33 / 47	13 - 33 / 44 - 46	SVE / Biosparge



TABLE 1
Remediation Well Summary
DFSP Norwalk
15306 Norwalk Blvd., Norwalk, CA

Remediation Area	Location	Well	Notes	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function	
Eastern Area	North	BSP-1	11	04/18/07	--	50	47 - 49	Biosparge	
		BSP-2	11	04/18/07	--	50	48 - 50	Biosparge	
		BSP-3	11	04/17/07	--	48	46 - 48	Biosparge	
		BSP-4	11	04/17/07	--	49	47 - 49	Biosparge	
		BSP-5	11	04/17/07	--	49.5	47 - 49	Biosparge	
		BSP-6	11	04/18/07	--	49	47 - 49	Biosparge	
		BSP-7	11	04/19/07	--	48	46 - 48	Biosparge	
		BSP-8	11	04/19/07	--	48	46 - 48	Biosparge	
		BSP-9	11	04/19/07	--	48	46 - 48	Biosparge	
		BSP-10	12	11/04/16	--	46.5	44 - 46	Biosparge	
		BSP-11	12	11/04/16	--	40	38 - 40	Biosparge	
		BSP-12	12	11/04/16	--	46.5	44 - 46	Biosparge	
		BSP-13	12	11/07/16	--	46.5	44 - 46	Biosparge	
		BSP-14	12	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	13	06/21/17	-- / --		35 / 46	15 - 35 / 43 - 45	SVE / Biosparge
		RW-2	13	06/21/17	--		33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-3	13	06/21/17	--		37 / 46	17 - 37 / 43 - 45	SVE / Biosparge
		RW-4	13	06/22/17	--		34 / 46	14 - 34 / 43 - 45	SVE / Biosparge
		RW-5	13	06/22/17	--		34 / 46	14 - 34 / 43 - 45	SVE / Biosparge
		RW-6	13	06/27/17	--		37 / 46	17 - 37 / 43 - 45	SVE / Biosparge
		RW-7	13	06/26/17	--		37 / 46	17 - 37 / 43 - 45	SVE / Biosparge
		RW-8	13	06/28/17	--		38.5 / 46	18.5 - 38.5 / 43 - 45	SVE / Biosparge
		RW-9	13	06/26/17	--		35 / 46	15 - 35 / 43 - 45	SVE / Biosparge
		RW-10	13	06/22/17	--		34 / 46	14 - 34 / 43 - 45	SVE / Biosparge
		RW-11	13	06/26/17	--		36 / 46	16 - 36 / 43 - 45	SVE / Biosparge
		RW-12	13	06/23/17	--		34 / 46	14 - 34 / 43 - 45	SVE / Biosparge
		RW-13	13	06/23/17	--		35 / 46	15 - 35 / 43 - 45	SVE / Biosparge
		RW-14	13	06/23/17	--		34 / 46	14 - 34 / 43 - 45	SVE / Biosparge
		RW-15	13	06/20/17	--		38 / 46	18 - 38 / 43 - 45	SVE / Biosparge
		RW-16	13	06/20/17	--		34 / 46	14 - 34 / 43 - 45	SVE / Biosparge
		RW-17	13	06/27/17	--		39 / 46	19 - 39 / 43 - 45	SVE / Biosparge
		RW-18	13	06/20/17	--		38 / 46	18 - 38 / 43 - 45	SVE / Biosparge
		SP-21a	3, 15	--	--		50	48 - 50	Biosparge
		SP-21b	3, 15	--	--		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		
TFR-36	10	11/30/17	--		40	20 - 40	TFE, SVE		
TFR-37	10	11/28/17	--		40	20 - 40	TFE, SVE		
TFR-38	10	11/28/17	--		40	20 - 40	TFE, SVE		
TFB-36	10	11/20/17	--		46	43 - 45	Biosparge		
TFB-37	10	11/21/17	--		46	43 - 45	Biosparge		
TFB-38	10	11/20/17	--		46	43 - 45	Biosparge		

TABLE 1
Remediation Well Summary
 DFSP Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Remediation Area	Location	Well	Notes	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function	
Southern Area	Former Truck Fueling Area and Adjacent Water Tank Area	BSP-15	12	11/02/16	--	50.5	48 - 50	Biosparge	
		BSP-16	12	11/03/16	--	50.5	48 - 50	Biosparge	
		BSP-17	12	11/03/16	--	50.5	48 - 50	Biosparge	
		BSP-18	12	11/03/16	--	50.5	48 - 50	Biosparge	
		BSP-19	12	11/02/16	--	50.5	48 - 50	Biosparge	
		BSP-20	12	11/01/16	--	50.5	48 - 50	Biosparge	
		RW-19	13	06/30/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-20	13	06/29/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-21	13	06/30/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-22	13	06/28/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-23	13	06/30/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-24	13	06/28/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-25	13	06/28/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-26	13	07/03/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-27	13	06/28/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-28	13	07/03/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-29	13	06/29/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-30	13	06/27/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-31	13	07/03/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-32	13	07/03/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-33	13	06/29/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-34	13	07/03/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-39	10	11/15/17	--	33 / 47	13 - 33 / 44 - 46	SVE / Biosparge	
		RW-40	10	11/15/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-41	10	11/14/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-42	10	11/14/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-43	10	11/14/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-44	10	11/13/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-45	10	11/13/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-46	10	11/13/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		VEW-31		08/03/04		75.10	15	5 - 15	SVE
		VEW-38	12	11/02/16	--	30.5	20 - 30	SVE	
		VEW-39	12	11/03/16	--	30.5	20 - 30	SVE	
VEW-40	12	11/02/16	--	30.5	20 - 30	SVE			
VW-07	16	--		75.64	--	--	SVE		
VW-09	16	--		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
 BSP = Biosparge
 BS = Biosparge



TABLE 1
Remediation Well Summary
DFSP, Norwalk
15306 Norwalk Blvd., Norwalk, CA

Legend / Notes continued :

HW = Horizontal Well
GW/GWE = Groundwater extraction
RTF = Recovery Total Fluids
RW = Recovery Well
SP = Sparge
SVE = Soil vapor extraction
TF = Total fluid
TFE = Total fluid extraction
TFB = Total fluids biosparge
TFR = Total fluids recovery
VW/VEW = Vapor extraction well
-- = 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 July 11, 2018 *Well Installation Completion Report*.

11 = Abandoned on November 16, 2017.

12 = Recently installed per SGI's March 14, 2017 *Well Replacement Report and Work Plan*.

13 = Recently installed per SGI's June 30, 2017 *Remediation Well Installation Update Report*.

14 = Well installed by Government Technology Services in September 1992; exact date unknown.

15 = Well installed by Parsons in October 1999; exact date unknown.

16 = Well installation date unknown.

17 = Confirmed to be inoperable in October 2017 (well plugged)..

18 = Well abandoned in-place on 6/7/19 and 6/10/19 and replaced with new horizontal wells HW-8 and HW-9

19 = Total well length is 340-feet for horizontal well HW-8 and 500-feet for HW-9.

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

Date	Data Source	Notes	GW-14R Totalizer Reading (gallons)	GMW-31 Totalizer Reading (gallons)	GW-15 Totalizer Reading (gallons)	GW-16 Totalizer Reading (gallons)	Groundwater Extracted from North-East Area (gallons)	Groundwater Extracted from North-Central Area (gallons)	Discharge Totalizer Reading (gallons)	Groundwater Extracted and Treated Per Day (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed ^A (lb)
7/1/20	Off line		--	--	--	--	--	--	--	--	--	9,948
7/2/20	Off line		--	--	--	--	--	--	--	--	--	9,948
7/3/20	Off line		--	--	--	--	--	--	--	--	--	9,948
7/4/20	Off line		--	--	--	--	--	--	--	--	--	9,948
7/5/20	Off line		--	--	--	--	--	--	--	--	--	9,948
7/6/20	Off line		--	--	--	--	--	--	--	--	--	9,948
7/7/20	Off line		--	--	--	--	--	--	--	--	--	9,948
7/8/20	Off line		--	--	--	--	--	--	--	--	--	9,948
7/9/20	Technician		245,749	371,559	667,535	1,324,900	1,992,435	617,308	1,817,860	0	--	9,948
7/10/20	Off line		--	--	--	--	--	--	--	--	--	9,948
7/11/20	Off line		--	--	--	--	--	--	--	--	--	9,948
7/12/20	Off line		--	--	--	--	--	--	--	--	--	9,948
7/13/20	Off line		--	--	--	--	--	--	--	--	--	9,948
7/14/20	Off line		--	--	--	--	--	--	--	--	--	9,948
7/15/20	Off line		--	--	--	--	--	--	--	--	--	9,948
7/16/20	Technician		245,749	371,559	667,535	1,324,900	1,992,435	617,308	1,817,860	0	--	9,948
7/17/20	Off line		--	--	--	--	--	--	--	--	--	9,948
7/18/20	Off line		--	--	--	--	--	--	--	--	--	9,948
7/19/20	Off line		--	--	--	--	--	--	--	--	--	9,948
7/20/20	Off line		--	--	--	--	--	--	--	--	--	9,948
7/21/20	Off line		--	--	--	--	--	--	--	--	--	9,948
7/22/20	Off line		--	--	--	--	--	--	--	--	--	9,948
7/23/20	Off line		--	--	--	--	--	--	--	--	--	9,948
7/24/20	Technician	1	249,873	371,559	667,535	1,325,648	1,993,183	621,432	1,822,845	4,985	1,000	9,948
7/25/20	Off line		--	--	--	--	--	--	--	--	--	9,948
7/26/20	Off line		--	--	--	--	--	--	--	--	--	9,948
7/27/20	Off line		--	--	--	--	--	--	--	--	--	9,948
7/28/20	Off line		--	--	--	--	--	--	--	--	--	9,948
7/29/20	Off line		--	--	--	--	--	--	--	--	--	9,948
7/30/20	Off line		--	--	--	--	--	--	--	--	--	9,948

Cumulative Groundwater Discharged by the GWETS to Date (gallons)							
Period	July	Quarter 1, 2020	Quarter 2, 2020	Quarter 3, 2020	Quarter 4, 2020	2020 to Date	April 1996 to Date
Volume	4,985	234,047	273,235	5,026	--	512,309	80,235,593

Cumulative Mass DRO Removed by the GWETS ^A (lb)			
Period	July	Quarter 3 to Date	April 1996 to Date
Mass	0.04	0.04	9,947.7

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

Legend / Notes:

1 = Collected monthly influent, intermediate, and effluent water samples for laboratory analysis.

Groundwater extraction wells on line this month: GW-14R, GMW-31, GW-16.

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

GWETS = Groundwater extraction and treatment system

µg/L - Micrograms per liter

A = Hydrocarbon removal is calculated using analytical laboratory result for DRO (if not detected, half the detection limit used) from sample collected this month.

-- = Not applicable

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-14R Totalizer Reading (gallons)	GMW-31 Totalizer Reading (gallons)	GW-15 Totalizer Reading (gallons)	GW-16 Totalizer Reading (gallons)	Groundwater Extracted from North-East Area (gallons)	Groundwater Extracted from North-Central Area (gallons)	Discharge Totalizer Reading (gallons)	Groundwater Extracted and Treated Per Day (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed ^A (lb)
8/1/20	Off line		--	--	--	--	--	--	--	--	--	9,948
8/2/20	Off line		--	--	--	--	--	--	--	--	--	9,948
8/3/20	Off line		--	--	--	--	--	--	--	--	--	9,948
8/4/20	Off line		--	--	--	--	--	--	--	--	--	9,948
8/5/20	Off line		--	--	--	--	--	--	--	--	--	9,948
8/6/20	Off line		--	--	--	--	--	--	--	--	--	9,948
8/7/20	Off line		--	--	--	--	--	--	--	--	--	9,948
8/8/20	Off line		--	--	--	--	--	--	--	--	--	9,948
8/9/20	Off line		--	--	--	--	--	--	--	--	--	9,948
8/10/20	Off line		--	--	--	--	--	--	--	--	--	9,948
8/11/20	Off line		--	--	--	--	--	--	--	--	--	9,948
8/12/20	Off line		--	--	--	--	--	--	--	--	--	9,948
8/13/20	Off line		--	--	--	--	--	--	--	--	--	9,948
8/14/20	Off line		--	--	--	--	--	--	--	--	--	9,948
8/15/20	Off line		--	--	--	--	--	--	--	--	--	9,948
8/16/20	Off line		--	--	--	--	--	--	--	--	--	9,948
8/17/20	Off line		--	--	--	--	--	--	--	--	--	9,948
8/18/20	Off line		--	--	--	--	--	--	--	--	--	9,948
8/19/20	Off line		--	--	--	--	--	--	--	--	--	9,948
8/20/20	Off line		--	--	--	--	--	--	--	--	--	9,948
8/21/20	Off line		--	--	--	--	--	--	--	--	--	9,948
8/22/20	Off line		--	--	--	--	--	--	--	--	--	9,948
8/23/20	Off line		--	--	--	--	--	--	--	--	--	9,948
8/24/20	Off line		--	--	--	--	--	--	--	--	--	9,948
8/25/20	Off line		--	--	--	--	--	--	--	--	--	9,948
8/26/20	Off line		--	--	--	--	--	--	--	--	--	9,948
8/27/20	Off line		--	--	--	--	--	--	--	--	--	9,948
8/28/20	Off line		--	--	--	--	--	--	--	--	--	9,948
8/29/20	Off line		--	--	--	--	--	--	--	--	--	9,948
8/30/20	Off line		--	--	--	--	--	--	--	--	--	9,948
8/31/20	Off line		--	--	--	--	--	--	--	--	--	9,948

Cumulative Groundwater Discharged by the GWETS (gallons)							
Period	August	Quarter 1, 2020	Quarter 2, 2020	Quarter 3, 2020	Quarter 4, 2020	2020 to Date	April 1996 to Date
Volume	184	234,047	273,235	5,210	--	512,493	80,235,777

Cumulative Mass DRO Removed by the GWETS ^A (lb)			
Period	August	Quarter 3 to Date	April 1996 to Date
Mass	0.00	0.04	9,947.7

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

Legend / Notes:

Groundwater extraction wells on line this month: None.

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

GWETS = Groundwater extraction and treatment system

µg/L - Micrograms per liter

A = Hydrocarbon removal is calculated using analytical laboratory result for DRO (if not detected, half the detection limit used) from sample collected on January 30, 2020.

-- = Not applicable

lb = Pounds

DRO = Diesel range organics



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

Date	Data Source	Notes	GW-14R Totalizer Reading (gallons)	GMW-31 Totalizer Reading (gallons)	GW-15 Totalizer Reading (gallons)	GW-16 Totalizer Reading (gallons)	Groundwater Extracted from North-East Area (gallons)	Groundwater Extracted from North-Central Area (gallons)	Discharge Totalizer Reading (gallons)	Groundwater Extracted and Treated Per Day (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed ^A (lb)
9/1/20	Off line		--	--	--	--	--	--	--	--	--	9,948
9/2/20	Off line		--	--	--	--	--	--	--	--	--	9,948
9/3/20	Off line		--	--	--	--	--	--	--	--	--	9,948
9/4/20	Off line		--	--	--	--	--	--	--	--	--	9,948
9/5/20	Off line		--	--	--	--	--	--	--	--	--	9,948
9/6/20	Off line		--	--	--	--	--	--	--	--	--	9,948
9/7/20	Off line		--	--	--	--	--	--	--	--	--	9,948
9/8/20	Off line		--	--	--	--	--	--	--	--	--	9,948
9/9/20	Off line		--	--	--	--	--	--	--	--	--	9,948
9/10/20	Off line		--	--	--	--	--	--	--	--	--	9,948
9/11/20	Off line		--	--	--	--	--	--	--	--	--	9,948
9/12/20	Off line		--	--	--	--	--	--	--	--	--	9,948
9/13/20	Off line		--	--	--	--	--	--	--	--	--	9,948
9/14/20	Off line		--	--	--	--	--	--	--	--	--	9,948
9/15/20	Off line		--	--	--	--	--	--	--	--	--	9,948
9/16/20	Off line		--	--	--	--	--	--	--	--	--	9,948
9/17/20	Off line		--	--	--	--	--	--	--	--	--	9,948
9/18/20	Off line		--	--	--	--	--	--	--	--	--	9,948
9/19/20	Off line		--	--	--	--	--	--	--	--	--	9,948
9/20/20	Off line		--	--	--	--	--	--	--	--	--	9,948
9/21/20	Off line		--	--	--	--	--	--	--	--	--	9,948
9/22/20	Off line		--	--	--	--	--	--	--	--	--	9,948
9/23/20	Technician		250,026	371,634	--	1,325,729	1,325,729	621,659	1,823,208	363	--	9,948
9/24/20	Technician		250,051	372,065	--	1,325,970	1,325,970	622,116	1,825,254	2,046	--	9,948
9/25/20	Technician		252,964	372,737	--	1,327,032	1,327,032	625,701	1,827,300	2,046	--	9,948
9/26/20	Off line		--	--	--	--	--	--	--	--	--	9,948
9/27/20	Off line		--	--	--	--	--	--	--	--	--	9,948
9/28/20	Off line		--	--	--	--	--	--	--	--	--	9,948
9/29/20	Off line		--	--	--	--	--	--	--	--	--	9,948
9/30/20	Off line		--	--	--	--	--	--	--	--	--	9,948

Cumulative Groundwater Discharged by the GWETS (gallons)							
Period	September	Quarter 1, 2020	Quarter 2, 2020	Quarter 3, 2020	Quarter 4, 2020	2020 to Date	April 1996 to Date
Volume	4,437	234,047	273,235	9,647	--	516,930	80,240,214

Cumulative Mass DRO Removed by the GWETS ^A (lb)			
Period	September	Quarter 3 to Date	April 1996 to Date
Mass	0.04	0.08	9,947.7

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

Legend / Notes:

Groundwater extraction wells on line this month: GW-14R, GWM-31, GW-16.

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

GWETS = Groundwater extraction and treatment system

µg/L - Micrograms per liter

A = Hydrocarbon removal is calculated using analytical laboratory result for DRO (if not detected, half the detection limit used) from sample collected this month.

-- = Not applicable

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)
07/01/20	Technician		61,582	535	4.3	125.0	--	175.6	0.0	2,983,359
07/02/20	*		61,605	535	--	--	--	--	--	2,983,378
07/03/20	*		61,629	535	--	--	--	--	--	2,983,397
07/04/20	*		61,653	535	--	--	--	--	--	2,983,416
07/05/20	*		61,677	535	--	--	--	--	--	2,983,436
07/06/20	*		61,700	535	--	--	--	--	--	2,983,455
07/07/20	Technician	1	61,724	552	3.7	130.0	--	647.0	0.0	2,983,474
07/08/20	*		61,749	552	--	--	--	--	--	2,983,495
07/09/20	Technician		61,774	552	--	--	--	472.0	0.0	2,983,515
07/10/20	Technician		61,799	560	--	136.0	--	493.7	0.0	2,983,536
07/11/20	*		61,821	560	--	--	--	--	--	2,983,555
07/12/20	*		61,844	560	--	--	--	--	--	2,983,574
07/13/20	*		61,867	560	--	--	--	--	--	2,983,594
07/14/20	*		61,890	560	--	--	--	--	--	2,983,613
07/15/20	*		61,913	560	--	--	--	--	--	2,983,632
07/16/20	Technician	2	61,936	560	--	--	--	--	--	2,983,651
07/17/20	Technician		61,962	562	3.8	124.0	--	560.3	0.1	2,983,673
07/18/20	*		61,986	562	--	--	--	--	--	2,983,693
07/19/20	*		62,009	562	--	--	--	--	--	2,983,713
07/20/20	Technician	3	62,033	554	3.8	120.0	79	572.1	0.0	2,983,733
07/21/20	Technician		62,057	554	--	--	--	--	--	2,983,753
07/22/20	*		62,081	554	--	--	--	--	--	2,983,773
07/23/20	*		62,105	554	--	--	--	--	--	2,983,793
07/24/20	*		62,129	554	--	--	--	--	--	2,983,813
07/25/20	*		62,153	554	--	--	--	--	--	2,983,832
07/26/20	*		62,177	554	--	--	--	--	--	2,983,852
07/27/20	*		62,201	554	--	--	--	--	--	2,983,872
07/28/20	*		62,225	554	--	--	--	--	--	2,983,892
07/29/20	*		62,249	554	--	--	--	--	--	2,983,912
07/30/20	*		62,273	554	--	--	--	--	--	2,983,932
07/31/20	Technician		62,297	564	4.0	132.0	--	693.0	0.0	2,983,952

Cumulative Mass TPHg Removed by the VES ^D (lb)			
Period	July	Quarter 3 to Date	April 1996 to Date
Mass	612	612	2,983,952

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

Legend / Notes:

- 1 = SVE Trunklines 1 & 2 connected to the carbon VES.
- 2 = System shutdown for carbon changeout (one vessel only).
- 3 = Collected monthly Influent, after GAC-1, after GAC-2, and Effluent samples for laboratory analysis.

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

- 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).
- 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 ^{B,C} (ppmv)	Field Effluent Concentration ^{B,C} (ppmv)	Cumulative Vapor-Phase GRO Removed ^D (lb)
08/01/20	*		62,320	564	--	--	--	--	--	2,983,971
08/02/20	*		62,344	564	--	--	--	--	--	2,983,990
08/03/20	*		62,368	564	--	--	--	--	--	2,984,009
08/04/20	*		62,391	564	--	--	--	--	--	2,984,028
08/05/20	*		62,415	564	--	--	--	--	--	2,984,047
08/06/20	*		62,439	564	--	--	--	--	--	2,984,066
08/07/20	Technician		62,463	553	4.0	122.0	--	368.7	3.1	2,984,085
08/08/20	*		62,486	553	--	--	--	--	--	2,984,104
08/09/20	*		62,510	553	--	--	--	--	--	2,984,122
08/10/20	Technician		62,534	550	4.0	116.0	--	827.5	0.0	2,984,141
08/11/20	*		62,558	550	--	--	--	--	--	2,984,160
08/12/20	*		62,583	550	--	--	--	--	--	2,984,179
08/13/20	*		62,607	550	--	--	--	--	--	2,984,198
08/14/20	*		62,631	550	--	--	--	--	--	2,984,217
08/15/20	*		62,656	550	--	--	--	--	--	2,984,236
08/16/20	*		62,680	550	--	--	--	--	--	2,984,255
08/17/20	Technician		62,705	563	3.9	130.0	--	531.4	0.3	2,984,275
08/18/20	*		62,728	563	--	--	--	--	--	2,984,294
08/19/20	*		62,751	563	--	--	--	--	--	2,984,312
08/20/20	*		62,774	563	--	--	--	--	--	2,984,331
08/21/20	Technician	1	62,797	563	--	--	--	--	--	2,984,349
08/22/20	*		62,819	563	--	--	--	--	--	2,984,367
08/23/20	*		62,840	563	--	--	--	--	--	2,984,384
08/24/20	Technician	2, 3, 4	62,862	546	4.0	112.0	69	797.4	0.1	2,984,401
08/25/20	*		62,889	546	--	--	--	--	--	2,984,422
08/26/20	Technician	5	62,916	568	3.7	130.0	--	420.4	0.0	2,984,444
08/27/20	*		62,940	568	--	--	--	--	--	2,984,463
08/28/20	*		62,964	568	--	--	--	--	--	2,984,482
08/29/20	*		62,988	568	--	--	--	--	--	2,984,502
08/30/20	*		63,012	568	--	--	--	--	--	2,984,521
08/31/20	Technician		63,035	555	3.8	120.0	--	426.8	0.3	2,984,540

Cumulative Mass TPHg Removed by the VES ^A (lb)			
Period	August	Quarter 3 to Date	April 1996 to Date
Mass	587	1,200	2,984,540

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

Legend / Notes:

- 1 = System shutdown for carbon changeout (one vessel only).
- 2 = Collected monthly Influent, after GAC-1, after GAC-2, and Effluent samples for laboratory analysis.
- 3 = Collected individual well vapor samples for laboratory analysis from HW-1, HW-5, HW-7, HW-8, and HW-9.
- 4 = Collected vapor samples for laboratory analysis from Trunklines 1 and 2.
- 5 = SVE Trunkline 1 disconnected from the carbon VES.

-- = Not applicable or not measured

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

- VES = Soil vapor extraction system
- in. Hg = Inches of mercury
- scfm = Standard cubic feet per minute
- °F = Degrees Fahrenheit
- 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).
- 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)
09/01/20	*		63,059	568	--	--	--	--	--	2,984,549
09/02/20	*		63,084	568	--	--	--	--	--	2,984,558
09/03/20	*		63,108	568	--	--	--	--	--	2,984,567
09/04/20	*		63,132	568	--	--	--	--	--	2,984,576
09/05/20	*		63,156	568	--	--	--	--	--	2,984,586
09/06/20	*		63,180	568	--	--	--	--	--	2,984,595
09/07/20	*		63,204	568	--	--	--	--	--	2,984,604
09/08/20	*		63,228	568	--	--	--	--	--	2,984,613
09/09/20	*		63,252	568	--	--	--	--	--	2,984,623
09/10/20	*		63,276	568	--	--	--	--	--	2,984,632
09/11/20	Technician		63,300	558	3.8	128.0	--	409.3	0.0	2,984,641
09/12/20	*		63,322	558	--	--	--	--	--	2,984,649
09/13/20	*		63,344	558	--	--	--	--	--	2,984,657
09/14/20	Technician	1	63,366	540	4.0	108.0	33	397.1	0.0	2,984,665
09/15/20	*		63,390	540	--	--	--	--	--	2,984,674
09/16/20	*		63,414	540	--	--	--	--	--	2,984,683
09/17/20	*		63,438	540	--	--	--	--	--	2,984,692
09/18/20	*		63,462	540	--	--	--	--	--	2,984,700
09/19/20	*		63,486	540	--	--	--	--	--	2,984,709
09/20/20	*		63,510	540	--	--	--	--	--	2,984,718
09/21/20	*		63,534	540	--	--	--	--	--	2,984,727
09/22/20	*		63,558	540	--	--	--	--	--	2,984,735
09/23/20	*		63,582	540	--	--	--	--	--	2,984,744
09/24/20	Technician	2	63,606	540	--	--	--	387.0	0.0	2,984,753
09/25/20	*		63,630	540	--	--	--	--	--	2,984,762
09/26/20	*		63,655	540	--	--	--	--	--	2,984,770
09/27/20	*		63,679	540	--	--	--	--	--	2,984,779
09/28/20	Technician		63,703	561	4.0	130.0	--	423.3	0.0	2,984,789
09/29/20	*		63,727	561	--	--	--	--	--	2,984,798
09/30/20	*		63,751	561	--	--	--	--	--	2,984,807

Cumulative Mass TPHg Removed by the VES ^A (lb)			
Period	September	Quarter 3 to Date	April 1996 to Date
Mass	267	1,467	2,984,807

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

Legend / Notes:

1 = Collected monthly Influent, after GAC-1, after GAC-2, and Effluent samples for laboratory analysis.
 2 = System shutdown for carbon changeout (one vessel only).

-- = Not applicable or not measured

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

VES = Soil vapor extraction system in. Hg = Inches of mercury ppmv = Parts per million by volume
 scfm = Standard cubic feet per minute °F = Degrees Fahrenheit lb = Pounds
 A = Reading from chart recorder.
 B = Concentrations obtained with a calibrated organic vapor analyzer.
 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)



TABLE 4
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)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
04/29/11		--	TO-3 & 8260B	--	--	--	17	60	0.021	0.067	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
05/27/11		--	TO-3 & 8260B	--	--	--	13	46	0.021	0.067	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
06/30/11		--	TO-3 & 8260B	--	--	--	11	39	0.018	0.057	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
07/27/11		--	TO-3 & 8260B	--	--	--	8.6	31	0.013	0.042	<0.0050	<0.019	0.012	0.052	--	--	--	--	0.013	0.056	<0.010	<0.036
08/26/11		--	TO-3 & 8260B	--	--	--	7.8	28	0.012	0.038	<0.0050	<0.019	0.020	0.087	--	--	--	--	0.0264	0.115	<0.010	<0.036
09/30/11		--	TO-3 & 8260B	--	--	--	6.9	25	0.012	0.038	<0.0050	<0.019	0.011	0.048	--	--	--	--	0.011	0.048	<0.010	<0.036
10/28/11		--	TO-3 & 8260B	--	--	--	5.4	19	0.011	0.035	<0.0050	<0.019	0.015	0.065	--	--	--	--	0.028	0.12	<0.010	<0.036
11/30/11		--	TO-3 & 8260B	--	--	--	8.5	30	0.012	0.038	<0.0050	<0.019	0.0067	0.029	--	--	--	--	0.010	0.043	<0.010	<0.036
12/28/11		--	TO-3 & 8260B	--	--	--	8.6	31	0.024	0.077	0.0075	0.028	0.0096	0.042	--	--	--	--	0.022	0.095	<0.010	<0.036
01/26/12		--	TO-3 & 8260B	--	--	--	3.7	13	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
02/24/12		--	TO-3 & 8260B	--	--	--	4.6	16	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
03/28/12		--	TO-3 & 8260B	--	--	--	4.1	15	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
04/27/12		--	TO-3 & 8260B	--	--	--	3.6	13	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
05/31/12		--	TO-3 & 8260B	--	--	--	6.5	23	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
06/28/12		--	TO-3 & 8260B	--	--	--	5.3	19	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
07/26/12		--	TO-3 & 8260B	4.1	--	--	4.1	15	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
08/31/12		--	TO-3 & 8260B	1.5	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
09/27/12		--	TO-3 & 8260B	1.5	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
10/30/12		--	TO-3 & 8260B	1.5	--	--	6.1	22	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
11/26/12		--	TO-3 & 8260B	4.2	--	--	4.2	15	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
12/19/12		--	TO-3 & 8260B	3.2	--	--	3.2	11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
01/31/13		--	TO-3 & 8260B	4.6	--	--	4.6	16	--	--	--	--	--	--	--	--	--	--	--	--	--	--
02/27/13		--	TO-3 & 8260B	4.5	--	--	4.5	16	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
03/28/13		--	TO-3 & 8260B	6.7	--	--	6.7	24	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
04/22/13		--	TO-3 & 8260B	5.4	--	--	5.4	19	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
07/29/13		--	TO-3 & 8260B	1.5	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
08/12/13		--	TO-3 & 8260B	--	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
10/30/13		--	TO-3 & 8260B	3.0	--	--	3.0	11	0.014	0.045	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
11/27/13		--	TO-3 & 8260B	1.5	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	0.015	0.065	<0.010	<0.036
12/19/13		--	TO-3 & 8260B	1.5	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036

TABLE 4
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)	(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)
03/21/14		--	TO-3 & 8260B	1.5	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	<0.0050	<0.022	<0.010	<0.043	<0.015	<0.065	<0.010	<0.036
04/23/14		VEW-32, VEW-33, VEW-34, VEW-35, VEW-36 VEW-37, HW-1, HW-3, HW-5, HW-7	TO-3 & 8260B	1.9	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	<0.0050	<0.022	<0.010	<0.043	<0.015	<0.065	<0.010	<0.036
05/16/14	1	VEW-32, VEW-33, VEW-34, VEW-35, VEW-36 VEW-37, HW-1, HW-3, HW-5, HW-7	TO-3 & 8260B	1.1	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	<0.0050	<0.022	<0.010	<0.043	<0.015	<0.065	<0.010	<0.036
07/09/14	2	VEW-32, VEW-33, VEW-34, VEW-35, VEW-36 VEW-37, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	24	6.1	25	7.0	25	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
08/13/14		VEW-32, VEW-33, VEW-34, VEW-35, VEW-36 VEW-37, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	27	7.3	30	8.4	30	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
09/17/14	3	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	5.6	<4.9	<20	<5.6	<20	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
10/23/14	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	1.2	<4.9	<20	<5.6	<20	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
11/17/14	5	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	1.3	<4.9	<20	<5.6	<20	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
12/17/14		VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	0.5	<4.9	<20	<5.6	<20	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
01/14/15		VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	1.5	<4.9	<20	<5.6	<20	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
02/20/15		VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	1.5	<4.9	<20	<5.6	<20	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
03/27/15		VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	3.4	<4.9	<20	<5.6	<20	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
04/27/15	6	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	132	140	580	160	580	0.63	2.0	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	0.23	1.0	0.23	1.0	<0.6	<2.0
05/29/15	6,7	--	8015M & 8260M	103	83	340	97	340	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
06/03/15	6,8	VEW-32, VEW-33, VEW-34	8015M & 8260M	47	32	130	37	130	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
07/09/15	6	VEW-32, VEW-33, VEW-34	8015M & 8260M	162	150	600	170	600	<0.16	<0.50	0.15	0.58	<0.12	<0.50	0.67	2.9	0.71	3.1	1.38	6.0	<0.55	<2.0
07/15/15	6,9	VEW-32, VEW-33, VEW-34	8015M & 8260M	147	170	700	200	700	<0.16	<0.50	0.53	2.0	0.18	0.78	0.99	4.3	1.5	6.3	2.49	10.6	<0.55	<2.0
07/21/15	6,9	VEW-32, VEW-33, VEW-34	8015M & 8260M	259	160	640	180	640	<0.16	<0.50	0.25	0.94	<0.12	<0.50	0.71	3.1	0.62	2.7	1.33	5.8	<0.55	<2.0
07/29/15	6,9	VEW-32, VEW-33, VEW-34	8015M & 8260M	129	170	710	200	710	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	0.32	1.4	0.25	1.1	0.57	2.5	<0.55	<2.0
08/17/15	6,10	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5	8015M & 8260M	135	130	550	160	550	0.75	2.4	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	0.28	1.2	0.28	1.2	<0.55	<2.0
09/09/15	6,11	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	202	190	760	220	760	0.30	0.95	0.74	2.8	0.76	3.3	0.69	3.0	2.5	11	3.19	14	<0.55	<2.0
09/22/15	6,9	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	225	150	600	170	600	0.27	0.85	0.37	1.4	<0.12	<0.50	0.71	3.1	0.58	2.5	1.29	5.6	<0.55	<2.0
09/25/15	6,9	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	258	220	890	250	890	0.41	1.3	0.64	2.4	0.17	0.75	0.74	3.2	0.85	3.7	1.59	6.9	<0.55	<2.0
10/07/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	256	230	940	270	940	0.69	2.2	0.82	3.1	0.22	0.97	0.41	1.8	1.1	4.6	1.51	6.4	<0.55	<2.0
11/04/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	380	290	1,200	340	1,200	0.88	2.8	1.6	5.9	0.25	1.1	1.4	6.2	2.1	9.0	3.5	15	<0.55	<2.0
12/07/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	346	320	1,300	370	1,300	0.69	2.2	1.9	7.0	0.15	0.64	0.76	3.3	0.94	4.1	1.7	7.4	<0.55	<2.0
01/13/16	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	141	110	470	130	470	0.16	0.52	0.29	1.1	<0.12	<0.50	0.22	0.95	0.30	1.3	0.52	2.3	<0.55	<2.0
02/10/16	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	124	98	400	110	400	0.59	1.9	0.66	2.5	0.23	1.0	0.39	1.7	0.6	2.6	0.99	4.3	<0.55	<2.0
03/02/16	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	92	54	220	63	220	<0.16	<0.50	0.25	0.93	<0.12	<0.50	0.14	0.62	<0.23	<1.0	0.14	0.62	<0.55	<2.0
04/06/16	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	124	120	490	140	490	0.38	1.2	0.29	1.1	<0.12	<0.50	0.17	0.72	<0.23	<1.0	0.17	0.72	<0.55	<2.0



TABLE 4
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)	(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)
05/04/16	6,7	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	107	100	410	120	410	0.31	1.0	0.20	0.77	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
06/06/16	6,12	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	73	59	240	68	240	0.59	1.9	0.50	1.9	<0.12	<0.50	0.41	1.8	0.51	2.2	0.92	4.0	<0.55	<2.0
07/06/16	6,13	HW-1, HW-3, HW-5	8015M & 8260M	49	37	150	43	150	0.41	1.3	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
09/01/16	6,13	HW-1, HW-3, HW-5	8015M & 8260M	46	18	75	21	75	0.41	1.3	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
10/12/16	6,13,14	HW-1, HW-3, HW-5	8015M & 8260M	43	19	79	22	79	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
11/01/16	6,13	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	114	81	330	94	330	0.53	1.7	0.23	0.86	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
12/05/16	6,13	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	96	86	350	100	350	0.31	1.0	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
01/09/17	6,13	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	86	68	280	80	280	0.63	2.0	0.24	0.89	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
02/06/17	6,13	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	93	66	270	77	270	0.44	1.4	0.19	0.72	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
03/15/17	6,13	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	96	76	310	88	310	0.53	1.7	0.24	0.9	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
03/27/17	15,16	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	193	150	600	170	600	0.91	2.9	0.42	1.6	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
04/17/17	15	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	138	150	610	170	610	1.1	3.5	0.53	2.0	<0.12	<0.50	<0.12	<0.50	0.23	1.0	0.23	1.0	<0.55	<2.0
05/03/17	15	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	141	120	510	140	510	0.69	2.2	0.58	2.2	0.12	0.51	<0.12	<0.50	0.35	1.5	0.35	1.5	<0.55	<2.0
06/05/17	15	HW-1, HW-3, HW-5	8015M & 8260M	136	110	430	120	430	0.81	2.6	0.40	1.5	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
06/27/17	15,17	HW-1, HW-3, HW-5, VEW-38, VEW-39, VEW-40	8015M & 8260M	--	140	560	160	560	0.38	1.2	0.20	0.75	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
07/19/17		HW-5, HW-7 and VEW-39	8015M & 8260M	199	120	500	140	500	0.75	2.4	0.45	1.7	<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	560	2,300	650	2,300	0.69	2.2	0.29	1.1	0.53	2.3	<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	610	2,500	710	2,500	1.2	3.9	0.48	1.8	0.46	2.0	<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	370	1,500	430	1,500	1.0	3.2	0.32	1.2	0.41	1.8	0.20	0.88	0.83	3.6	1.0	4.5	<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	240	970	270	970	0.78	2.5	0.24	0.89	0.28	1.2	<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	270	1,100	300	1,100	0.85	2.7	0.27	1.0	0.21	0.9	<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	240	970	270	970	1.1	3.4	<0.13	<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	21	HW-1, HW-5, HW-7	8015M & 8260M	148	86	350	88	350	<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
03/28/18	21	HW-1, HW-5, HW-7	8015M & 8260M	201	160	670	170	670	0.59	1.9	<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	21	HW-1, HW-5, HW-7	8015M & 8260M	191	150	620	160	620	0.25	0.79	<0.13	<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	21	HW-1, HW-5, HW-7	8015M & 8260M	149	110	470	150	470	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
06/06/18	21	HW-1, HW-5, HW-7	8015M & 8260M	95	49	200	50	200	<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
07/02/18	21	HW-1, HW-5, HW-7	8015M & 8260M	135	120	490	120	490	<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
08/06/18	21	HW-1, HW-5, HW-7	8015M & 8260M	134	49	200	48	200	0.3	0.95	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
09/13/18	21	HW-1, HW-5, HW-7	8015M & 8260M	109	49	200	50	200	<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



TABLE 4
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)	(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)
10/29/18	21	HW-1, HW-5, HW-7	8015M & 8260M	118	66	270	59	270	0.44	1.4	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
11/14/18	21	HW-1, HW-5, HW-7	8015M & 8260M	202	200	800	170	800	1.3	4.2	0.69	2.6	<0.12	<0.5	<0.12	<0.5	0.35	1.5	<0.35	<1.5	<0.55	<2.0
12/12/18	21	HW-1, HW-5, HW-7	8015M & 8260M	130	98	400	87	400	0.59	1.9	0.21	0.79	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
01/28/19	21	HW-1, HW-5, HW-7	8015M & 8260M	228	220	880	190	880	1.3	4.0	0.27	1.0	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
02/12/19	21, 22	HW-1, HW-5, HW-7	8015M & 8260M	258	240	1,000	220	1,000	1.0	3.3	0.23	0.88	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
04/03/19	21, 22	HW-1, HW-5, HW-7	8015M & 8260M	394	73	300	65	300	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
11/25/19	23	HW-1, HW-5, HW-7, HW-8, HW-9	8015M & 8260M	164	42	170	38	170	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.1	<0.35	<1.6	<0.55	<2.0
12/30/19		HW-1, HW-5, HW-7, HW-8, HW-9	8015M & 8260M	39	7.1	29	6.3	29	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
01/15/20		HW-1, HW-5, HW-7, HW-8, HW-9	8015M & 8260M	15	5.4	22	<5.7	22	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
02/18/20		HW-1, HW-5, HW-7, HW-8, HW-9	8015M & 8260M	12	<4.9	<20	<5.7	<20	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
02/27/20		HW-1, HW-5, HW-7, HW-8, HW-9	8015 & 8260B	16	<4.9	<20	<5.7	<20	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
03/16/20	24	HW-1, HW-5, HW-7	8015 & 8260B	105	18.09	74	16	74	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
04/01/20	25	HW-1, HW-5, HW-7, HW-8, HW-9	8015 & 8260B	47	8.31	34	7.5	34	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
04/15/20		HW-1, HW-5, HW-7, HW-8, HW-9	8015 & 8260B	87	9.5	39	8.6	39	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
05/15/20		HW-1, HW-5, HW-7, HW-8, HW-9	8015 & 8260B	119	17	68	15	68	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
06/22/20		HW-1, HW-5, HW-7, HW-8, HW-9	8015 & 8260B	151	24	98	21	98	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
07/20/20		HW-1, HW-9, HW-7, Trunkline #1, Trunkline #2	8016 & 8260B	572	98	400	79	400	0.19	0.6	0.16	0.59	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
08/24/20		HW-1, HW-9, HW-7, Trunkline #1, Trunkline #2	8017 & 8260B	797	93	380	69	380	0.17	0.53	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
09/14/20		HW-1, HW-9, HW-7, Trunkline #2	8018 & 8260B	397	44	180	33	180	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<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

GRO = Gasoline range organics

µg/L = Micrograms per liter

- Reported concentrations are shown in bold.

MTBE = Methyl tertiary-butyl ether

-- = Not available or not analyzed

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

<0.1 = Not detected at or above the Method Reporting Limit (MRL) shown

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.

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

Legend / Notes continued:

- 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 thermal oxidizer (see Table 8 for details).
- 22 = No sample collected for analysis during March 2019 due to site condition and system operation status.
- 23 = System restart on 10/30/19 after installation of new blower.
- 24 = System shut down 3/31/20 due to high effluent value permit exceedence on 3/16/20.
- 25 = Resampled and restarted system on 4/3/20 upon return to permit compliance.

TABLE 5A
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. WC)	Oxidizer Inlet Temperature TE1 Excess Controller (°F)	Laboratory Process GRO as Hexane Concentration (ppmv)	Field Inlet Process Oxidizer Concentration ^{B,C} (ppmv)	Field Effluent Concentration ^{B,C} (ppmv)	Cumulative Vapor-Phase GRO Removed ^D (lb)
07/01/20	Technician		7,767	868	56	1,451	--	504	28	223,175
07/02/20	*		7,792	868	--	--	--	--	--	223,487
07/03/20	*		7,816	868	--	--	--	--	--	223,799
07/04/20	*		7,841	868	--	--	--	--	--	224,111
07/05/20	*		7,865	868	--	--	--	--	--	224,423
07/06/20	Technician	1	7,890	754	68	1,464	--	--	--	224,694
07/07/20	Technician		7,912	727	68	1,455	--	710	18	224,928
07/08/20	*		7,937	727	--	--	--	--	--	225,193
07/09/20	Technician		7,962	747	--	--	--	700	30	225,466
07/10/20	Technician	2	7,987	775	66	1,454	--	210	25	225,749
07/11/20	Offline		7987	--	--	--	--	--	--	225,749
07/12/20	Offline		7987	--	--	--	--	--	--	225,749
07/13/20	Technician	3	8,004	775	--	--	--	--	--	225,936
07/14/20	Technician		8,009	732	68	1,455	--	425	30	225,995
07/15/20	*		8,033	732	--	--	--	--	--	226,252
07/16/20	Technician		8,057	702	--	--	--	--	--	226,498
07/17/20	Technician	4	8,079	713	68	1,455	--	613	27	226,727
07/18/20	Offline		8079	--	--	--	--	--	--	226,727
07/19/20	Offline		8079	--	--	--	--	--	--	226,727
07/20/20	Technician	5	8,088	687	68	1,455	750	630	22	226,817
07/21/20	Offline		8088	--	--	--	--	--	--	226,817
07/22/20	Offline		8088	--	--	--	--	--	--	226,817
07/23/20	Technician	3	8,094	687	--	--	--	--	--	226,877
07/24/20	*		8,115	687	--	--	--	--	--	227,083
07/25/20	*		8,135	687	--	--	--	--	--	227,289
07/26/20	*		8,156	687	--	--	--	--	--	227,495
07/27/20	*		8,176	687	--	--	--	--	--	227,701
07/28/20	*		8,197	687	--	--	--	--	--	227,906
07/29/20	*		8,217	687	--	--	--	--	--	228,112
07/30/20	*	4	8,238	687	--	--	--	--	--	228,318
07/31/20	Technician	3	8,258	709	58	1,454	--	705	18	228,530

Cumulative Mass TPHg Removed by the VES ^D (lb)			
Period	July	Quarter 3 to Date	January 2018 to Date
Mass	5,659.1	5,659.1	236,371.1

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

Legend / Notes:

- 1 = SVE Trunklines 1 & 2 disconnected from the thermal oxidizer VES.
- 2 = VES manually shut down for maintenance.
- 3 = VES restarted.
- 4 = VES manually shut down due blower oil leak.
- 5 = Collected monthly influent and effluent samples for laboratory analysis.

System operating under SCAQMD Permit #G52288

Vapor extraction wells on line this month (grouped by location):

Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-17, TFR-18, TFR-19), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-33), (RW-22, RW-29), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).

- VES = Soil vapor extraction system
- scfm = Standard cubic feet per minute
- ppmv = Parts per million by volume
- in. Hg = Inches of mercury
- °F = Degrees Fahrenheit
- 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 result for GRO (if not detected, half the detection limit is used) from samples collected this month (laboratory report attached).

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



TABLE 5B
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 Flow ^A (scfm)	VES Manifold Vacuum (in. WC)	Oxidizer Inlet Temperature TE1 Excess Controller (°F)	Laboratory Process GRO as Hexane Concentration (ppmv)	Field Inlet Process Oxidizer Concentration ^{B,C} (ppmv)	Field Effluent Concentration ^{B,C} (ppmv)	Cumulative Vapor-Phase GRO Removed ^D (lb)
08/01/20	*		8,282	709	--	--	--	--	--	228,777
08/02/20	*		8,306	709	--	--	--	--	--	229,024
08/03/20	*		8,330	709	--	--	--	--	--	229,271
08/04/20	*		8,353	709	--	--	--	--	--	229,519
08/05/20	*		8,377	709	--	--	--	--	--	229,766
08/06/20	*		8,401	709	--	--	--	--	--	230,013
08/07/20	Technician	1	8,425	697	70	1,454	--	273	16	230,256
08/08/20	Offline		8,425	--	--	--	--	--	--	230,256
08/09/20	Offline		8,425	--	--	--	--	--	--	230,256
08/10/20	Offline		8,425	--	--	--	--	--	--	230,256
08/11/20	Offline		8,425	--	--	--	--	--	--	230,256
08/12/20	Offline		8,425	--	--	--	--	--	--	230,256
08/13/20	Offline		8,425	--	--	--	--	--	--	230,256
08/14/20	Offline		8,425	--	--	--	--	--	--	230,256
08/15/20	Offline		8,425	--	--	--	--	--	--	230,256
08/16/20	Offline		8,425	--	--	--	--	--	--	230,256
08/17/20	Offline		8,425	--	--	--	--	--	--	230,256
08/18/20	Offline		8,425	--	--	--	--	--	--	230,256
08/19/20	Offline		8,425	--	--	--	--	--	--	230,256
08/20/20	Offline		8,425	--	--	--	--	--	--	230,256
08/21/20	Offline		8,425	--	--	--	--	--	--	230,256
08/22/20	Offline		8,425	--	--	--	--	--	--	230,256
08/23/20	Offline		8,425	--	--	--	--	--	--	230,256
08/24/20	Offline		8,425	--	--	--	--	--	--	230,256
08/25/20	Offline		8,425	--	--	--	--	--	--	230,256
08/26/20	Offline	2	8,425	--	--	--	--	--	--	230,256
08/27/20	Offline		8,425	--	--	--	--	--	--	230,256
08/28/20	Offline		8,425	--	--	--	--	--	--	230,256
08/29/20	Offline		8,425	--	--	--	--	--	--	230,256
08/30/20	Offline		8,425	--	--	--	--	--	--	230,256
08/31/20	Offline		8,425	--	--	--	--	--	--	230,256

Cumulative Mass TPHg Removed by the VES ^D (lb)			
Period	August	Quarter 3 to Date	January 2018 to Date
Mass	1,725.7	7,384.8	238,096.8

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

Legend / Notes:

1 = VES manually shut down due blower oil leak. Blower removed for service repairs.
 2 = SVE Trunkline 1 connected to the thermal oxidizer VES.

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

System operating under SCAQMD Permit #G52288

Vapor extraction wells on line this month (grouped by location):

Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-17, TFR-18, TFR-19), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-33), (RW-22, RW-29), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).

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 samples collected this month (laboratory report attached).

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



TABLE 5C
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. WC)	Oxidizer Inlet Temperature TE1 Excess Controller (°F)	Laboratory Process GRO as Hexane Concentration (ppmv)	Field Inlet Process Oxidizer Concentration ^{B,C} (ppmv)	Field Effluent Concentration ^{B,C} (ppmv)	Cumulative Vapor-Phase GRO Removed ^D (lb)
09/01/20	Offline		8,425	--	--	--	--	--	--	230,256
09/02/20	Offline		8,425	--	--	--	--	--	--	230,256
09/03/20	Offline		8,425	--	--	--	--	--	--	230,256
09/04/20	Offline		8,425	--	--	--	--	--	--	230,256
09/05/20	Offline		8,425	--	--	--	--	--	--	230,256
09/06/20	Offline		8,425	--	--	--	--	--	--	230,256
09/07/20	Offline		8,425	--	--	--	--	--	--	230,256
09/08/20	Technician	1	8,429	--	--	--	--	--	--	230,256
09/09/20	Technician	2	8,452	--	--	--	--	--	--	230,718
09/10/20	Offline		8,452	--	--	--	--	--	--	230,718
09/11/20	Technician	1	8,457	783	64	1,467	--	992	15	230,831
09/12/20	*		8,479	783	--	--	--	--	--	231,336
09/13/20	*		8,502	783	--	--	--	--	--	231,840
09/14/20	Technician	3, 4	8,524	769	62	1,447	1400	748	22	232,335
09/15/20	*		8,548	769	--	--	--	--	--	232,877
09/16/20	*		8,573	769	--	--	--	--	--	233,419
09/17/20	*		8,597	769	--	--	--	--	--	233,961
09/18/20	*		8,622	769	--	--	--	--	--	234,503
09/19/20	*		8,646	769	--	--	--	--	--	235,045
09/20/20	*		8,671	769	--	--	--	--	--	235,587
09/21/20	*		8,695	769	--	--	--	--	--	236,128
09/22/20	*		8,719	769	--	--	--	--	--	236,670
09/23/20	*		8,744	769	--	--	--	--	--	237,212
09/24/20	*		8,768	769	--	--	--	--	--	237,754
09/25/20	*		8,793	769	--	--	--	--	--	238,296
09/26/20	*		8,817	769	--	--	--	--	--	238,838
09/27/20	*		8,842	769	--	--	--	--	--	239,380
09/28/20	Technician		8,866	828	66	1,453	--	624	26	239,963
09/29/20	*		8,889	828	--	--	--	--	--	240,516
09/30/20	*		8,912	828	--	--	--	--	--	241,069

Cumulative Mass TPHg Removed by the VES ^A (lb)			
Period	September	Quarter 3 to Date	January 2018 to Date
Mass	10,812.8	18,197.6	248,909.6

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

Legend / Notes:

- 1 = System restart.
- 2 = VES manually shut down due to temperature issues.
- 3 = Collected monthly influent and effluent samples for laboratory analysis.
- 4 = Collected vapor samples from Trunklines 3, 4 and 5 for laboratory analysis.

System operating under SCAQMD Permit #G52288

Vapor extraction wells on line this month (grouped by location):

Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-33), (RW-22, RW-29), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).

- VES = Soil vapor extraction system
- scfm = Standard cubic feet per minute
- ppmv = Parts per million by volume
- in. Hg = Inches of mercury
- °F = Degrees Fahrenheit
- 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 result for GRO (if not detected, half the detection limit is used) from samples collected this month (laboratory report attached).

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



TABLE 6
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	GRO		GRO as Hexane		Benzene		Ethylbenzene		MTBE		Toluene		o-Xylene		m,p-Xylenes		Total Xylenes	
				(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)
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	<0.12	<0.50	<0.55	<2.0	<0.13	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5
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	<0.12	<0.50	<0.55	<2.0	<0.13	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5
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	0.28	1.2	<0.55	<2.0	<0.13	<0.50	<0.12	<0.50	0.76	3.3	<0.35	<1.5
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	<0.12	<0.50	<0.55	<2.0	<0.13	<0.50	<0.12	<0.50	0.28	1.2	<0.35	<1.5
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	0.17	0.72	<0.55	<2.0	<0.13	<0.50	<0.12	<0.50	0.53	2.3	<0.35	<1.5
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	<0.23	<1.0	<1.1	<4.0	<0.27	<1.0	<0.23	<1.0	0.55	2.4	<0.35	<1.5
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	0.23	1.0	<0.55	<2.0	0.58	2.2	0.25	1.1	0.92	4.0	<0.35	<1.5
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	0.41	1.8	<0.28	<1.0	0.34	1.3	0.18	0.77	0.94	4.1	<0.35	<1.5
10/29/18	2,6	RW-1, -4, -5, -9, -10, -11, -14, -18, -22, -23, -24, -26, -27, -28, -29, -30, -31, -32, -33, -35, -36, -37, -38, -40, -41, -42, -44, -45, -47, -48, -49, -50, VEW-40	8015M & 8260M	791	440	1,800	390	1,800	0.97	3.1	<0.12	<0.5	<0.55	<2.0	<0.13	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5
11/14/18	2,6	RW-1, -4, -5, -9, -10, -11, -14, -18, -22, -23, -24, -26, -27, -28, -29, -30, -31, -32, -33, -35, -36, -37, -38, -40, -41, -42, -44, -45, -47, -48, -49, -50, VEW-40	8015M & 8260M	794	640	2,600	560	2,600	1.6	5.1	0.18	0.77	<0.55	<2.0	<0.13	<0.5	<0.12	<0.5	0.41	1.8	<0.35	<1.5
12/17/18	2,6,8	RW-1, -4, -5, -9, -10, -11, -14, -18, -22, -23, -24, -26, -27, -28, -29, -30, -31, -32, -33, -35, -36, -37, -38, -40, -41, -42, -44, -45, -47, -48, -49, -50, VEW-40	8015M & 8260M	968	220	900	200	900	0.47	1.5	<0.12	<0.5	<0.55	<2.0	<0.13	<0.5	<0.12	<0.5	<0.23	<1.0	<0.38	<1.8
03/19/19	2,6,9	RW-1, -4, -5, -9, -10, -11, -18, -22, -23, -24, -26, -27, -28, -29, -30, -31, -32, -33, -35, -37, -40, -41, -42, -43, -44, -45, -47, -48, -49, and -50; VEW-40; TFR-5, -7, -9, -10, -11, -13, -16, -19, -21, -24, -26, -28, -30, -35, -36, and -37	8015M & 8260M	766	270	1,100	240	1,100	0.72	2.3	<0.12	<0.50	<0.55	<2.0	<0.13	<0.50	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5
04/03/19	2,6,9	RW-1, -4, -5, -9, -10, -11, -18, -22, -23, -24, -26, -27, -28, -29, -30, -31, -32, -33, -35, -37, -40, -41, -42, -43, -44, -45, -47, -48, -49, and -50; VEW-40; TFR-5, -7, -9, -10, -11, -13, -16, -19, -21, -24, -26, -28, -30, -35, -36, and -37	8015M & 8260M	1,984	210	860	190	860	0.28	0.91	<0.12	<0.50	<0.55	<2.0	<0.13	<0.50	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5
04/22/19	2,6,9	RW-1, -4, -5, -9, -10, -11, -18, -22, -23, -24, -26, -27, -28, -29, -30, -31, -32, -33, -35, -37, -40, -41, -42, -43, -44, -45, -47, -48, -49, and -50; VEW-40; TFR-5, -7, -9, -10, -11, -13, -16, -19, -21, -24, -26, -28, -30, -35, -36, and -37	8015M & 8260M	2,410	660	2,700	600	2,700	2.9	9.2	0.28	1.2	<0.55	<2.0	<0.13	<0.50	0.13	0.58	0.41	1.8	0.54	2.38
05/06/19	2,6,9	RW-1, -4, -5, -9, -10, -11, -18, -22, -23, -24, -26, -27, -28, -29, -30, -31, -32, -33, -35, -37, -40, -41, -42, -43, -44, -45, -47, -48, -49, and -50; VEW-40; TFR-5, -7, -9, -10, -11, -13, -16, -19, -21, -24, -26, -28, -30, -35, -36, and -37	8015M & 8260M	1,860	710	2,900	630	2,900	3.8	12	0.46	2.0	<0.55	<2.0	<0.13	<0.50	<0.12	<0.50	0.64	2.8	0.64	2.8
06/06/19	2,6,9	RW-1, -4, -5, -9, -10, -11, -18, -22, -23, -24, -26, -27, -28, -29, -30, -31, -32, -33, -35, -37, -40, -41, -42, -43, -44, -45, -47, -48, -49, and -50; VEW-40; TFR-5, -7, -9, -10, -11, -12, -13, -14, -15, -16, -18, -19, -21, -22, -24, -26, -28, -29, -30, -32, -33, TF-17, TFR-18, TFR-19, TFR-22, TFR-25, TF-18, RTF-18-E, RTF-18-NW	8015M & 8260M	5,375	950	3,900	860	3,900	5.3	17	0.25	1.1	<0.55	<2.0	0.21	0.8	<0.12	<0.5	0.46	2.0	0.46	2.0
07/10/19	2,6,9	Central Area - (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15, TFR-16), (TFR-5, TFR-7, TFR-9, TFR-10, TFR-12); Eastern Area - (RW-1, RW-11, RW-18, RW-13, RW-4, RW-5, RW-9, RW-10, TFR-21, TFR-26, TFR-27, TFR-28, TFR-34); Southern Area - (RW-23, RW-30, RW-31, 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, RW-50).	8015M & 8260M	1,962	2,100	8,500	1,900	8,500	5.3	17	0.37	1.6	<0.55	<2.0	0.58	2.2	0.25	1.1	0.78	3.4	1.03	4.5



TABLE 6
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	GRO		GRO as Hexane		Benzene		Ethylbenzene		MTBE		Toluene		o-Xylene		m,p-Xylenes		Total Xylenes	
				Field OVA Reading	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
08/05/19	6	Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-18), (RW-13), (RW-4, RW-5, RW-9, RW-10); Southern Area - (RW-23), (RW-30, RW-31, 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, RW-50).	8015M & 8260M	2,620	2,700	11,000	2,500	11,000	6.6	21	0.37	1.6	<0.55	<2.0	0.77	2.9	0.25	1.1	0.94	4.1	1.19	5.2
09/09/19	6	Central Area - (TFR-21, TFR-26, TFR-27, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13), (RW-4, RW-5, RW-9, RW-10); Southern Area - (RW-23), (RW-30, RW-31, 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, RW-50).	8015M & 8260M	2,180	2,300	9,600	2,100	9,600	5.0	16	1.0	4.4	<0.55	<2.0	0.72	2.7	0.28	1.2	1.6	6.9	7.18	8.1
10/31/19		Central Area - (TFR-21, TFR-26, TFR-27, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13, RW-14), (RW-4, RW-5, RW-9, RW-10); Southern Area - (RW-30, RW-31, RW-32), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	2,176	3,400	14,000	3,100	14,000	5.6	18	0.92	4.0	<0.55	<2.0	0.61	2.3	0.46	2.0	2.2	9.7	2.66	12
11/20/19		Central Area - (TFR-21, TFR-26, TFR-27, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13, RW-14), (RW-4, RW-5, RW-9, RW-10); Southern Area - (RW-30, RW-31, RW-32), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	1,290	3,200	13,000	2,800	13,000	2.0	6.5	0.83	3.6	<0.55	<2.0	0.53	2.0	0.39	1.7	1.3	5.8	1.69	7.5
12/16/19		Central Area - (TFR-21, TFR-26, TFR-27, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13, RW-14), (RW-4, RW-5, RW-9, RW-10); Southern Area - (RW-30, RW-31, RW-32), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	1,566	2,300	9,600	2,100	9,600	5.0	16	1.0	4.4	<0.55	<2.0	0.72	2.7	0.28	1.2	1.6	6.9	1.88	8.1
1/15/2020		Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-7), (RW-13, RW-14), (RW-4, RW-9, RW-10); Southern Area - (RW-30, RW-31, RW-32), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	1,446	2,400	10,000	2,300	10,000	2.20	7.10	0.69	3.00	<1.1	<4	0.93	3.50	0.62	2.70	1.70	7.40	2.32	10
2/18/2020		Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-7), (RW-13, RW-14), (RW-4, RW-9, RW-10); Southern Area - (RW-30, RW-31, RW-32), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	996	1,900	7,800	1,700	7,800	2.10	6.80	0.55	2.40	<.55	<2	0.80	3.00	0.55	2.40	1.40	6.20	1.95	8.6
3/16/2020		Central Area - (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TFR-29, TFR-32, TFR-35, TFR-36, TFR-37), (TFR-17, TFR-18, RFR-19, TFR-22, TFR-25), (TFR-11, TFR-13, TFR-14, TFR-15), (TFR-5, TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1, RW-6, RW-15, RW-16, RW-17), (VEW-32, VEW-37, RW-2, RW-7, RW-11), (VEW-33, VEW-36, RW-8, RW-12, RW-18), (VEW-34, VEW-35, RW-13, RW-14), (RW-3, RW-4, RW-5, RW-9, RW-10); Southern Area - (RW-19, RW-20, RW-22, RW-29, RW-45), (RW-35, RW-38, RW-39, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42, RW-46), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	864	1,198	4,900	313	1,100	1.94	6.20	0.41	1.80	<.55	<2	0.74	2.80	0.48	2.10	1.22	5.30	1.7	7.4



TABLE 6
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	GRO		GRO as Hexane		Benzene		Ethylbenzene		MTBE		Toluene		o-Xylene		m,p-Xylenes		Total Xylenes	
				Field OVA Reading	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
4/15/2020		Central Area - (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TFR-29, TFR-32, TFR-35, TFR-36, TFR-37), (TFR-17, TFR-18, RFR-19, TFR-22, TFR-25), (TFR-11, TFR-13, TFR-14, TFR-15), (TFR-5, TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1, RW-6, RW-15, RW-16, RW-17), (VEW-32, VEW-37, RW-2, RW-7, RW-11), (VEW-33, VEW-36, RW-8, RW-12, RW-18), (VEW-34, VEW-35, RW-13, RW-14), (RW-3, RW-4, RW-5, RW-9, RW-10); Southern Area - (RW-19, RW-20, RW-22, RW-29, RW-45), (RW-35, RW-38, RW-39, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42, RW-46), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	606	830	3,400	740	3,400	0.94	3.00	0.18	0.80	<.55	<2	0.42	1.60	0.25	1.10	0.55	2.40	0.8	3.5
5/15/2020		Central Area - (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-17, TFR-18, TFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-33), (RW-22, RW-29), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	522	1,100	4,600	960	4,600	0.78	2.50	0.28	1.20	<.55	<2	0.48	1.80	0.37	1.60	0.88	3.80	1.25	5.4
6/22/2020		Central Area - (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-17, TFR-18, TFR-19), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-33), (RW-22, RW-29), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	708	1,900	7,700	1,700	7,700	1.50	4.90	0.20	0.86	<.55	<2	0.32	1.20	0.30	1.30	0.60	2.60	0.9	3.9
7/20/2020		Central Area - (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-17, TFR-18, TFR-19), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-33), (RW-22, RW-29), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015 & 8260B	630	950	3,900	750	3,900	1.10	3.50	0.21	0.91	<.55	<2.0	0.42	1.60	0.48	2.10	0.71	3.10	1.19	5.2
9/14/2020		Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-33), (RW-22, RW-29), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015 & 8260B	748	1,900	7,700	1,400	7,700	3.40	11.00	0.35	1.50	<.55	<2.0	0.40	1.50	0.35	1.50	0.85	3.70	1.2	5.2

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
- Reported concentrations are shown in bold.

- 1 = Temporary thermal oxidizer 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-3 through 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.
- 8 = Temporary thermal oxidizer VES shutdown on 01/08/2019.
- 9 = Permanent thermal oxidizer VES started on 03/13/2019.



TABLE 7A
Summary of LNAPL Removal in Well GMW-62 - Third Quarter 2020
 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 ^A (gallons)	LNAPL Removed with Socks ^A (pounds)	LNAPL Removed with Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^{A, B} (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^{A, B} (pounds)
<i>End of Second Quarter 2020:</i>							145.0	992.4
07/02/20	--	35.13	--	0.0	1.6	0.2	145.2	994.0
07/09/20	--	34.07	--	0.0	1.0	0.1	145.4	995.0
08/10/20	--	34.42	--	0.0	1.9	0.3	145.7	996.9
08/19/20	--	34.41	--	0.0	0.4	0.1	145.7	997.2
09/02/20	--	34.51	--	0.0	0.9	0.1	145.9	998.1
09/23/20	--	34.72	--	0.0	1.1	0.2	146.0	999.2
09/30/20	--	34.59	--	0.0	1.4	0.2	146.2	1,000.6

Cumulative for the Reporting Period^A:	0.0	8.2	1.2	1.2	8.2
Cumulative Beginning January 2014^{A, B}:	112.0	234.2	34.2	146.2	1,000.6

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable

A = Difference between additive sum and displayed cumulative value is a result of rounding and/or significant figures.

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

TABLE 7B
Summary of LNAPL Removal in Well GMW-68 - Third Quarter 2020
 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 ^A (gallons)	LNAPL Removed with Socks ^A (pounds)	LNAPL Removed with Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^{A, B} (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^{A, B} (pounds)
<i>End of Second Quarter 2020:</i>							81.2	555.9
07/02/20	--	34.22	--	0.0	2.3	0.3	81.6	558.2
07/09/20	--	33.33	--	0.0	2.0	0.3	81.9	560.2
08/10/20	33.59	34.08	0.49	0.0	3.9	0.6	82.4	564.1
08/19/20	33.50	33.82	0.32	0.0	3.4	0.5	82.9	567.5
08/26/20	33.48	33.53	0.05	0.0	3.1	0.5	83.4	570.6
09/02/20	--	33.61	--	0.0	2.9	0.4	83.8	573.5
09/09/20	--	33.64	--	0.0	2.6	0.4	84.2	576.1
09/23/20	--	33.79	--	0.0	2.4	0.3	84.5	578.5
09/30/20	--	33.62	--	0.0	2.1	0.3	84.8	580.6
Cumulative for the Reporting Period^A:				0.0	24.7	3.6	3.6	24.7
Cumulative Beginning October 2016^{A, B}:				33.5	351.4	51.3	84.8	580.6

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable

A = Difference between additive sum and displayed cumulative value is a result of rounding and/or significant figures.

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



TABLE 7C
Summary of LNAPL Removal in Well GMW-7 - Third Quarter 2020
 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)
No Pumping/Skimming from Product Recovery System Well During 3rd Quarter 2020								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning December 2014 ^A:				8.0	135.6	19.8	27.8	190.4

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable

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



TABLE 7D
Summary of LNAPL Removal in Well TF-19 - Third Quarter 2020
 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)
No Pumping/Skimming from Product Recovery System Well During 3rd Quarter 2020								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning June 2015 ^A:				6.75	199.1	29.08	35.83	245.2

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 7E
Summary of LNAPL Removal in Well TFR-9 - Third Quarter 2020
 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 2020								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning October 2018 ^{A,B}:				150.0	0.0	0.0	150.0	1,026.5

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable

A = Cumulative LNAPL removed since October 2018 following hookup of well to a newly installed controller.

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of expanded product recovery system operations that began on October 8, 2018 (skimming from well TFR-9 initiated on October 8, 2018 but pump was manually shutdown on January 16, 2019 to allow for LNAPL recovery and resumed operating from February 7-27, 2019; Pump remained off-line through June 2019 based on regular gauging data showing little to no measureable product in the well).



TABLE 7F
Summary of LNAPL Removal in Well GMW-18 - Third Quarter 2020
 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 2020								
Cumulative for the Reporting Period ^B:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning March 2017 ^A:				101.1	75.8	11.1	112.2	767.6

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable

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

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of expanded product recovery system operations that began on October 8, 2018 (skimming from well GMW-18 initiated on October 8, 2018; pump manually shutdown on January 16, 2019 due to insufficient yield and remained off-line through June 2019).



TABLE 7G
Summary of LNAPL Removal in Well TFR-12 - Third Quarter 2020
 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 2020								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning April 2018 ^{A,B}:				283.3	0.0	0.0	283.3	1,938.8

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable

A = Cumulative LNAPL removed since 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, and temporarily discontinued from September 5, 2018 to October 8, 2018 pending hookup to a new controller; Pump manually shutdown on March 11, 2019 due to insufficient yield and remained off-line through June 2019).



TABLE 7H
Summary of LNAPL Removal in Well TFR-14 - Third Quarter 2020
 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 2020								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning April 2018 ^{A,B}:				1.1	0.0	0.0	1.1	7.3

Legend / Notes:

LNAPL = Light non-aqueous phase liquids

feet btc = Feet below top of casing

Sock = LNAPL absorbent sock

-- = Not applicable

TABLE 71
Summary of LNAPL Removal in Well TF-15 - Third Quarter 2020
 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 2020								
Cumulative for the Reporting Period ^B:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning October 2016 ^A:				187.1	52.5	7.7	194.8	1,332.9

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable

A = Cumulative LNAPL removed since October 2016. No LNAPL removed previously during 2016 or throughout 2015 due to excavation 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 = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of expanded product recovery system operations that began on October 8, 2018 (skimming from well TF-15 initiated on October 8, 2018 but pump was manually shutdown on November 15, 2018 to allow for LNAPL recovery, and also operated from November 28, 2018 to March 11, 2019 and April 17, 2019 to May 2, 2019; Pump has otherwise remained off-line due to insufficient yield).



TABLE 7J
Summary of LNAPL Removal in Well TFR-15 - Third Quarter 2020
 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 2020								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning October 2018 ^{A,B}:				23.0	0.0	0.0	23.0	157.4

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable

A = Cumulative LNAPL removed since October 2018 following hookup of well to a newly installed controller.

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of expanded product recovery system operations that began on October 8, 2018 (skimming from well TFR-15 initiated on October 18, 2018 but pump was manually shutdown on November 15, 2018 to allow for LNAPL recovery with operations resuming from November 28, 2018 to December 7, 2018, and again from December 19, 2018 to February 27, 2019; Pump remained off-line through June 2019 due to insufficient yield).

TABLE 7K
Summary of LNAPL Removal in Well TF-16 - Third Quarter 2020
 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 2020								

Cumulative for the Reporting Period:	0.0	0.0	0.0	0.0	0.0
Cumulative Beginning March 2017 - June 2019 ^B:	323.0	0.0	0.0	323.0	2,210.4
Cumulative Beginning October 2016 ^A:	333.3	35.8	5.2	338.5	2,316.3

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 excavation 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; Operations resumed on an intermittent basis starting on July 19, 2018, and regularly from September 19, 2018 to October 3, 2018, and again from December 14, 2018 to March 11, 2019 and May 2-6, 2019. Pump has otherwise remained off-line due to insufficient yield.

TABLE 7L
Summary of LNAPL Removal in Well GW-14R - Third Quarter 2020
 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 2020								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning October 2018 ^{A,B}:				360.0	0.0	0.0	360.0	2,463.6

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable

A = Cumulative LNAPL removed since October 2018 following hookup of well to a newly installed controller.

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of expanded product recovery system operations that began on October 8, 2018 (skimming from well GW-14R initiated on October 8, 2018 but pump was manually shutdown on April 17, 2019 to allow for LNAPL recovery, and only otherwise operated briefly during the reporting period from May 2-6, 2019 to evaluate the well yield).

TABLE 7M
Summary of LNAPL Removal in Well TFR-18 - Third Quarter 2020
 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 2020								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning October 2018 ^{A,B}:				16.1	0.0	0.0	16.1	110.4

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable

A = Cumulative LNAPL removed since October 2018 following hookup of well to a newly installed controller.

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of expanded product recovery system operations that began on October 8, 2018 (skimming from well GW-14R initiated on October 8, 2018 but pump was manually shutdown on April 17, 2019 to allow for LNAPL recovery, and only otherwise operated briefly during the reporting period from May 2-6, 2019 to evaluate the well yield).



TABLE 7N
Summary of LNAPL Removal in Well TFR-22 - Third Quarter 2020
 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 2020								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning October 2018 ^{A,B}:				226.2	0.0	0.0	226.2	1,547.9

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable

A = Cumulative LNAPL removed since October 2018 following hookup of well to a newly installed controller.

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of expanded product recovery system operations that began on October 8, 2018 (skimming from well TFR-22 initiated on October 8, 2018 but pump was manually shutdown on November 28, 2018 to allow for LNAPL recovery; Pumping resumed on from December 14, 2018 to April 17, 2019, and May 30, 2019 through June 30, 2019).

TABLE 70
Summary of LNAPL Removal in Well TFR-24 - Third Quarter 2020
 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 2020								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning October 2018 ^{A,B}:				109.1	0.0	0.0	109.1	746.4

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable

A = Cumulative LNAPL removed since October 2018 following hookup of well to a newly installed controller.

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of expanded product recovery system operations that began on October 8, 2018 (skimming from well TFR-24 initiated on October 8, 2018 but pump was manually shutdown on November 28, 2018 to allow for LNAPL recovery, and also operated from December 7-27, 2018, January 4-7, 2019, January 11, 2019 to February 7, 2019, and February 19, 2019 to March 11, 2019; Pump remained off-line through June 2019 due to insufficient yield; pump manually shutdown on February 14, 2020 due to insufficient yield).



TABLE 7P
Summary of LNAPL Removal in Well TFR-29 - Third Quarter 2020
 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 ^A (gallons)	LNAPL Removed with Socks ^A (pounds)	LNAPL Removed with Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^{A,B} (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^{A,B} (pounds)
<i>End of Second Quarter 2020:</i>							844.3	5,778.0
07/01/20	33.04	35.13	2.09	2.1	--	--	846.5	5,792.6
07/14/20	--	33.04	0.00	0.0	--	--	846.5	5,792.6
08/10/20	32.63	33.98	1.35	0.0	--	--	846.5	5,792.6
08/12/20	32.74	34.00	1.26	1.1	--	--	847.5	5,799.9
08/14/20	32.82	33.82	1.00	1.1	--	--	848.6	5,807.2
08/19/20	32.85	33.78	0.93	1.1	--	--	849.7	5,814.5
08/26/20	32.89	33.75	0.86	1.1	--	--	850.7	5,821.8
09/02/20	33.01	33.50	0.49	1.1	--	--	851.8	5,829.1
09/09/20	33.01	33.75	0.74	1.1	--	--	852.9	5,836.4
09/23/20	33.01	36.11	3.10	3.2	--	--	856.1	5,858.3
09/24/20	32.95	35.82	2.87	2.1	--	--	858.2	5,872.9
09/30/20	33.12	35.76	2.64	2.1	--	--	860.3	5,887.5
Cumulative for the Reporting Period ^A:				16.0	0.0	0.0	16.0	109.5
Cumulative Beginning April 2018 ^{A,B,C,D}:				860.3	0.0	0.0	860.3	5,887.5

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable

A = Difference between additive sum and displayed cumulative value is a result of rounding and/or significant figures.

B = Cumulative LNAPL removed since April 2018 following installation of well during November 2017.

C = 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-29 initiated on April 23, 2018, and temporarily discontinued from September 5, 2018 to October 8, 2018 pending hookup to a new controller).

D = Skimmer shutdown on February 21, 2020 due to insufficient yield.

TABLE 7Q
Summary of LNAPL Removal in Well TFR-33 - Third Quarter 2020
 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 2020								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning October 2018 ^{A,B}:				123.0	0.0	0.0	123.0	841.7

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 2018 following hookup of well to a newly installed controller.

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of expanded product recovery system operations that began on October 8, 2018 (skimming from well TFR-33 initiated on October 8, 2018 but pump was manually shutdown on December 7, 2018 to allow for LNAPL recovery, and also operated from December 19, 2018 through February 27, 2019; Pump remained off-line through June 2019 due to insufficient yield).

TABLE 7R
Summary of LNAPL Removal in Well RTF-18-E - Third Quarter 2020
 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 2020								

Cumulative for the Reporting Period:	0.0	0.0	0.0	0.0	0.0	0.0
Cumulative Beginning May 2016 - July 2016^A:	47.5	0.0	0.0	47.5	325.1	0.0
Cumulative Beginning August 2016 - September 2019^B:	593.4	0.0	0.0	593.4	4,061.5	0.0
Cumulative Beginning May 2016^A:	678.1	0.0	0.0	678.1	4,640.2	0.0

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable

A = Cumulative LNAPL removed since 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 adequate for effective removal via skimming until March 15, 2018 when the pump was again shutdown and remained off-line until December 27, 2018 (pumping resumed until February 27, 2019 with no subsequent operations through June 2019 based on regular gauging data showing little to no measureable product in the well); pump shutdown on February 14, 2020 due to insufficient yield.

TABLE 7S
Summary of LNAPL Removal in Well RTF-18-NW - Third Quarter 2020
 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 2020								

Cumulative for the Reporting Period:	0.0	0.0	0.0	0.0	0.0
Cumulative Beginning May 2016 - July 2016 ^A:	76.5	0.0	0.0	76.5	523.5
Cumulative Beginning August 2016 - June 2019 ^B:	2,961.0	0.0	0.0	2,961.0	20,262.6
Cumulative Beginning May 2016 ^A:	3,038.6	0.0	0.0	3,038.6	20,793.6

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable

A = Cumulative LNAPL removed since 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 continued to be adequate for effective removal via skimming until March 11, 2019 with no subsequent operations through June 2019 based on regular gauging data showing little to no measureable product in the well.



TABLE 7T
Summary of LNAPL Removal in Well RTF-18-N - Third Quarter 2020
 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 2020								

Cumulative for the Reporting Period:	0.0	0.0	0.0	0.0	0.0	0.0
Cumulative Beginning April 2016 - July 2016 ^A:	47.5	0.0	0.0	47.5	325.1	0.0
Cumulative Beginning August 2016 - June 2019 ^B:	497.5	0.0	0.0	497.5	3,404.5	0.0
Cumulative Beginning April 2016 ^A:	545.0	0.0	0.0	545.0	3,729.6	0.0

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable

A = Cumulative LNAPL removed since 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, and November 7, 2017 to January 7, 2018, to allow for LNAPL recovery (pumping resumed until February 27, 2019 with no subsequent operations through June 2019 based on regular gauging data showing little to no measureable product in the well).

TABLE 7U
Summary of LNAPL Removal in Well TF-18 - Third Quarter 2020
 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 2020							

Cumulative for the Reporting Period:	0.0	0.0	0.0	0.0	0.0	0.0
Cumulative Beginning January 2014 - July 2016 ^A:	266.1	307.3	44.9	311.0	2,128.1	
Cumulative Beginning August 2016 - June 2019 ^B:	2,003.0	0.0	0.0	2,003.0	13,707.0	
Cumulative Beginning January 2014 ^A:	2,270.2	307.3	44.9	2,315.1	15,842.4	

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable

A = Cumulative LNAPL removed 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 (pumping resumed from August 10, 2017 to January 25, 2019 with no subsequent operations through June 2019 based on regular gauging data showing little to no measureable product in the well).

TABLE 7V
Summary of LNAPL Removal in Well RTF-18-NNW - Third Quarter 2020
 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 2020								

Cumulative for the Reporting Period:	0.0	0.0	0.0	0.0	0.0	0.0
Cumulative Beginning April 2016 - July 2016 ^A:	54.5	0.0	0.0	54.5	373.0	
Cumulative Beginning August 2016 - June 2019 ^B:	62.5	0.0	0.0	62.5	427.7	
Cumulative Beginning April 2016 ^A:	117.0	0.0	0.0	117.0	800.7	

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-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 temporarily exhibited a further increasing overall trend during 2018 that has since reversed with little to no measurable product since late February 2019).

TABLE 7W
Summary of LNAPL Removal in Well RTF-18-W - Third Quarter 2020
 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 2020								

Cumulative for the Reporting Period:	0.0	0.0	0.0	0.0	0.0	0.0
Cumulative Beginning April 2016 - July 2016 ^A:	38.8	0.0	0.0	38.8	265.2	
Cumulative Beginning August 2016 - June 2019 ^B:	371.0	0.0	0.0	371.0	2,538.8	
Cumulative Beginning April 2016 ^A:	409.8	0.0	0.0	409.8	2,804.0	

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable

A = Cumulative LNAPL removed since 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 continued to be adequate for effective removal via skimming until April 4, 2019 when the pump was again shutdown and remained off-line through June 2019 based on regular gauging data showing little to no measureable product in the well.



TABLE 8
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	TPHg	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylene	TBA	MTBE	DIPE	ETBE	TAME
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
04/22/08		--	--	--	--	71	25	17	42	30	14	4.6	<2.0	<2.0	<2.0
05/01/08		--	--	810	--	--	--	--	--	--	--	--	--	--	--
05/16/08		--	--	760	--	--	--	--	--	--	--	--	--	--	--
06/12/08		--	--	--	--	<0.50	<0.50	<0.50	<0.50	<0.50	25	7.7	<2.0	<2.0	<2.0
07/19/08		--	--	170	<100	27	0.77	7.0	13	7.9	<10	3.9	<2.0	<2.0	<2.0
09/03/08		--	--	--	--	--	--	--	--	--	<10	--	--	--	--
09/08/08		--	--	--	--	27	0.99	8.3	13	8.2	<10	3.1	<2.0	<2.0	<2.0
09/15/08		--	--	--	--	36	0.81	8.5	12	6.8	<10	3.8	<2.0	<2.0	<2.0
11/13/08		--	--	--	--	27	<0.50	2.0	12	5.6	<10	<0.50	<2.0	<2.0	<2.0
11/26/08		--	--	--	--	<0.50	<0.50	<0.50	1.3	0.61	16	5.6	<2.0	<2.0	<2.0
12/13/08		--	--	--	--	<0.50	<0.50	0.56	1.1	0.54	19	7.0	<2.0	<2.0	<2.0
01/09/09		--	--	--	--	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<2.0	<2.0	<2.0
03/05/09		--	--	<100	--	21	<0.50	2.5	7.2	3.1	12	3.1	<2.0	<2.0	<2.0
03/18/09		--	--	200	170	21	<0.50	2.9	7.0	4.5	13	3.3	<2.0	<2.0	<2.0
05/15/09		--	--	<100	--	--	--	--	--	--	--	--	--	--	--
06/04/09		--	--	190	--	26	<0.50	3.3	10	6.6	<10	4.8	<2.0	<2.0	<2.0
06/24/09		--	--	--	--	28	<0.50	2.5	7.6	4.2	12	4.4	<2.0	<2.0	<2.0
05/28/09		--	--	170	--	27	<0.50	2.6	7.9	4.5	<10	3.6	<2.0	<2.0	<2.0
11/19/09		--	--	<100	--	15	<0.50	1.3	5.8	2.9	5.6	2.3	1.2	<2.0	<2.0
10/26/10		--	--	--	--	20	<0.50	1.6	7.4	2.1	8.0	2.9	1.1	<2.0	<2.0
06/01/11		--	--	90	--	--	--	--	--	--	--	--	--	--	--
07/14/11		--	--	--	--	13	<0.50	2.3	6.2	3.0	6.7	1.6	<2.0	<2.0	<2.0
09/13/11		--	--	--	--	5.0	<0.50	0.37	3.4	0.99	<10	1.3	<2.0	<2.0	<2.0
09/22/11		--	--	--	--	5.5	<0.50	0.92	7.2	1.6	5.6	1.1	<2.0	<2.0	<2.0

TABLE 8
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	TPHg	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylene	TBA	MTBE	DIPE	ETBE	TAME
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
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
06/15/12		--	--	--	--	39	13	17	88	26	<10	1.3	0.52	<2.0	<2.0
08/31/12		--	--	820	940	--	--	--	--	--	--	--	--	--	--
09/27/12		--	--	5,300	3,800	--	--	--	--	--	--	--	--	--	--
10/23/12		--	--	--	--	67	60	110	460	140	<10	<0.50	<2.0	<2.0	<2.0
01/31/13		--	--	3,600	--	--	--	--	--	--	--	--	--	--	--
05/01/13		--	--	6,300	5,500	20	4.7	8.0	41	14	4.8	0.56	<2.0	<2.0	<2.0
07/12/13		--	--	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<2.0	<2.0	<2.0
08/20/13		--	--	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<2.0	<2.0	<2.0
12/19/13		--	--	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<2.0	<2.0	<2.0
02/07/14		--	--	1,500	2,300	--	--	--	--	--	--	--	--	--	--
03/21/14		--	--	--	--	61	5.1	23	150	45	<10	0.87	<2.0	<2.0	<2.0
05/29/14	1	--	8015M & 8260B	--	--	29	1.0	30	180	45	<10	1.0	<2.0	<2.0	<2.0
07/09/14	2	GW-15, GW-16	8015M & 8260B	720	1,800	82	3.8	27	110	31	<7.0	<0.40	<0.50	<0.40	<0.30
08/13/14		GW-15, GW-16	8015M & 8260B	150	1,500	57	3.7	30	130	36	<7.0	0.77	<0.50	<0.40	<0.30
09/17/14		GW-15, GW-16	8015M & 8260B	800	3,500	23	0.73	20	170	40	<7.0	0.83	<0.50	<0.40	<0.30
10/20/14		GW-15, GW-16	8015M & 8260B	560	3,600	31	2.2	40	240	54	<7.0	0.6	<0.50	<0.40	<0.30
11/17/14	3,4,1	GW-15, GW-16	8015M & 8260B	260	1,400	21	0.71	10	62	18	<7.0	<0.40	<0.50	<0.40	<0.30

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Sample Date	Notes	GWETS Wells On Line	Laboratory Analysis Methods	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylene	TBA	MTBE	DIPE	ETBE	TAME
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
12/17/14	4,1	GW-15, GW-16	8015M & 8260B	190	880	23	0.66	8.8	48	14	<7.0	<0.40	<0.50	<0.40	<0.30
01/14/15	4,1	GW-15, GW-16	8015M & 8260B	4,600	3,800	150	2.8	29	130	37	<7.0	<0.40	<0.50	<0.40	<0.30
02/20/15	4,1	GW-15, GW-16	8015M & 8260B	2,500	8,100	230	9.8	220	880	220	<7.0	0.45	<0.50	<0.40	<0.30
03/27/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	620	980	9.9	<0.30	2.7	18	5.9	<7.0	1.0	<0.50	<0.40	<0.30
05/11/15	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	330	16	5.2	5.9	37	14	<7.0	0.58 J	<0.50	<0.40	<0.30
06/03/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	150	340	20	6.6	12	22	25	<7.0	0.52 J	<0.50	<0.40	<0.30
07/09/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	180	610	<0.20	<0.30	<0.20	<0.40	<0.30	<7.0	0.62 J	<0.50	<0.40	<0.30
08/17/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	430	<40	<0.20	<0.30	<0.20	0.95 J	<0.30	<7.0	0.71 J	<0.50	<0.40	<0.30
09/03/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	86 J	570	5.9	0.37 J	3.7	10	14	<7.0	0.45 J	<0.50	<0.40	<0.30
10/05/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	500	7.3	<0.30	8.7	35	15	<7.0	0.73 J	<0.50	<0.40	<0.30
11/02/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	420	3,400	5.1	<0.30	17	130	22	<7.0	0.85 J	<0.50	<0.40	<0.30
12/07/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	710	3,800	0.70	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
01/12/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	2,000	510	14	<0.30	3.6	25	7.0	<7.0	<0.40	<0.50	<0.40	<0.30
02/01/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	72 J	180	13	<0.30	0.53	2.7	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
03/14/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	270	1,100	0.91	<0.30	<0.20	1.6	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
04/04/16	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	76 J	100	0.99	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
05/04/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	170	470	<0.20	<0.30	<0.20	1.3	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
06/01/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	280	75 J	4.9	<0.30	<0.20	<0.40	<0.30	<7.0	0.43 J	<0.50	<0.40	<0.30
07/11/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	330	<40	4.7	<0.30	<0.20	<0.40	<0.30	<7.0	0.79 J	<0.50	<0.40	<0.30
08/01/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	3.7	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
09/01/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	2.7	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
10/12/16	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	230	<40	4.5	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
11/01/16	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	120	52 J	3.1	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
12/05/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	450	51 J	<0.20	<0.30	<0.20	<0.40	<0.30	<7.0	0.60 J	<0.50	<0.40	<0.30

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				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
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	7,8	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	1.1	<0.30	<0.20	<0.40	<0.30	<7.0	0.41 J	<0.50	<0.40	<0.30
08/06/18		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	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-15, GW-16	8015M & 8260B	<60	<40	0.38 J	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
10/29/18		GW-15, GW-16	8015M & 8260B	<60	<40	2.4	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
11/14/18		GW-15, GW-16	8015M & 8260B	<60	<40	2.0	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
12/17/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 624	170	<100	<0.5	<2.0	<2.0	<2.0	<2.0	<10	<2.0	<2.0	<2.0	<2.0

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Sample Date	Notes	GWETS Wells On Line	Laboratory Analysis Methods	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylene	TBA	MTBE	DIPE	ETBE	TAME
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
01/08/19		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	--	<40	1.4	<0.30	<0.20	<0.40	<0.30	<7.0	0.92 J	<0.50	<0.40	<0.30
02/06/19	9	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	1.4	<0.30	<0.20	0.52 J	<0.30	<7.0	0.49 J	<0.50	<0.40	<0.30
01/30/20	10,11	GW-13, GW-15, GW-16	8015M	790	--	--	--	--	--	--	--	--	--	--	--
03/11/20	10,11	GW-15, GW-16	8015M	370	--	<5	<5	<5	<1	<0.5	<10	<0.5	<0.5	<0.5	<0.5
04/22/20		GW-16	8015M	<94	<50	--	--	--	--	--	--	--	--	--	--
05/27/20		GW-16, GMW-31, GW-14R	8015M & 8260B	610	490	46	<5	<5	<10	<5	<10	<5	<5	<1.0	<1.0
06/24/20		GW-16, GMW-31, GW-14R	8015M & 8260B	850	640	79	<5	<5	<10	<5	12	6.4	<5	<1.0	<1.0
07/24/20		GW-16, GMW-31, GW-14R	8015M & 8260B	1,000	150	6.2	<5	<5	<10	<5	18	<5	<5	<1.0	<1.0

Legend / Notes:

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

GWETS = Groundwater extraction and treatment system
 TPHd = Total petroleum hydrocarbons as diesel
 ETBE = Ethyl tertiary-butyl ether

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

<1 = Not detected at or above the Method Reporting Limit (MRL) shown. Beginning 7/9/14, 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.

- Reported concentrations are shown in bold.

1 = GWETS manually shut down.

2 = GWETS restarted on 7/2/14, 1/13/15 and 2/25/15.

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 4/13/15, 5/6/15, 4/4/16, 9/26/16, 11/7/16, 3/8/17, 4/17/17 and 7/3/17, and restarted on 4/27/15, 5/8/15, 4/28/16, 10/12/16, 11/23/16, 3/15/17, 4/25/17 and 7/17/17, respectively.

6 = GWETS restarted following an automatic shut down on 2/4/17.

7 = GWETS manually shut down on 11/20/17 and largely remained off-line through late May 2018, as well as during July and December 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 along with system maintenance activities.

8 = GWETS manually shut down from 7/9/18 to 7/12/18 for installation of replacement discharge totalizer, 7/13/18 to 7/16/18 for repairs, and 7/18/18 to 7/20/18 for carbon changeout fieldwork.

9 = GWETS off-line since 2/27/19 pending the completion of an alternative waste discharge evaluation study.

10 = GWETS restarted on October 10, 2019 per the new sewer discharge permit. Sampling will begin January 1, 2020 per the permit requirements.

11 = TPHd and benzene, toluene, and ethylbenzene analyzed for mass extraction purposes only; new Industrial Waste Discharge (IWD) permit has different analytical requirements than previous stormsewer discharge permit.

12 = GWETS shutdown on 6/30/20 to enhance the water treatment process.

TABLE 9A
Historical Summary of Field Vapor Readings - Former Tank Farm Horizontal 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 **	HW-8	HW-9
			25	25	25	25	60	220
07/09/14	1	VEW-32, VEW-33, VEW-34, VEW-35, VEW-36, VEW-37, HW-1, HW-3, HW-5, HW-7	69	20	140	4,176	--	--
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	--	--
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	--	--
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	--	--
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	--	--
12/17/14	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	0	0	0	0.2	--	--
03/30/15	4,5	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	24	2	62	382.0	--	--
04/02/15	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	400	34	270	370	--	--
04/06/15	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	825	160	835	800	--	--
04/08/15	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	800	315	600	580	--	--
04/15/15	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	680	297	545	585	--	--
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	--	--
06/08/15	6,7	VEW-32, VEW-33, VEW-34	--	--	--	--	--	--
06/12/15	6	VEW-32, VEW-33, VEW-34	--	--	--	--	--	--
06/15/15	6	VEW-32, VEW-33, VEW-34	--	--	--	--	--	--
06/26/15	6	VEW-32, VEW-33, VEW-34	--	--	--	--	--	--
07/16/15	6	VEW-32, VEW-33, VEW-34	--	--	--	--	--	--
08/10/15	4,6,8	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5	1,947	28	676	732	--	--
08/20/15	6,9	VEW-32, VEW-33, HW-1, HW-3, HW-5	1,792	--	1,283	1,526	--	--
09/08/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	1,914	--	839	1,811	--	--
09/16/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	1,333	--	756	1,142	--	--
10/09/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	854	--	462	807	--	--
11/04/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	605	--	372	500	--	--
12/07/15	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	880	--	590	760	--	--
01/13/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	640	--	415	390	--	--
02/08/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	520	--	300	240	--	--
03/02/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	400	--	360	180	--	--
04/06/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	420	--	260	220	--	--
05/04/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	400	--	240	180	--	--
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	--	--



TABLE 9A
Historical Summary of Field Vapor Readings - Former Tank Farm Horizontal 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 **	HW-8	HW-9
			25	25	25	25	60	220
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	--	--
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	--	--
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	--	--
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	--	--
06/05/17		HW-1, HW-3, HW-5	107	15	82	211	--	--
07/19/17	13	HW-5, HW-7 and VEW-39	--	49	79	286	--	--
08/09/17	14,15	HW-1, HW-5, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	192	--	94	236	--	--
09/07/17	14,15	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	180	--	60	220	--	--
10/12/17	14,15	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	220	--	80	260	--	--
11/02/17	14,15	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	346	--	105	334	--	--
12/11/17	14,15	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	280	--	90	220	--	--
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	--	--
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	--	--	--	--	--	--
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	--	160	240	--	--
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	--	140	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	--	120	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	--	--	--	--	--	--
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 -50	--	--	--	--	--	--
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 -50	--	--	--	--	--	--



TABLE 9A
Historical Summary of Field Vapor Readings - Former Tank Farm Horizontal 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 **	HW-8	HW-9
			25	25	25	25	60	220
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 -50	--	--	--	--	--	--
12/03/18	15	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27 -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46-, -47, -48, -49, -50	--	--	--	--	--	--
01/25/19	15	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27 -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46-, -47, -48, -49, -50	1,127	--	375	474	--	--
02/12/19	15	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27 -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46-, -47, -48, -49, -50	1,845	--	696	718	--	--
03/06/19	15	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27 -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46-, -47, -48, -49, -50	1,309	--	1,115	939	--	--
03/12/19	15,17	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27 -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46-, -47, -48, -49, -50	--	--	--	--	--	--
03/20/19	15	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27 -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46-, -47, -48, -49, -50	591	--	234	730	--	--
03/26/19	15	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27 -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46-, -47, -48, -49, -50	--	--	--	--	--	--
04/09/19	15,18	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27 -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46-, -47, -48, -49, -50	>15,000	--	1,541	1,725	--	--
11/25/19	19,20	HW-1, HW-5, HW-7, HW-8, HW-9	730	--	501	730	--	1,820
12/16/19		HW-1, HW-5, HW-7, HW-8, HW-9	4,900	--	1,336	1,215	431	1,375
01/15/20		HW-1, HW-5, HW-7, HW-8, HW-9	184	--	6	10	976	22
02/05/20		HW-1, HW-5, HW-7, HW-8, HW-9	371	--	5	124	6	843
02/14/20		HW-1, HW-5, HW-7, HW-8, HW-9	397	--	24	366	4	805
02/18/20		HW-1, HW-5, HW-7, HW-8, HW-9	139	--	4	149	3	530
02/27/20		HW-1, HW-5, HW-7, HW-8, HW-9	155	--	29	21	2	1,192
03/04/20		HW-1, HW-5, HW-7, HW-8, HW-9	2,188	--	611	461	61	774
03/16/20		HW-1, HW-5, HW-7, HW-8, HW-9	1,520	--	241	186	21	4,344
03/24/20		HW-1, HW-5, HW-7, HW-8, HW-9	339	--	57	156	6	2,681
04/01/20		HW-1, HW-5, HW-7, HW-8, HW-9	132	--	5	87	4	1,982
04/10/20		HW-1, HW-5, HW-7, HW-8, HW-9	172	--	5.1	145	0	378
04/15/20		HW-1, HW-5, HW-7, HW-8, HW-9	143	--	4	286	3	768
04/24/20		HW-1, HW-5, HW-7, HW-8, HW-9	83	--	16	337	4	780
05/01/20		HW-1, HW-5, HW-7, HW-8, HW-9	108	--	1	15000+	1	15000+
05/06/20		HW-1, HW-5, HW-7, HW-8, HW-9	99	--	18	15000+	2	15000+



TABLE 9A
Historical Summary of Field Vapor Readings - Former Tank Farm Horizontal 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 **	HW-8	HW-9
			25	25	25	25	60	220
05/15/20		HW-1, HW-5, HW-7, HW-8, HW-9	199	--	8	697	7	1,058
05/28/20		HW-1, HW-5, HW-7, HW-8, HW-9	105	--	5	636	5	1,841
06/03/20		HW-1, HW-5, HW-7, HW-8, HW-9	88	--	3	475	4	968
06/09/20		HW-1, HW-5, HW-7, HW-8, HW-9	73	--	3	399	1	853
06/22/20		HW-1, HW-5, HW-7, HW-8, HW-9	140	--	71	493	3	957
06/23/20	21	HW-1, HW-7, HW-9	--	--	--	--	--	--
07/01/20		HW-1, HW-7, HW-9	165	--	--	615	--	1,867
07/07/20		HW-1, HW-7, HW-9	123	--	--	457	--	1,882
07/09/20		HW-1, HW-7, HW-9	--	--	--	--	--	--
07/10/20		HW-1, HW-7, HW-9	--	--	--	--	--	--
07/16/20		HW-1, HW-7, HW-9	--	--	--	--	--	--
07/17/20		HW-1, HW-7, HW-9	127	--	--	387	--	3,470
07/20/20		HW-1, HW-7, HW-9	127	--	--	339	--	1,893
07/21/20		HW-1, HW-7, HW-9	--	--	--	--	--	--
07/31/20		HW-1, HW-7, HW-9	106	--	--	330	--	211
08/07/20		HW-1, HW-7, HW-9	320	--	--	503	--	929
08/10/20		HW-1, HW-7, HW-9	98	--	--	463	--	2,908
08/17/20		HW-1, HW-7, HW-9	128	--	--	660	--	3,633
08/21/20		HW-1, HW-7, HW-9	--	--	--	--	--	--
08/24/20		HW-1, HW-7, HW-9	141	--	12	615	15	7,848
08/26/20		HW-1, HW-7, HW-9	108	--	--	546	--	2,573
08/31/20		HW-1, HW-7, HW-9	97	--	--	490	--	1,873
09/11/20		HW-1, HW-7, HW-9	86	--	--	439	--	1,502
09/14/20		HW-1, HW-7, HW-9	362	--	--	398	--	3,815
09/24/20		HW-1, HW-7, HW-9	42	--	--	311	--	34
09/28/20		HW-1, HW-7, HW-9	115	--	--	471	--	1,783

Legend / Notes:

GRO = Gasoline range organics ppmv = Parts per million by volume OVA = Organic Vapor Analyzer -- = Readings not taken 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.



TABLE 9A
Historical Summary of Field Vapor Readings - Former Tank Farm Horizontal Wells
DFSP, Norwalk
15306 Norwalk Blvd., Norwalk, CA

Legend / Notes continued:

- 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).
- 17 = New Thermal Oxidizer system startup on 3/13/19.
- 18 = VES Carbon system shutdown on 4/18/19 to replace blower.
- 19 = HW-3 abandoned and replaced on 6/7/19 and 6/10/19 and replaced with new horizontal wells HW-8 and HW-9. Nw HW's connected to VES Carbon system on 7/16/19.
- 20 = VES Carbon system restart on 11/21/19 after new blower installation.
- 19 = HW-3 abandoned and replaced on 6/7/19 and 6/10/19 and replaced with new horizontal wells HW-8 and HW-9.
- 21 = Closed off trunklines 8 and 5 due to low PID readings. Trunklines 7 and 9 opened 100%
- * = 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 9C
Historical Summary of Field Vapor Readings - Eastern 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																							
			Truckline #1, VECV #1					Truckline #1, VECV #2					Truckline #1, VECV #3					Truckline #1, VECV #4				Truckline #1, VECV #5				
			RW-1 15 - 35	RW-6 17 - 37	RW-15 18 - 38	RW-16 14 - 34	RW-17 19 - 39	VEW-32 10 - 25	VEW-37 10 - 25	RW-2 13 - 33	RW-7 17 - 37	RW-11 16 - 36	VEW-33 10 - 25	VEW-36 10 - 25	RW-8 18.5 - 38.5	RW-12 14 - 34	RW-18 18 - 38	VEW-34 10 - 25	VEW-35 10 - 25	RW-13 15 - 35	RW-14 14 - 34	RW-3 17 - 37	RW-4 14 - 34	RW-5 14 - 34	RW-9 15 - 35	RW-10 14 - 34
07/09/14	1	VEW-32, VEW-33, VEW-34, VEW-35, VEW-36, VEW-37, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	154	20	--	--	10	6.4	--	--	4.2	5.5	--	--	--	--	--	--	--	--	
07/18/14		VEW-32, VEW-33, VEW-34, VEW-35, VEW-36, VEW-37, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	134	18	--	--	5.6	4.1	--	--	3.3	2.1	--	--	--	--	--	--	--	--	
08/27/14	2	VEW-32, VEW-33, VEW-34, VEW-35, VEW-36, VEW-37, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	6.3	0	--	--	0.4	0	--	--	0.4	0.2	--	--	--	--	--	--	--	--	
08/27/14	3	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	174	--	--	--	0.2	--	--	--	0	--	--	--	--	--	--	--	--	--	
10/23/14	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	191	151	--	--	22	9.1	--	--	8.0	28	--	--	--	--	--	--	--	--	
12/17/14	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	62	11	--	--	37	24	--	--	2.0	15	--	--	--	--	--	--	--	--	
03/30/15	4,5	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	2.5	1.0	--	--	0.1	20	--	--	0.3	4.8	--	--	--	--	--	--	--	--	
04/02/15	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	25	0	--	--	4.1	0	--	--	0	0	--	--	--	--	--	--	--	--	
04/06/15	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	171	0	--	--	5.7	0	--	--	3.0	0	--	--	--	--	--	--	--	--	
04/08/15	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	195	0	--	--	35	0	--	--	25	0	--	--	--	--	--	--	--	--	
04/15/15	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	273	0	--	--	223	0	--	--	87	0	--	--	--	--	--	--	--	--	
04/24/15	6	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
04/27/15	4.6	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	210	2.4	--	--	324	5.7	--	--	115	4.8	--	--	--	--	--	--	--	--	
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	--	--	--	--	--	456	3.9	--	--	334	2.2	--	--	63	16	--	--	--	--	--	--	--	--	
08/20/15	6,9	VEW-32, VEW-33, HW-1, HW-3, HW-5	--	--	--	--	--	530	--	--	--	329	--	--	--	--	--	--	--	--	--	--	--	--	--	
09/08/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	--	--	--	--	--	395	--	--	--	162	--	--	--	--	--	--	--	--	--	--	--	--	--	
09/16/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	--	--	--	--	--	266	--	--	--	184	--	--	--	--	--	--	--	--	--	--	--	--	--	
10/09/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	--	--	--	--	--	343	--	--	--	258	--	--	--	--	--	--	--	--	--	--	--	--	--	
11/04/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	--	--	--	--	--	401	--	--	--	184	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/07/15	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	--	--	--	--	--	327	14	--	--	246	12	--	--	88	22	--	--	--	--	--	--	--	--	
01/13/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	--	--	--	--	--	220	17	--	--	260	22	--	--	72	34	--	--	--	--	--	--	--	--	
02/08/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	--	--	--	--	--	160	11	--	--	220	28	--	--	55	42	--	--	--	--	--	--	--	--	
03/02/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	--	--	--	--	--	120	15	--	--	240	32	--	--	47	31	--	--	--	--	--	--	--	--	
04/06/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	--	--	--	--	--	60	12	--	--	380	18	--	--	29	22	--	--	--	--	--	--	--	--	
05/04/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	--	--	--	--	--	90	19	--	--	340	25	--	--	36	18	--	--	--	--	--	--	--	--	
06/17/16	6	HW-1, HW-3, HW-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

TABLE 9C
Historical Summary of Field Vapor Readings - Eastern 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																							
			Truckline #1, VECV #1					Truckline #1, VECV #2					Truckline #1, VECV #3					Truckline #1, VECV #4				Truckline #1, VECV #5				
			RW-1 15 - 35	RW-6 17 - 37	RW-15 18 - 38	RW-16 14 - 34	RW-17 19 - 39	VEW-32 10 - 25	VEW-37 10 - 25	RW-2 13 - 33	RW-7 17 - 37	RW-11 16 - 36	VEW-33 10 - 25	VEW-36 10 - 25	RW-8 18.5 - 38.5	RW-12 14 - 34	RW-18 18 - 38	VEW-34 10 - 25	VEW-35 10 - 25	RW-13 15 - 35	RW-14 14 - 34	RW-3 17 - 37	RW-4 14 - 34	RW-5 14 - 34	RW-9 15 - 35	RW-10 14 - 34
07/06/16	6,10	HW-1, HW-3, HW-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
08/05/16	6	HW-1, HW-3, HW-5	--	--	--	--	--	20	8.3	--	--	140	34	--	--	11	9.0	--	--	--	--	--	--	--	--	
09/01/16	6,10	HW-1, HW-3, HW-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
10/20/16	4,6,10,11	HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	32	6.4	--	--	80	30	--	--	9.1	7.3	--	--	--	--	--	--	--	--	
11/01/16	6,10	HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/05/16	4,6,10	HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	20	7.1	--	--	60	20	--	--	17	8.8	--	--	--	--	--	--	--	--	
01/09/17	6,10	HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
02/06/17	4,6,10	HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	12	5.4	--	--	45	14	--	--	11	6.1	--	--	--	--	--	--	--	--	
03/20/17	12	HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
04/17/17		HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
05/03/17		HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	15	6.7	--	--	33	19	--	--	17	8.1	--	--	--	--	--	--	--	--	
06/05/17		HW-1, HW-3, HW-5	--	--	--	--	--	10	11	--	--	14	12	--	--	8.0	7.1	--	--	--	--	--	--	--	--	
07/19/17	13	HW-5, HW-7 and VEW-39	--	--	--	--	--	12	4.8	--	--	47	6.2	--	--	9.3	4.1	--	--	--	--	--	--	--	--	
08/09/17	1,2,3	HW-1, HW-5, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	1,268	--	--	--	--	5.5	5.4	16	120	--	27	3.7	--	76	374	7.7	2.3	2,440	--	--	--	1,164	--	
09/07/17	2,3	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	3,860	--	--	--	--	9.2	10	99	495	--	20	14	--	90	679	11	5.5	2,870	--	--	--	320	--	
10/12/17	2,3	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	2,480	--	--	--	--	13	12	75	310	--	28	19	--	120	580	14	9.3	2,620	--	--	--	660	--	
11/02/17	2,2	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	3,140	--	--	--	--	10	9.1	50	225	--	23	15	--	140	430	11	6.6	3,200	--	--	--	840	--	
12/11/17	2,3	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	2,250	--	--	--	--	7.7	9.1	60	180	--	20	8.8	--	80	350	9.3	5.1	3,040	--	--	--	590	--	
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	15	12	40	28	7.2	4.3	31	181	420	2.4	0.4	5.1	5.5	937	8.1	7.3	2,000	1,235	68	598	4,600	2,824	>10,000
06/27/19			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	401	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/29/18	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	--	--	--	--	--	--	--	475	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/03/18	4,5	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	--	--	--	--	--	--	--	--	--	641	--	--	--	952	--	--	8,157	--	--	>15,000	>15,000	>15,000	>15,000	--
03/12/19	3,6	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	190	0	0	16	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03/27/19	3,6	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	838	0	--	--	--	--	--	402	--	1,172	--	--	--	992	--	--	13,772	--	--	1,021	1,850	6,280	2,150	--
06/05/19	3	RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	574	--	--	--	--	--	--	--	--	10	--	--	--	420	--	--	3,420	--	--	776	1,083	4,210	1,143	--
07/23/19	3	(RW-1), (RW-11), (RW-18), (RW-13), (RW-4), RW-5, RW-9, RW-10	643	--	--	--	--	--	--	--	--	6	--	--	--	130	--	--	724.0	--	--	851	805	2,750	1,238	--
08/26/19	3,7	(RW-1), (RW-18), (RW-13), (RW-4), RW-5, RW-9, RW-10	678	2	3	19	3	--	--	33	52	5	--	40.0	37	7	7	13.0	7.0	1,520	1,380	522	430	512	1,455	502



TABLE 9C
Historical Summary of Field Vapor Readings - Eastern 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																							
			Truckline #1, VECV #1					Truckline #1, VECV #2					Truckline #1, VECV #3					Truckline #1, VECV #4				Truckline #1, VECV #5				
			RW-1 15 - 35	RW-6 17 - 37	RW-15 18 - 38	RW-16 14 - 34	RW-17 19 - 39	VEW-32 10 - 25	VEW-37 10 - 25	RW-2 13 - 33	RW-7 17 - 37	RW-11 16 - 36	VEW-33 10 - 25	VEW-36 10 - 25	RW-8 18.5 - 38.5	RW-12 14 - 34	RW-18 18 - 38	VEW-34 10 - 25	VEW-35 10 - 25	RW-13 15 - 35	RW-14 14 - 34	RW-3 17 - 37	RW-4 14 - 34	RW-5 14 - 34	RW-9 15 - 35	RW-10 14 - 34
09/23/19	3	(RW-1), (RW-18), (RW-13), (RW-4, RW-5, RW-9, RW-10)	682	--	--	--	--	--	--	--	--	--	--	--	--	--	--	177	258	306	179	145	679	637		
12/03/19	3	(RW-1), (RW-13, RW-14), (RW-4, RW-5, RW-9, RW-10)	4	2	2	--	--	2	434	--	--	--	--	--	--	10	6	226	124	--	28	--	116	146		
01/08/20	3	(RW-1), (RW-7), (RW-13, RW-14), (RW-4, RW-9, RW-10)	1,050	--	--	--	--	--	466	--	--	--	--	--	--	--	--	630	184	--	360	--	1,720	900		
03/02/20	3, 7	(RW-1), (RW-2, RW-7), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10)	1,156	--	--	--	--	2	1,370	262	--	--	2	1,024	2	14	2	2	88	128	46	202	8	836	746	
04/30/20		(RW-1), (RW-2, RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10)	694	--	--	--	--	--	10	84	--	--	--	514	--	--	--	110	164	148	188	--	2,158	710		
05/21/20		(RW-1), (RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10)	794	--	--	--	--	--	--	56	--	--	--	245	--	--	--	135	98	108	164	--	1,530	620		
09/29/20	7	(RW-1), (RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10)	704	8	4	--	--	--	--	10	--	--	--	38	--	2	4	2	102	--	62	112	--	780	350	

Legend / Notes:

GRO = Gasoline range organics ppmv = Parts per million by volume OVA = Organic Vapor Analyzer -- = Readings not taken 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, 9B 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*.

6 = New Thermal Oxidizer system startup on 3/13/19.

7 = Closed wells were opened to check for rebound concentrations.

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

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	8015 & 8260B	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
	02/12/19			1,845	810	3,300	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	11/25/19			730	200	820	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	02/18/20			139	24	98	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	05/15/20			199	24	100	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
08/24/20		141	12	50	<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	8015 & 8260B	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
	02/12/19			696	270	1,100	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	11/25/19			501	170	710	0.56	1.8	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	02/18/20			4	<4.9	<20	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
05/15/20		8	<4.9	<20	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0		
08/24/20		12	<4.9	<20	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<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



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-7 *	01/18/17	2	8015 & 8260B	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
	02/12/19			696	240	1,000	2.30	7.2	0.88	3.30	0.14	0.60	0	1	0	2	<0.55	<2.0
	11/25/19			730	240	1,000	0.53	1.7	0.42	1.60	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	02/18/20			149	16	64	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	05/15/20			697	190	760	0.81	2.6	0.69	2.6	<0.12	<0.50	0.12	0.54	0.28	1.2	<0.55	<2.0
08/24/20	615	130	540	0.88	2.8	0.45	1.70	<0.12	<0.50	<0.12	<0.50	0.28	1.2	<0.55	<2.0			
HW-8	11/25/19	8	8015 & 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/18/20			3	<4.9	<20	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	05/15/20			7	<4.9	<20	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	08/24/20			15	<4.9	<20	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
HW-9	11/25/19	8	8015 & 8260B	1,820	390	1,600	<0.16	<0.5	<0.13	<0.50	0.25	1.1	0.35	1.50	0.94	4.10	<0.55	<2.0
	02/18/20			530	320	1,300	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	05/15/20			1,058	510	2,100	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	08/24/20			7,848	560	2,300	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
VEW-32	07/09/14	1	8015 & 8260B	154	132	540	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0
	10/23/14			191	19	76	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0
	04/27/15			210	320	1,300	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	08/10/15			456	460	1,900	0.66	2.1	<0.13	<0.50	0.23	1.0	<0.12	<0.50	0.46	2.0	<0.55	<2.0
	02/08/16			160	130	550	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	04/06/16			60	17	68	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/17			9.0	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
VEW-33	07/09/14	1	8015 & 8260B	10	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0
	10/23/14			22	6.6	27	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<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	8015 & 8260B	4.2	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0
	10/23/14			8.0	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<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	8015 & 8260B	5.5	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0
	10/23/14			28	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<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	8015 & 8260B	6.4	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0
	10/23/14			9.1	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<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-36	04/27/15		8015 & 8260B	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	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0
	10/23/14			151	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<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
	06/27/18	4		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
VEW-39	06/27/17	3		130	37	150	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	07/27/17			--	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
	09/07/17			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
VEW-40	06/27/17	3		3,018	2,700	11,000	0.28	0.88	<0.13	<0.50	0.99	4.3	<0.12	<0.50	0.81	3.5	<0.55	<2.0
	07/27/17			--	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
	09/07/17			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
	06/27/18	4		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
RW-1	08/09/17	5		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	



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-20	09/07/17	4	8015 & 8260B	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	4		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			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	4		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	4		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			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	4		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			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
RW-27	06/27/18	4		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	4		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			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	4		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			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	4		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			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	4		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			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	4		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			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	4		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			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	

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-44	06/27/18	4	8015 & 8260B	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.

-- = Not measured

- Reported concentrations are shown in bold.

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*.

8 = HW-3 abandoned and replaced on 6/7/19 and 6/10/19 and replaced with new horizontal wells HW-8 and HW-9. Nw HW's connected to VES Carbon system on 7/16/19.

* = 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 11A
Biosparge System Operations Summary - July
 DFSP Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	Cumulative Blower Runtime (hours)	Blower Discharge Pressure (psig)	Blower Discharge Temperature (°F)	HE Outlet Temperature (°F)	Main Header Pressure (psig)	Sparge Total Flow-dP (in WC)	Sparge Total Pressure (psig)	Sparge Total Temperature (°F)
07/01/20	Technician	1	8759.0	--	--	--	--	--	--	--
07/02/20	Off		8759.0	--	--	--	--	--	--	--
07/03/20	Off		8759.0	--	--	--	--	--	--	--
07/04/20	Off		8759.0	--	--	--	--	--	--	--
07/05/20	Off		8759.0	--	--	--	--	--	--	--
07/06/20	Technician	2	8759.6	9	235	106	9	5.5	8	105
07/07/20	*		8774.3	--	--	--	--	5.5	--	--
07/08/20	*		8789.1	--	--	--	--	5.5	--	--
07/09/20	*		8803.8	--	--	--	--	5.5	--	--
07/10/20	Technician	1	8818.5	--	--	--	--	5.5	--	--
07/11/20	Off		8818.5	--	--	--	--	--	--	--
07/12/20	Off		8818.5	--	--	--	--	--	--	--
07/13/20	Technician	2	8848.0	--	--	--	--	--	--	--
07/14/20	Technician		8877.4	9	220	100	6	6.9	6	96
07/15/20	*		8893.3	--	--	--	--	6.9	--	--
07/16/20	*		8909.2	--	--	--	--	6.9	--	--
07/17/20	Technician	1	8925.0	--	--	--	--	6.9	--	--
07/18/20	Off		8925.0	--	--	--	--	--	--	--
07/19/20	Off		8925.0	--	--	--	--	--	--	--
07/20/20	Off		8925.0	--	--	--	--	--	--	--
07/21/20	Off		8925.0	--	--	--	--	--	--	--
07/22/20	Off		8925.0	--	--	--	--	--	--	--
07/23/20	Technician	2	8960.6	--	--	--	--	--	--	--
07/24/20	*		8983.9	--	--	--	--	--	--	--
07/25/20	*		9007.3	--	--	--	--	--	--	--
07/26/20	*		9030.6	--	--	--	--	--	--	--
07/27/20	*		9054.0	--	--	--	--	--	--	--
07/28/20	*		9077.3	--	--	--	--	--	--	--
07/29/20	*		9100.6	--	--	--	--	--	--	--
07/30/20	*		9124.0	--	--	--	--	--	--	--
07/31/20	Technician	1,2	9147.3	9	225	108	7	6.3	7	105

Legend / Notes:

System operating under SCAQMD Various Locations Permit #G52288

1 = VES manually shut down for maintenance.

2 = VES restarted following completion of maintenance work.

Biosparge wells on line this month (grouped by location):

Central Area - (TFB-15, -16, 17, -18, -19, -22, -25), (TFB-20, -23, -24, -30, -33), (TFB-29, -32, -35, -36, -37, -38), (TFB-7, -9, -10, -11, -12, -13, -14), (TFB-21, -26, -27, -28, -31, -34), (BSP-25, -26, -28, -29, -30), (BSP-21, -22, -23, -24, -27), (TFB-1, -2, -4, -5, -6, -8). **Eastern Area** - (RW-1, -6, -15, -16, -17), (BSP-10, -11, RW-2, -7, -11), (BSP-12, -13, RW-3, -8, -12, -18), (BSP-14, RW-4, -5, -9, -10, -13, -14); **Southern Area** - (BSP-19, -20, RW-21, -23, -26), (BSP-17, -18, RW-30, -31, -32, -34), (BSP-15, -16, RW-19, -20, -25, -28), (RW-22, -24, -27, -29, -33, -43), (RW-35, -38, -39, -40), (RW-36, -37, -41, -42, -46), (RW-47, -48, -49, -50).

psig = pounds per square inch

in. WC = inches of water column

°F = Degrees Fahrenheit

NA = Not available

HE = Heat Exchanger

-- = Not applicable or not measured

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



TABLE 11B
Biosparge System Operations Summary - August
 DFSP Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	Cumulative Blower Runtime (hours)	Blower Discharge Pressure (psig)	Blower Discharge Temperature (°F)	HE Outlet Temperature (°F)	Main Header Pressure (psig)	Sparge Total Flow (in WC)	Sparge Total Pressure (psig)	Sparge Total Temperature (°F)
08/01/20	*		9171.0	--	--	--	--	--	--	--
08/02/20	*		9194.6	--	--	--	--	--	--	--
08/03/20	*		9218.3	--	--	--	--	--	--	--
08/04/20	*		9242.0	--	--	--	--	--	--	--
08/05/20	*		9265.7	--	--	--	--	--	--	--
08/06/20	*		9289.3	--	--	--	--	--	--	--
08/07/20	Technician	1	9313.0	9	220	98	7	7.2	7.0	95
08/08/20	Off		9313.0	--	--	--	--	--	--	--
08/09/20	Off		9313.0	--	--	--	--	--	--	--
08/10/20	Off		9313.0	--	--	--	--	--	--	--
08/11/20	Off		9313.0	--	--	--	--	--	--	--
08/12/20	Off		9313.0	--	--	--	--	--	--	--
08/13/20	Off		9313.0	--	--	--	--	--	--	--
08/14/20	Off		9313.0	--	--	--	--	--	--	--
08/15/20	Off		9313.0	--	--	--	--	--	--	--
08/16/20	Off		9313.0	--	--	--	--	--	--	--
08/17/20	Off		9313.0	--	--	--	--	--	--	--
08/18/20	Off		9313.0	--	--	--	--	--	--	--
08/19/20	Off		9313.0	--	--	--	--	--	--	--
08/20/20	Off		9313.0	--	--	--	--	--	--	--
08/21/20	Off		9313.0	--	--	--	--	--	--	--
08/22/20	Off		9313.0	--	--	--	--	--	--	--
08/23/20	Off		9313.0	--	--	--	--	--	--	--
08/24/20	Off		9313.0	--	--	--	--	--	--	--
08/25/20	Off		9313.0	--	--	--	--	--	--	--
08/26/20	Off		9313.0	--	--	--	--	--	--	--
08/27/20	Off		9313.0	--	--	--	--	--	--	--
08/28/20	Off		9313.0	--	--	--	--	--	--	--
08/29/20	Off		9313.0	--	--	--	--	--	--	--
08/30/20	Off		9313.0	--	--	--	--	--	--	--
08/31/20	Off		9313.0	--	--	--	--	--	--	--

Legend / Notes:

System operating under SCAQMD Various Locations Permit #G52288

1 = VES manually shut down for maintenance.

Biosparge wells on line this month (grouped by location):

Central Area - (TFB-15, -16, 17, -18, -19, -22, -25), (TFB-20, -23, -24, -30, -33), (TFB-29, -32, -35, -36, -37, -38), (TFB-7, -9, -10, -11, -12, -13, -14), (TFB-21, -26, -27, -28, -31, -34), (BSP-25, -26, -28, -29, -30), (BSP-21, -22, -23, -24, -27), (TFB-1, -2, -4, -5, -6, -8). Eastern Area- (RW-1, -6, -15, -16, -17), (BSP-10, -11, RW-2, -7, -11), (BSP-12, -13, RW-3, -8, -12, -18), (BSP-14, RW-4, -5, -9, -10, -13, -14); Southern Area - (BSP-19, -20, RW-21, -23, -26), (BSP-17, -18, RW-30, -31, -32, -34), (BSP-15, -16, RW-19, -20, -25, -28), (RW-22, -24, -27, -29, -33, -43), (RW-35, -38, -39, -40), (RW-36, -37, -41, -42, -46), (RW-47, -48, -49, -50).

psig = pounds per square inch

in. WC = inches of water column

°F = Degrees Fahrenheit

NA = Not available

HE = Heat Exchanger

-- = Not applicable or not measured

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



TABLE 11C
Biosparge System Operations Summary - September
 DFSP Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	Cumulative Blower Runtime (hours)	Blower Discharge Pressure (psig)	Blower Discharge Temperature (°F)	HE Outlet Temperature (°F)	Main Header Pressure (psig)	Sparge Total Flow (in WC)	Sparge Total Pressure (psig)	Sparge Total Temperature (°F)
09/01/20	Off		9313.0	--	--	--	--	--	--	--
09/02/20	Off		9313.0	--	--	--	--	--	--	--
09/03/20	Off		9313.0	--	--	--	--	--	--	--
09/04/20	Off		9313.0	--	--	--	--	--	--	--
09/05/20	Off		9313.0	--	--	--	--	--	--	--
09/06/20	Off		9313.0	--	--	--	--	--	--	--
09/07/20	Off		9313.0	--	--	--	--	--	--	--
09/08/20	Off		9313.0	--	--	--	--	--	--	--
09/09/20	Off		9313.0	--	--	--	--	--	--	--
09/10/20	Off		9313.0	--	--	--	--	--	--	--
09/11/20	Technician	1	9322.7	7	240	116	7	6.5	--	110
09/12/20	*		9345.9	--	--	--	--	6.5	--	--
09/13/20	*		9369.0	--	--	--	--	6.5	--	--
09/14/20	*		9392.2	--	--	--	--	6.5	--	--
09/15/20	*		9415.3	--	--	--	--	6.5	--	--
09/16/20	*		9438.5	--	--	--	--	6.5	--	--
09/17/20	*		9461.6	--	--	--	--	6.5	--	--
09/18/20	Technician		9484.8	9	225	120	8	6.0	6	104
09/19/20	*		9508.9	--	--	--	--	6.0	--	--
09/20/20	*		9533.1	--	--	--	--	6.0	--	--
09/21/20	*		9557.2	--	--	--	--	6.0	--	--
09/22/20	*		9581.3	--	--	--	--	6.0	--	--
09/23/20	*		9605.5	--	--	--	--	6.0	--	--
09/24/20	Technician		9629.6	8	375	99	6	5.0	7.0	95
09/25/20	*		9653.5	--	--	--	--	5.0	--	--
09/26/20	*		9677.4	--	--	--	--	5.0	--	--
09/27/20	*		9701.3	--	--	--	--	5.0	--	--
09/28/20	*		9725.2	--	--	--	--	5.0	--	--
09/29/20	Technician		9749.1	8	390	106	7	7.8	6.0	104
09/30/20	*		9773.1	--	--	--	--	7.8	--	--

Legend / Notes:

System operating under SCAQMD Various Locations Permit #G52288

1 = VES restarted following completion of maintenance work.

Biosparge wells on line this month (grouped by location):

Central Area - (TFB-15, -16, 17, -18, -19, -22, -25), (TFB-20, -23, -24, -30, -33), (TFB-29, -32, -35, -36, -37, -38), (TFB-7, -9, -10, -11, -12, -13, -14), (TFB-21, -26, -27, -28, -31, -34), (BSP-25, -26, -28, -29, -30), (BSP-21, -22, -23, -24, -27), (TFB-1, -2, -4, -5, -6, -8). **Eastern Area** - (RW-1, -6, -15, -16, -17), (BSP-10, -11, RW-2, -7, -11), (BSP-12, -13, RW-3, -8, -12, -18), (BSP-14, RW-4, -5, -9, -10, -13, -14); **Southern Area** - (BSP-19, -20, RW-21, -23, -26), (BSP-17, -18, RW-30, -31, -32, -34), (BSP-15, -16, RW-19, -20, -25, -28), (RW-22, -24, -27, -29, -33, -43), (RW-35, -38, -39, -40), (RW-36, -37, -41, -42, -46), (RW-47, -48, -49, -50).

psig = pounds per square inch

in. WC = inches of water column

°F = Degrees Fahrenheit

NA = Not available

HE = Heat Exchanger

-- = Not applicable or not measured

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



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 24, 2020

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5333658 / OG20012**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 07/20/20 14:00 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', 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: A5333658
Date Received: 07/20/20
Date Reported: 07/24/20

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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GRO in Vapor as Hexane

VES Influent	0G20012-01	Vapor	5	07/20/20 10:37	07/20/20 14:00
VES Effluent	0G20012-02	Vapor	5	07/20/20 10:30	07/20/20 14:00

VOCs BTEX/MTBE Vapor GC/MS

VES Influent	0G20012-01	Vapor	5	07/20/20 10:37	07/20/20 14:00
VES Effluent	0G20012-02	Vapor	5	07/20/20 10:30	07/20/20 14:00

VOCs Gasoline Range Organics Vapor

VES Influent	0G20012-01	Vapor	5	07/20/20 10:37	07/20/20 14:00
VES Effluent	0G20012-02	Vapor	5	07/20/20 10:30	07/20/20 14:00

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: A5333658
Date Received: 07/20/20
Date Reported: 07/24/20
Sampled: 07/20/20
Prepared: 07/20/20
Analyzed: 07/20/20

VES Influent

0G20012-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	0.60	ug/L	0.50	0.19	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	0.59	ug/L	0.50	0.16	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	94.3 %	70-140
Dibromofluoromethane	100 %	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: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5333658
Date Received: 07/20/20
Date Reported: 07/24/20
Sampled: 07/20/20
Prepared: 07/20/20
Analyzed: 07/20/20

VES Effluent

0G20012-02 (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	94.9 %	70-140
Dibromofluoromethane	102 %	70-140
Toluene-d8	98.0 %	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: A5333658
Date Received: 07/20/20
Date Reported: 07/24/20
Sampled: 07/20/20
Prepared: 07/21/20
Analyzed: 07/21/20

VES Influent

0G20012-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	400	ug/L	20	98	ppmv	4.9
Surrogates		%REC				%REC Limits
a,a,a-Trifluorotoluene		100 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333658
Date Received: 07/20/20
Date Reported: 07/24/20
Sampled: 07/20/20
Prepared: 07/21/20
Analyzed: 07/21/20

VES Effluent

0G20012-02 (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		76.6 %			70-130	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333658
Date Received: 07/20/20
Date Reported: 07/24/20
Units: ppmv

Date Sampled:	07/20/20	07/20/20	
Date Prepared:	07/21/20	07/21/20	
Date Analyzed:	07/21/20	07/21/20	
AA ID No:	0G20012-01	0G20012-02	
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	79	<5.7	5.7
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333658
Date Received: 07/20/20
Date Reported: 07/24/20

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control									
<i>Batch B0G2020 - *** DEFAULT PREP ***</i>									
Blank (B0G2020-BLK1)					Prepared & Analyzed: 07/20/20				
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>47.4</i>		<i>ug/L</i>	<i>50</i>		<i>94.7</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>49.4</i>		<i>ug/L</i>	<i>50</i>		<i>98.7</i>	<i>70-140</i>		
LCS (B0G2020-BS1)					Prepared & Analyzed: 07/20/20				
Benzene	17.7	0.50	ug/L	20		88.6	75-125		
Ethylbenzene	21.8	0.50	ug/L	20		109	75-125		
Methyl-tert-Butyl Ether (MTBE)	34.0	2.0	ug/L	40		85.1	75-125		
Toluene	21.2	0.50	ug/L	20		106	75-125		
o-Xylene	21.6	0.50	ug/L	20		108	75-125		
m,p-Xylenes	44.5	1.0	ug/L	40		111	75-125		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>47.9</i>		<i>ug/L</i>	<i>50</i>		<i>95.8</i>	<i>70-140</i>		
<i>Surrogate: Dibromofluoromethane</i>	<i>45.6</i>		<i>ug/L</i>	<i>50</i>		<i>91.2</i>	<i>70-140</i>		
<i>Surrogate: Toluene-d8</i>	<i>49.9</i>		<i>ug/L</i>	<i>50</i>		<i>99.7</i>	<i>70-140</i>		
LCS Dup (B0G2020-BSD1)					Prepared: 07/20/20 Analyzed: 07/21/20				
Benzene	17.8	0.50	ug/L	20		88.8	75-125	0.338	30
Ethylbenzene	21.9	0.50	ug/L	20		109	75-125	0.413	30
Methyl-tert-Butyl Ether (MTBE)	32.6	2.0	ug/L	40		81.6	75-125	4.29	30
Toluene	21.6	0.50	ug/L	20		108	75-125	1.59	30
o-Xylene	22.3	0.50	ug/L	20		112	75-125	3.51	30
m,p-Xylenes	45.4	1.0	ug/L	40		114	75-125	1.96	30
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>47.4</i>		<i>ug/L</i>	<i>50</i>		<i>94.8</i>	<i>70-140</i>		
<i>Surrogate: Dibromofluoromethane</i>	<i>45.5</i>		<i>ug/L</i>	<i>50</i>		<i>91.0</i>	<i>70-140</i>		
<i>Surrogate: Toluene-d8</i>	<i>49.9</i>		<i>ug/L</i>	<i>50</i>		<i>99.7</i>	<i>70-140</i>		
Duplicate (B0G2020-DUP1)					Source: 0G20011-05 Prepared & Analyzed: 07/20/20				

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: A5333658
Date Received: 07/20/20
Date Reported: 07/24/20

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

Batch B0G2020 - *** DEFAULT PREP ***

Duplicate (B0G2020-DUP1) Continued Source: 0G20011-05 Prepared & Analyzed: 07/20/20

Benzene	0.540	0.50	ug/L		0.560			3.64	30	
Ethylbenzene	<0.50	0.50	ug/L		0.560			26.3	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		0.380				30	
m,p-Xylenes	<1.0	1.0	ug/L		0.830				30	
Surrogate: 4-Bromofluorobenzene	45.3		ug/L	50		90.6	70-140			
Surrogate: Dibromofluoromethane	49.2		ug/L	50		98.5	70-140			
Surrogate: Toluene-d8	51.9		ug/L	50		104	70-140			

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

Batch B0G2116 - *** DEFAULT PREP ***

Blank (B0G2116-BLK1) Prepared & Analyzed: 07/21/20

Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	44.1		ug/L	50		88.2	70-130			

LCS (B0G2116-BS1) Prepared & Analyzed: 07/21/20

Gasoline Range Organics (GRO)	447	20	ug/L	500		89.4	75-125			
Surrogate: a,a,a-Trifluorotoluene	52.1		ug/L	50		104	70-130			

LCS Dup (B0G2116-BSD1) Prepared & Analyzed: 07/21/20

Gasoline Range Organics (GRO)	436	20	ug/L	500		87.2	75-125	2.56	30	
Surrogate: a,a,a-Trifluorotoluene	50.0		ug/L	50		100	70-130			

Duplicate (B0G2116-DUP1) Source: 0G20011-02 Prepared & Analyzed: 07/21/20

Gasoline Range Organics (GRO)	988	20	ug/L		1240			22.7	30	
Surrogate: a,a,a-Trifluorotoluene	49.9		ug/L	50		99.8	70-130			

GRO in Vapor as Hexane - Quality Control

Batch B0G2116 - *** DEFAULT PREP ***

Blank (B0G2116-BLK1) Prepared & Analyzed: 07/21/20

GRO as Hexane	<5.7	5.7	ppmv							
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Duplicate (B0G2116-DUP1) Source: 0G20011-02 Prepared & Analyzed: 07/21/20

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: A5333658
Date Received: 07/20/20
Date Reported: 07/24/20

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 B0G2116 - *** DEFAULT PREP ***</i>										
Duplicate (B0G2116-DUP1) Continued Source: 0G20011-02 Prepared & Analyzed: 07/21/20										
GRO as Hexane	191	5.7	ppmv		239			22.7	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: A5333658
Date Received: 07/20/20
Date Reported: 07/24/20

Special Notes

A handwritten signature in black ink, appearing to be 'VA' or similar, written over a horizontal line.

Viorel Vasile
Operations Manager



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

July 24, 2020

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5333659 / OG20013**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 07/20/20 14:00 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 VES AQMD

AA Project No: A5333659
Date Received: 07/20/20
Date Reported: 07/24/20

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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GRO in Vapor as Hexane

VES After GAC-1	0G20013-01	Vapor	5	07/20/20 10:36	07/20/20 14:00
VES After GAC-2	0G20013-02	Vapor	5	07/20/20 10:35	07/20/20 14:00

VOCs BTEX/MTBE Vapor GC/MS

VES After GAC-1	0G20013-01	Vapor	5	07/20/20 10:36	07/20/20 14:00
VES After GAC-2	0G20013-02	Vapor	5	07/20/20 10:35	07/20/20 14:00

VOCs Gasoline Range Organics Vapor

VES After GAC-1	0G20013-01	Vapor	5	07/20/20 10:36	07/20/20 14:00
VES After GAC-2	0G20013-02	Vapor	5	07/20/20 10:35	07/20/20 14:00

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: A5333659
Date Received: 07/20/20
Date Reported: 07/24/20
Sampled: 07/20/20
Prepared: 07/20/20
Analyzed: 07/20/20

VES After GAC-1
0G20013-01 (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	97.0 %	70-140
Dibromofluoromethane	102 %	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: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5333659
Date Received: 07/20/20
Date Reported: 07/24/20
Sampled: 07/20/20
Prepared: 07/20/20
Analyzed: 07/20/20

VES After GAC-2
0G20013-02 (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	95.0 %	70-140
Dibromofluoromethane	101 %	70-140
Toluene-d8	99.9 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333659
Date Received: 07/20/20
Date Reported: 07/24/20
Sampled: 07/20/20
Prepared: 07/22/20
Analyzed: 07/22/20

VES After GAC-1

0G20013-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
Surrogates		%REC				%REC Limits
a,a,a-Trifluorotoluene		92.4 %				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: A5333659
Date Received: 07/20/20
Date Reported: 07/24/20
Sampled: 07/20/20
Prepared: 07/22/20
Analyzed: 07/22/20

VES After GAC-2

0G20013-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
Surrogates		%REC				%REC Limits
a,a,a-Trifluorotoluene		88.1 %				70-130

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333659
Date Received: 07/20/20
Date Reported: 07/24/20
Units: ppmv

Date Sampled:	07/20/20	07/20/20	
Date Prepared:	07/22/20	07/22/20	
Date Analyzed:	07/22/20	07/22/20	
AA ID No:	0G20013-01	0G20013-02	
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	<5.7	<5.7	5.7
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333659
Date Received: 07/20/20
Date Reported: 07/24/20

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 B0G2020 - *** DEFAULT PREP ***</i>										
Blank (B0G2020-BLK1)				Prepared & Analyzed: 07/20/20						
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>47.4</i>		<i>ug/L</i>	<i>50</i>		<i>94.7</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>49.4</i>		<i>ug/L</i>	<i>50</i>		<i>98.7</i>	<i>70-140</i>			
LCS (B0G2020-BS1)				Prepared & Analyzed: 07/20/20						
Benzene	17.7	0.50	ug/L	20		88.6	75-125			
Ethylbenzene	21.8	0.50	ug/L	20		109	75-125			
Methyl-tert-Butyl Ether (MTBE)	34.0	2.0	ug/L	40		85.1	75-125			
Toluene	21.2	0.50	ug/L	20		106	75-125			
o-Xylene	21.6	0.50	ug/L	20		108	75-125			
m,p-Xylenes	44.5	1.0	ug/L	40		111	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>47.9</i>		<i>ug/L</i>	<i>50</i>		<i>95.8</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>45.6</i>		<i>ug/L</i>	<i>50</i>		<i>91.2</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>49.9</i>		<i>ug/L</i>	<i>50</i>		<i>99.7</i>	<i>70-140</i>			
LCS Dup (B0G2020-BSD1)				Prepared: 07/20/20 Analyzed: 07/21/20						
Benzene	17.8	0.50	ug/L	20		88.8	75-125	0.338	30	
Ethylbenzene	21.9	0.50	ug/L	20		109	75-125	0.413	30	
Methyl-tert-Butyl Ether (MTBE)	32.6	2.0	ug/L	40		81.6	75-125	4.29	30	
Toluene	21.6	0.50	ug/L	20		108	75-125	1.59	30	
o-Xylene	22.3	0.50	ug/L	20		112	75-125	3.51	30	
m,p-Xylenes	45.4	1.0	ug/L	40		114	75-125	1.96	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>47.4</i>		<i>ug/L</i>	<i>50</i>		<i>94.8</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>45.5</i>		<i>ug/L</i>	<i>50</i>		<i>91.0</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>49.9</i>		<i>ug/L</i>	<i>50</i>		<i>99.7</i>	<i>70-140</i>			
Duplicate (B0G2020-DUP1)				Source: 0G20011-05 Prepared & Analyzed: 07/20/20						

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: A5333659
Date Received: 07/20/20
Date Reported: 07/24/20

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 B0G2020 - *** DEFAULT PREP ***</i>										
Duplicate (B0G2020-DUP1) Continued Source: 0G20011-05 Prepared & Analyzed: 07/20/20										
Benzene	0.540	0.50	ug/L		0.560			3.64	30	
Ethylbenzene	<0.50	0.50	ug/L		0.560			26.3	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		0.380				30	
m,p-Xylenes	<1.0	1.0	ug/L		0.830				30	
<i>Surrogate: 4-Bromofluorobenzene</i>	45.3		ug/L	50		90.6	70-140			
<i>Surrogate: Dibromofluoromethane</i>	49.2		ug/L	50		98.5	70-140			
<i>Surrogate: Toluene-d8</i>	51.9		ug/L	50		104	70-140			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B0G2218 - *** DEFAULT PREP ***</i>										
Blank (B0G2218-BLK1) Prepared & Analyzed: 07/22/20										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	43.6		ug/L	50		87.1	70-130			
LCS (B0G2218-BS1) Prepared & Analyzed: 07/22/20										
Gasoline Range Organics (GRO)	498	20	ug/L	500		99.6	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	52.0		ug/L	50		104	70-130			
LCS Dup (B0G2218-BSD1) Prepared & Analyzed: 07/22/20										
Gasoline Range Organics (GRO)	478	20	ug/L	500		95.6	75-125	4.08	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	50.3		ug/L	50		101	70-130			
Duplicate (B0G2218-DUP1) Source: 0G20014-01 Prepared & Analyzed: 07/22/20										
Gasoline Range Organics (GRO)	3650	200	ug/L		3910			6.73	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	49.3		ug/L	50		98.6	70-130			
GRO in Vapor as Hexane - Quality Control										
<i>Batch B0G2218 - *** DEFAULT PREP ***</i>										
Blank (B0G2218-BLK1) Prepared & Analyzed: 07/22/20										
GRO as Hexane	<5.7	5.7	ppmv							
Duplicate (B0G2218-DUP1) Source: 0G20014-01 Prepared & Analyzed: 07/22/20										

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: A5333659
Date Received: 07/20/20
Date Reported: 07/24/20

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 B0G2218 - *** DEFAULT PREP ***</i>										
Duplicate (B0G2218-DUP1) Continued Source: 0G20014-01 Prepared & Analyzed: 07/22/20										
GRO as Hexane	712	57	ppmv		754			5.73	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: A5333659
Date Received: 07/20/20
Date Reported: 07/24/20

Special Notes

A handwritten signature in black ink, appearing to be 'VA' or similar, located below the 'Special Notes' section.

Viorel Vasile
Operations Manager



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

September 01, 2020

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5333705 / 0H24007**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 08/24/20 15:24 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', 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: A5333705
Date Received: 08/24/20
Date Reported: 09/01/20

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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GRO in Vapor as Hexane

VES Influent	0H24007-01	Vapor	5	08/24/20 09:20	08/24/20 15:24
VES Effluent	0H24007-02	Vapor	5	08/24/20 09:15	08/24/20 15:24

VOCs BTEX/MTBE Vapor GC/MS

VES Influent	0H24007-01	Vapor	5	08/24/20 09:20	08/24/20 15:24
VES Effluent	0H24007-02	Vapor	5	08/24/20 09:15	08/24/20 15:24

VOCs Gasoline Range Organics Vapor

VES Influent	0H24007-01	Vapor	5	08/24/20 09:20	08/24/20 15:24
VES Effluent	0H24007-02	Vapor	5	08/24/20 09:15	08/24/20 15:24

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: A5333705
Date Received: 08/24/20
Date Reported: 09/01/20
Sampled: 08/24/20
Prepared: 08/25/20
Analyzed: 08/25/20

VES Influent

0H24007-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	0.53	ug/L	0.50	0.17	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	86.5 %	70-140
Dibromofluoromethane	86.1 %	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: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5333705
Date Received: 08/24/20
Date Reported: 09/01/20
Sampled: 08/24/20
Prepared: 08/25/20
Analyzed: 08/25/20

VES Effluent

0H24007-02 (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	86.3 %	70-140
Dibromofluoromethane	86.3 %	70-140
Toluene-d8	94.8 %	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: A5333705
Date Received: 08/24/20
Date Reported: 09/01/20
Sampled: 08/24/20
Prepared: 08/25/20
Analyzed: 08/25/20

VES Influent

0H24007-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	380	ug/L	20	93	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		104 %			70-130	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333705
Date Received: 08/24/20
Date Reported: 09/01/20
Sampled: 08/24/20
Prepared: 08/25/20
Analyzed: 08/25/20

VES Effluent

0H24007-02 (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		89.8 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333705
Date Received: 08/24/20
Date Reported: 09/01/20
Units: ppmv

Date Sampled:	08/24/20	08/24/20	
Date Prepared:	08/25/20	08/25/20	
Date Analyzed:	08/25/20	08/25/20	
AA ID No:	OH24007-01	OH24007-02	
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	69	<5.7	5.7
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333705
Date Received: 08/24/20
Date Reported: 09/01/20

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 B0H2516 - *** DEFAULT PREP ***</i>										
Blank (B0H2516-BLK1)				Prepared & Analyzed: 08/25/20						
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>	43.7		ug/L	50.0		87.4	70-140			
<i>Surrogate: Dibromofluoromethane</i>	47.6		ug/L	50.0		95.2	70-140			
<i>Surrogate: Toluene-d8</i>	46.5		ug/L	50.0		93.0	70-140			
LCS (B0H2516-BS1)				Prepared & Analyzed: 08/25/20						
Benzene	16.3	0.50	ug/L	20.0		81.6	75-125			
Ethylbenzene	20.1	0.50	ug/L	20.0		101	75-125			
Methyl-tert-Butyl Ether (MTBE)	32.7	2.0	ug/L	40.0		81.8	75-125			
Toluene	19.1	0.50	ug/L	20.0		95.5	75-125			
o-Xylene	20.3	0.50	ug/L	20.0		101	75-125			
m,p-Xylenes	39.8	1.0	ug/L	40.0		99.4	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	44.4		ug/L	50.0		88.8	70-140			
<i>Surrogate: Dibromofluoromethane</i>	42.8		ug/L	50.0		85.7	70-140			
<i>Surrogate: Toluene-d8</i>	48.1		ug/L	50.0		96.2	70-140			
LCS Dup (B0H2516-BSD1)				Prepared & Analyzed: 08/25/20						
Benzene	17.0	0.50	ug/L	20.0		85.2	75-125	4.38	30	
Ethylbenzene	20.3	0.50	ug/L	20.0		102	75-125	0.890	30	
Methyl-tert-Butyl Ether (MTBE)	34.4	2.0	ug/L	40.0		85.9	75-125	4.89	30	
Toluene	19.4	0.50	ug/L	20.0		97.0	75-125	1.51	30	
o-Xylene	20.8	0.50	ug/L	20.0		104	75-125	2.77	30	
m,p-Xylenes	40.8	1.0	ug/L	40.0		102	75-125	2.48	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	45.5		ug/L	50.0		90.9	70-140			
<i>Surrogate: Dibromofluoromethane</i>	44.0		ug/L	50.0		87.9	70-140			
<i>Surrogate: Toluene-d8</i>	47.3		ug/L	50.0		94.6	70-140			
Duplicate (B0H2516-DUP1)				Source: 0H24007-01 Prepared & Analyzed: 08/25/20						

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: A5333705
Date Received: 08/24/20
Date Reported: 09/01/20

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 B0H2516 - *** DEFAULT PREP ***</i>										
Duplicate (B0H2516-DUP1) Continued Source: 0H24007-01 Prepared & Analyzed: 08/25/20										
Benzene	0.590	0.50	ug/L		0.530			10.7	30	
Ethylbenzene	0.500	0.50	ug/L		0.390			24.7	30	
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L		<2.0				30	
Toluene	0.510	0.50	ug/L		0.460			10.3	30	
o-Xylene	<0.50	0.50	ug/L		<0.50				30	
m,p-Xylenes	1.07	1.0	ug/L		0.870			20.6	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	43.3		ug/L	50.0		86.6	70-140			
<i>Surrogate: Dibromofluoromethane</i>	43.0		ug/L	50.0		85.9	70-140			
<i>Surrogate: Toluene-d8</i>	48.5		ug/L	50.0		97.1	70-140			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B0H2512 - *** DEFAULT PREP ***</i>										
Blank (B0H2512-BLK1) Prepared & Analyzed: 08/25/20										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	41.8		ug/L	50.0		83.5	70-130			
LCS (B0H2512-BS1) Prepared & Analyzed: 08/25/20										
Gasoline Range Organics (GRO)	442	20	ug/L	500		88.4	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	45.7		ug/L	50.0		91.5	70-130			
LCS Dup (B0H2512-BSD1) Prepared & Analyzed: 08/25/20										
Gasoline Range Organics (GRO)	464	20	ug/L	500		92.8	75-125	4.83	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	50.7		ug/L	50.0		101	70-130			
Duplicate (B0H2512-DUP1) Source: 0H24007-01 Prepared & Analyzed: 08/25/20										
Gasoline Range Organics (GRO)	387	20	ug/L		377			2.80	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	51.0		ug/L	50.0		102	70-130			
GRO in Vapor as Hexane - Quality Control										
<i>Batch B0H2512 - *** DEFAULT PREP ***</i>										
Blank (B0H2512-BLK1) Prepared & Analyzed: 08/25/20										
GRO as Hexane	<5.7	5.7	ppmv							
Duplicate (B0H2512-DUP1) Source: 0H24007-01 Prepared & Analyzed: 08/25/20										

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: A5333705
Date Received: 08/24/20
Date Reported: 09/01/20

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 B0H2512 - *** DEFAULT PREP ***</i>										
Duplicate (B0H2512-DUP1) Continued Source: 0H24007-01 Prepared & Analyzed: 08/25/20										
GRO as Hexane	71.2	5.7	ppmv		69.5			2.48	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: A5333705
Date Received: 08/24/20
Date Reported: 09/01/20

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 16, 2020

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5333706 / 0H24008**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 08/24/20 15:24 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', 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: A5333706
Date Received: 08/24/20
Date Reported: 09/16/20

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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GRO in Vapor as Hexane

VES After GAC-1	0H24008-01	Vapor	5	08/24/20 09:19	08/24/20 15:24
VES After GAC-2	0H24008-02	Vapor	5	08/24/20 09:18	08/24/20 15:24

VOCs BTEX/MTBE Vapor GC/MS

VES After GAC-1	0H24008-01	Vapor	5	08/24/20 09:19	08/24/20 15:24
VES After GAC-2	0H24008-02	Vapor	5	08/24/20 09:18	08/24/20 15:24

VOCs Gasoline Range Organics Vapor

VES After GAC-1	0H24008-01	Vapor	5	08/24/20 09:19	08/24/20 15:24
VES After GAC-2	0H24008-02	Vapor	5	08/24/20 09:18	08/24/20 15:24

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: A5333706
Date Received: 08/24/20
Date Reported: 09/16/20
Sampled: 08/24/20
Prepared: 08/26/20
Analyzed: 08/26/20

VES After GAC-1
0H24008-01 (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	103 %	70-140
Dibromofluoromethane	98.1 %	70-140
Toluene-d8	95.4 %	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: A5333706
Date Received: 08/24/20
Date Reported: 09/16/20
Sampled: 08/24/20
Prepared: 08/26/20
Analyzed: 08/26/20

VES After GAC-2
0H24008-02 (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	94.2 %	70-140
Dibromofluoromethane	103 %	70-140
Toluene-d8	97.3 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333706
Date Received: 08/24/20
Date Reported: 09/16/20
Sampled: 08/24/20
Prepared: 08/25/20
Analyzed: 08/25/20

VES After GAC-1

0H24008-01 (Vapor)

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

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333706
Date Received: 08/24/20
Date Reported: 09/16/20
Sampled: 08/24/20
Prepared: 08/25/20
Analyzed: 08/25/20

VES After GAC-2

0H24008-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		92.2 %			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
Method: GRO in Vapor as Hexane

AA Project No: A5333706
Date Received: 08/24/20
Date Reported: 09/16/20
Units: ppmv

Date Sampled:	08/24/20	08/24/20	
Date Prepared:	08/25/20	08/25/20	
Date Analyzed:	08/25/20	08/25/20	
AA ID No:	0H24008-01	0H24008-02	
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	<4.9	<4.9	4.9
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333706
Date Received: 08/24/20
Date Reported: 09/16/20

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 B0H2610 - *** DEFAULT PREP ***</i>										
Blank (B0H2610-BLK1)				Prepared & Analyzed: 08/26/20						
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>	51.2		ug/L	50.0		102	70-140			
<i>Surrogate: Dibromofluoromethane</i>	44.7		ug/L	50.0		89.4	70-140			
<i>Surrogate: Toluene-d8</i>	51.9		ug/L	50.0		104	70-140			
LCS (B0H2610-BS1)				Prepared & Analyzed: 08/26/20						
Benzene	19.0	0.50	ug/L	20.0		95.1	75-125			
Ethylbenzene	19.4	0.50	ug/L	20.0		97.1	75-125			
Methyl-tert-Butyl Ether (MTBE)	42.8	2.0	ug/L	40.0		107	75-125			
Toluene	18.8	0.50	ug/L	20.0		94.2	75-125			
o-Xylene	21.2	0.50	ug/L	20.0		106	75-125			
m,p-Xylenes	39.1	1.0	ug/L	40.0		97.8	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	49.6		ug/L	50.0		99.1	70-140			
<i>Surrogate: Dibromofluoromethane</i>	53.9		ug/L	50.0		108	70-140			
<i>Surrogate: Toluene-d8</i>	49.1		ug/L	50.0		98.2	70-140			
LCS Dup (B0H2610-BSD1)				Prepared: 08/26/20 Analyzed: 08/27/20						
Benzene	18.7	0.50	ug/L	20.0		93.7	75-125	1.48	30	
Ethylbenzene	19.1	0.50	ug/L	20.0		95.3	75-125	1.87	30	
Methyl-tert-Butyl Ether (MTBE)	37.6	2.0	ug/L	40.0		93.9	75-125	13.2	30	
Toluene	18.6	0.50	ug/L	20.0		92.8	75-125	1.55	30	
o-Xylene	20.6	0.50	ug/L	20.0		103	75-125	2.68	30	
m,p-Xylenes	37.5	1.0	ug/L	40.0		93.7	75-125	4.36	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	46.8		ug/L	50.0		93.7	70-140			
<i>Surrogate: Dibromofluoromethane</i>	52.3		ug/L	50.0		105	70-140			
<i>Surrogate: Toluene-d8</i>	48.8		ug/L	50.0		97.7	70-140			
Duplicate (B0H2610-DUP1)				Source: 0H24008-01 Prepared & Analyzed: 08/26/20						

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: A5333706
Date Received: 08/24/20
Date Reported: 09/16/20

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 B0H2610 - *** DEFAULT PREP ***</i>										
Duplicate (B0H2610-DUP1) Continued Source: 0H24008-01 Prepared & Analyzed: 08/26/20										
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	
<i>Surrogate: 4-Bromofluorobenzene</i>	46.0		ug/L	50.0		92.1	70-140			
<i>Surrogate: Dibromofluoromethane</i>	49.7		ug/L	50.0		99.4	70-140			
<i>Surrogate: Toluene-d8</i>	48.0		ug/L	50.0		95.9	70-140			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B0H2512 - *** DEFAULT PREP ***</i>										
Blank (B0H2512-BLK1) Prepared & Analyzed: 08/25/20										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	41.8		ug/L	50.0		83.5	70-130			
LCS (B0H2512-BS1) Prepared & Analyzed: 08/25/20										
Gasoline Range Organics (GRO)	442	20	ug/L	500		88.4	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	45.7		ug/L	50.0		91.5	70-130			
LCS Dup (B0H2512-BSD1) Prepared & Analyzed: 08/25/20										
Gasoline Range Organics (GRO)	464	20	ug/L	500		92.8	75-125	4.83	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	50.7		ug/L	50.0		101	70-130			
Duplicate (B0H2512-DUP1) Source: 0H24007-01 Prepared & Analyzed: 08/25/20										
Gasoline Range Organics (GRO)	387	20	ug/L		377			2.80	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	51.0		ug/L	50.0		102	70-130			
GRO in Vapor as Hexane - Quality Control										
<i>Batch B0H2512 - *** DEFAULT PREP ***</i>										
Blank (B0H2512-BLK1) Prepared & Analyzed: 08/25/20										
GRO as Hexane	<4.9	4.9	ppmv							
Duplicate (B0H2512-DUP1) Source: 0H24007-01 Prepared & Analyzed: 08/25/20										

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: A5333706
Date Received: 08/24/20
Date Reported: 09/16/20

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 B0H2512 - *** DEFAULT PREP ***</i>										
Duplicate (B0H2512-DUP1) Continued Source: 0H24007-01 Prepared & Analyzed: 08/25/20										
GRO as Hexane	71.2	4.9	ppmv		69.5			2.48	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: A5333706
Date Received: 08/24/20
Date Reported: 09/16/20

Special Notes

A handwritten signature in black ink, appearing to be 'VA' or similar, written over a horizontal line.

Viorel Vasile
Operations Manager



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

September 21, 2020

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5333744 / 0I14018**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 09/14/20 15:17 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: A5333744
Date Received: 09/14/20
Date Reported: 09/21/20

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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GRO in Vapor as Hexane

VES Influent	0I14018-01	Vapor	5	09/14/20 08:58	09/14/20 15:17
VES Effluent	0I14018-02	Vapor	5	09/14/20 08:50	09/14/20 15:17

VOCs BTEX/MTBE Vapor GC/MS

VES Influent	0I14018-01	Vapor	5	09/14/20 08:58	09/14/20 15:17
VES Effluent	0I14018-02	Vapor	5	09/14/20 08:50	09/14/20 15:17

VOCs Gasoline Range Organics Vapor

VES Influent	0I14018-01	Vapor	5	09/14/20 08:58	09/14/20 15:17
VES Effluent	0I14018-02	Vapor	5	09/14/20 08:50	09/14/20 15:17

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333744
Date Received: 09/14/20
Date Reported: 09/21/20
Sampled: 09/14/20
Prepared: 09/15/20
Analyzed: 09/15/20

VES Influent
0114018-01 (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	92.2 %	70-140
Dibromofluoromethane	89.6 %	70-140
Toluene-d8	92.2 %	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: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5333744
Date Received: 09/14/20
Date Reported: 09/21/20
Sampled: 09/14/20
Prepared: 09/15/20
Analyzed: 09/15/20

VES Effluent
0114018-02 (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	93.5 %	70-140
Dibromofluoromethane	87.5 %	70-140
Toluene-d8	92.1 %	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: A5333744
Date Received: 09/14/20
Date Reported: 09/21/20
Sampled: 09/14/20
Prepared: 09/16/20
Analyzed: 09/16/20

VES Influent
0114018-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	180	ug/L	20	44	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>				<u>%REC Limits</u>
a,a,a-Trifluorotoluene		97.5 %				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: A5333744
Date Received: 09/14/20
Date Reported: 09/21/20
Sampled: 09/14/20
Prepared: 09/16/20
Analyzed: 09/16/20

VES Effluent
0114018-02 (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		97.9 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333744
Date Received: 09/14/20
Date Reported: 09/21/20
Units: ppmv

Date Sampled:	09/14/20	09/14/20	
Date Prepared:	09/16/20	09/16/20	
Date Analyzed:	09/16/20	09/16/20	
AA ID No:	0114018-01	0114018-02	
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	33	<4.9	4.9
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333744
Date Received: 09/14/20
Date Reported: 09/21/20

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 B011513 - *** DEFAULT PREP ***</i>										
Blank (B011513-BLK1)				Prepared & Analyzed: 09/15/20						
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>	50.3		ug/L	50.0		101	70-140			
<i>Surrogate: Dibromofluoromethane</i>	49.2		ug/L	50.0		98.3	70-140			
<i>Surrogate: Toluene-d8</i>	46.5		ug/L	50.0		93.1	70-140			
LCS (B011513-BS1)				Prepared & Analyzed: 09/15/20						
Benzene	21.5	0.50	ug/L	20.0		107	75-125			
Ethylbenzene	18.7	0.50	ug/L	20.0		93.4	75-125			
Methyl-tert-Butyl Ether (MTBE)	39.2	2.0	ug/L	40.0		98.0	75-125			
Toluene	17.5	0.50	ug/L	20.0		87.5	75-125			
o-Xylene	18.1	0.50	ug/L	20.0		90.5	75-125			
m,p-Xylenes	36.6	1.0	ug/L	40.0		91.4	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	47.5		ug/L	50.0		95.0	70-140			
<i>Surrogate: Dibromofluoromethane</i>	46.0		ug/L	50.0		92.1	70-140			
<i>Surrogate: Toluene-d8</i>	41.2		ug/L	50.0		82.5	70-140			
LCS Dup (B011513-BSD1)				Prepared & Analyzed: 09/15/20						
Benzene	17.6	0.50	ug/L	20.0		87.8	75-125	20.1	30	
Ethylbenzene	19.0	0.50	ug/L	20.0		94.8	75-125	1.38	30	
Methyl-tert-Butyl Ether (MTBE)	30.0	2.0	ug/L	40.0		75.0	75-125	26.5	30	
Toluene	18.6	0.50	ug/L	20.0		93.0	75-125	6.04	30	
o-Xylene	19.1	0.50	ug/L	20.0		95.3	75-125	5.17	30	
m,p-Xylenes	39.3	1.0	ug/L	40.0		98.3	75-125	7.19	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	44.9		ug/L	50.0		89.7	70-140			
<i>Surrogate: Dibromofluoromethane</i>	41.5		ug/L	50.0		83.0	70-140			
<i>Surrogate: Toluene-d8</i>	44.8		ug/L	50.0		89.6	70-140			
Duplicate (B011513-DUP1)				Source: 0114014-02 Prepared & Analyzed: 09/15/20						

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: A5333744
Date Received: 09/14/20
Date Reported: 09/21/20

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 B011513 - *** DEFAULT PREP ***</i>										
Duplicate (B011513-DUP1) Continued Source: 0114014-02 Prepared & Analyzed: 09/15/20										
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	
<i>Surrogate: 4-Bromofluorobenzene</i>	46.4		ug/L	50.0		92.7	70-140			
<i>Surrogate: Dibromofluoromethane</i>	44.8		ug/L	50.0		89.5	70-140			
<i>Surrogate: Toluene-d8</i>	45.4		ug/L	50.0		90.9	70-140			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B011616 - *** DEFAULT PREP ***</i>										
Blank (B011616-BLK1) Prepared & Analyzed: 09/16/20										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	49.0		ug/L	50.0		98.0	70-130			
LCS (B011616-BS1) Prepared & Analyzed: 09/16/20										
Gasoline Range Organics (GRO)	467	20	ug/L	500		93.4	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	53.2		ug/L	50.0		106	70-130			
LCS Dup (B011616-BSD1) Prepared & Analyzed: 09/16/20										
Gasoline Range Organics (GRO)	479	20	ug/L	500		95.9	75-125	2.65	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	54.8		ug/L	50.0		110	70-130			
GRO in Vapor as Hexane - Quality Control										
<i>Batch B011616 - *** DEFAULT PREP ***</i>										
Blank (B011616-BLK1) Prepared & Analyzed: 09/16/20										
GRO as Hexane	<4.9	4.9	ppmv							

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: A5333744
Date Received: 09/14/20
Date Reported: 09/21/20

Special Notes

A handwritten signature in black ink, appearing to be 'AV' or similar initials, written over a horizontal line.

Viorel Vasile
Operations Manager



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

7665 ETON AVE., CHATSWORTH, CA 91311
Tel: 818-998-5547 FAX: 818-998-7258

21217

Page 1 of 1

Client: APEX/The Source Group, Inc. Project Name / No.: DFSP - Norwalk / 091-NDLA Sampler's Name: Glenn Androsky
 Project Manager: Neil Irish Site Address: 15306 Norwalk Blvd Sampler's Signature: *Glenn Androsky*
 Phone: 562-597-1055 City: Norwalk P.O. No.:
 Fax: 569-597-1070 State & Zip: CA 90650 Quote No.:

TAT Turnaround Codes **

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

Client I.D.	Date	Time	Sample Matrix	No. of Cont	ANALYSIS REQUESTED (Test Name)			Special Instructions
					Total VOCs Gas 9015	Total VOCs Hexane 8015	BTEX/MTBE 8260B	
VES Influent	9.14.20	0858	Air	1	✓	✓		
VES Effluent	"	0850	Air	1	✓	✓		

PRIORITY
 SHIP
 16 SEP 14 16:15
 16 SEP 14 16:15
 16 SEP 14 16:15
 16 SEP 14 16:15

Relinquished by <i>Glenn Androsky</i>		Date 9.14.20	Time 1235	Received by
Relinquished by <i>[Signature]</i>		Date 9.14.20	Time 1517	Received by <i>[Signature]</i>
Relinquished by		Date	Time	Received by

AS 22374 / 0214018

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



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

September 21, 2020

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5333745 / 0I14019**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 09/14/20 15:17 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', written in a cursive style.

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: A5333745
Date Received: 09/14/20
Date Reported: 09/21/20

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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GRO in Vapor as Hexane

VES After GAC-1	0I14019-01	Vapor	5	09/14/20 08:56	09/14/20 15:17
VES After GAC-2	0I14019-02	Vapor	5	09/14/20 08:54	09/14/20 15:17

VOCs BTEX/MTBE Vapor GC/MS

VES After GAC-1	0I14019-01	Vapor	5	09/14/20 08:56	09/14/20 15:17
VES After GAC-2	0I14019-02	Vapor	5	09/14/20 08:54	09/14/20 15:17

VOCs Gasoline Range Organics Vapor

VES After GAC-1	0I14019-01	Vapor	5	09/14/20 08:56	09/14/20 15:17
VES After GAC-2	0I14019-02	Vapor	5	09/14/20 08:54	09/14/20 15:17

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	AA Project No:	A5333745
Project No:	04-NDLA-013	Date Received:	09/14/20
Project Name:	DFSP Norwalk VES AQMD	Date Reported:	09/21/20
Matrix:	Vapor	Sampled:	09/14/20
Dilution:	1	Prepared:	09/16/20
Method:	VOCs BTEX/MTBE Vapor by GC/MS 8260M	Analyzed:	09/16/20

VES After GAC-1
0114019-01 (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	108 %	70-140
Dibromofluoromethane	109 %	70-140
Toluene-d8	95.9 %	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: A5333745
Date Received: 09/14/20
Date Reported: 09/21/20
Sampled: 09/14/20
Prepared: 09/16/20
Analyzed: 09/16/20

VES After GAC-2
0114019-02 (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	111 %	70-140
Dibromofluoromethane	110 %	70-140
Toluene-d8	98.0 %	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: A5333745
Date Received: 09/14/20
Date Reported: 09/21/20
Sampled: 09/14/20
Prepared: 09/16/20
Analyzed: 09/16/20

**VES After GAC-1
0114019-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	71	ug/L	20	17	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		94.3 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333745
Date Received: 09/14/20
Date Reported: 09/21/20
Sampled: 09/14/20
Prepared: 09/16/20
Analyzed: 09/16/20

VES After GAC-2
0114019-02 (Vapor)

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

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333745
Date Received: 09/14/20
Date Reported: 09/21/20
Units: ppmv

Date Sampled:	09/14/20	09/14/20	
Date Prepared:	09/16/20	09/16/20	
Date Analyzed:	09/16/20	09/16/20	
AA ID No:	0114019-01	0114019-02	
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	13	<4.9	4.9
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333745
Date Received: 09/14/20
Date Reported: 09/21/20

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

Batch B011617 - *** DEFAULT PREP ***

Blank (B011617-BLK1)

Prepared & Analyzed: 09/16/20

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

Surrogate: 4-Bromofluorobenzene	51.6		ug/L	50.0		103	70-140			
Surrogate: Dibromofluoromethane	50.0		ug/L	50.0		100	70-140			
Surrogate: Toluene-d8	47.1		ug/L	50.0		94.1	70-140			

LCS (B011617-BS1)

Prepared & Analyzed: 09/16/20

Benzene	22.0	0.50	ug/L	20.0		110	75-125			
Ethylbenzene	21.1	0.50	ug/L	20.0		105	75-125			
Methyl-tert-Butyl Ether (MTBE)	39.4	2.0	ug/L	40.0		98.5	75-125			
Toluene	19.6	0.50	ug/L	20.0		97.9	75-125			
o-Xylene	19.8	0.50	ug/L	20.0		99.0	75-125			
m,p-Xylenes	40.1	1.0	ug/L	40.0		100	75-125			

Surrogate: 4-Bromofluorobenzene	51.2		ug/L	50.0		102	70-140			
Surrogate: Dibromofluoromethane	50.1		ug/L	50.0		100	70-140			
Surrogate: Toluene-d8	48.7		ug/L	50.0		97.3	70-140			

LCS Dup (B011617-BSD1)

Prepared & Analyzed: 09/16/20

Benzene	22.0	0.50	ug/L	20.0		110	75-125	0.0454	30	
Ethylbenzene	20.5	0.50	ug/L	20.0		102	75-125	2.79	30	
Methyl-tert-Butyl Ether (MTBE)	40.0	2.0	ug/L	40.0		99.9	75-125	1.39	30	
Toluene	19.0	0.50	ug/L	20.0		95.0	75-125	3.06	30	
o-Xylene	19.2	0.50	ug/L	20.0		96.2	75-125	2.87	30	
m,p-Xylenes	39.0	1.0	ug/L	40.0		97.4	75-125	2.83	30	

Surrogate: 4-Bromofluorobenzene	50.5		ug/L	50.0		101	70-140			
Surrogate: Dibromofluoromethane	50.3		ug/L	50.0		101	70-140			
Surrogate: Toluene-d8	48.2		ug/L	50.0		96.3	70-140			

Duplicate (B011617-DUP1) Source: 0114019-01 Prepared & Analyzed: 09/16/20

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: A5333745
Date Received: 09/14/20
Date Reported: 09/21/20

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 B011617 - *** DEFAULT PREP ***</i>										
Duplicate (B011617-DUP1) Continued Source: 0114019-01 Prepared & Analyzed: 09/16/20										
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	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>55.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>110</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>54.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>108</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>48.3</i>		<i>ug/L</i>	<i>50.0</i>		<i>96.6</i>	<i>70-140</i>			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B011616 - *** DEFAULT PREP ***</i>										
Blank (B011616-BLK1) Prepared & Analyzed: 09/16/20										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>49.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>98.0</i>	<i>70-130</i>			
LCS (B011616-BS1) Prepared & Analyzed: 09/16/20										
Gasoline Range Organics (GRO)	467	20	ug/L	500		93.4	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>53.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>106</i>	<i>70-130</i>			
LCS Dup (B011616-BSD1) Prepared & Analyzed: 09/16/20										
Gasoline Range Organics (GRO)	479	20	ug/L	500		95.9	75-125	2.65	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>54.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>110</i>	<i>70-130</i>			
GRO in Vapor as Hexane - Quality Control										
<i>Batch B011616 - *** DEFAULT PREP ***</i>										
Blank (B011616-BLK1) Prepared & Analyzed: 09/16/20										
GRO as Hexane	<4.9	4.9	ppmv							

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: A5333745
Date Received: 09/14/20
Date Reported: 09/21/20

Special Notes

A handwritten signature in black ink, appearing to be 'VA' or similar initials.

Viorel Vasile
Operations Manager



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

July 24, 2020

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5333660 / OG20014**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 07/20/20 14:00 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: A5333660
Date Received: 07/20/20
Date Reported: 07/24/20

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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GRO in Vapor as Hexane

Thermox Influent	0G20014-01	Vapor	5	07/20/20 10:51	07/20/20 14:00
Thermox Effluent	0G20014-02	Vapor	5	07/20/20 10:45	07/20/20 14:00

VOCs BTEX/MTBE Vapor GC/MS

Thermox Influent	0G20014-01	Vapor	5	07/20/20 10:51	07/20/20 14:00
Thermox Effluent	0G20014-02	Vapor	5	07/20/20 10:45	07/20/20 14:00

VOCs Gasoline Range Organics Vapor

Thermox Influent	0G20014-01	Vapor	5	07/20/20 10:51	07/20/20 14:00
Thermox Effluent	0G20014-02	Vapor	5	07/20/20 10:45	07/20/20 14:00

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: A5333660
Date Received: 07/20/20
Date Reported: 07/24/20
Sampled: 07/20/20
Prepared: 07/20/20
Analyzed: 07/20/20

Thermox Influent
0G20014-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	3.5	ug/L	0.50	1.1	ppmv	0.16
Ethylbenzene	0.91	ug/L	0.50	0.21	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	1.6	ug/L	0.50	0.42	ppmv	0.13
o-Xylene	2.1	ug/L	0.50	0.48	ppmv	0.12
m,p-Xylenes	3.1	ug/L	1.0	0.71	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	91.6 %	70-140
Dibromofluoromethane	101 %	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: A5333660
Date Received: 07/20/20
Date Reported: 07/24/20
Sampled: 07/20/20
Prepared: 07/20/20
Analyzed: 07/20/20

Thermax Effluent
0G20014-02 (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	94.1 %	70-140
Dibromofluoromethane	99.2 %	70-140
Toluene-d8	99.3 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 10
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5333660
Date Received: 07/20/20
Date Reported: 07/24/20
Sampled: 07/20/20
Prepared: 07/22/20
Analyzed: 07/22/20

Thermox Influent
0G20014-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	3900	ug/L	20	950	ppmv	4.9
Surrogates		%REC			%REC Limits	
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: A5333660
Date Received: 07/20/20
Date Reported: 07/24/20
Sampled: 07/20/20
Prepared: 07/22/20
Analyzed: 07/22/20

Thermax Effluent
0G20014-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		85.6 %			70-130	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333660
Date Received: 07/20/20
Date Reported: 07/24/20
Units: ppmv

Date Sampled:	07/20/20	07/20/20	
Date Prepared:	07/22/20	07/22/20	
Date Analyzed:	07/22/20	07/22/20	
AA ID No:	0G20014-01	0G20014-02	
Client ID No:	Thermox Influent	Thermox Effluent	
Matrix:	Vapor	Vapor	
Dilution Factor:	10	1	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	750	<5.7	5.7
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333660
Date Received: 07/20/20
Date Reported: 07/24/20

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 B0G2020 - *** DEFAULT PREP ***</i>										
Blank (B0G2020-BLK1)				Prepared & Analyzed: 07/20/20						
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>47.4</i>		<i>ug/L</i>	<i>50</i>		<i>94.7</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>49.4</i>		<i>ug/L</i>	<i>50</i>		<i>98.7</i>	<i>70-140</i>			
LCS (B0G2020-BS1)				Prepared & Analyzed: 07/20/20						
Benzene	17.7	0.50	ug/L	20		88.6	75-125			
Ethylbenzene	21.8	0.50	ug/L	20		109	75-125			
Methyl-tert-Butyl Ether (MTBE)	34.0	2.0	ug/L	40		85.1	75-125			
Toluene	21.2	0.50	ug/L	20		106	75-125			
o-Xylene	21.6	0.50	ug/L	20		108	75-125			
m,p-Xylenes	44.5	1.0	ug/L	40		111	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>47.9</i>		<i>ug/L</i>	<i>50</i>		<i>95.8</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>45.6</i>		<i>ug/L</i>	<i>50</i>		<i>91.2</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>49.9</i>		<i>ug/L</i>	<i>50</i>		<i>99.7</i>	<i>70-140</i>			
LCS Dup (B0G2020-BSD1)				Prepared: 07/20/20 Analyzed: 07/21/20						
Benzene	17.8	0.50	ug/L	20		88.8	75-125	0.338	30	
Ethylbenzene	21.9	0.50	ug/L	20		109	75-125	0.413	30	
Methyl-tert-Butyl Ether (MTBE)	32.6	2.0	ug/L	40		81.6	75-125	4.29	30	
Toluene	21.6	0.50	ug/L	20		108	75-125	1.59	30	
o-Xylene	22.3	0.50	ug/L	20		112	75-125	3.51	30	
m,p-Xylenes	45.4	1.0	ug/L	40		114	75-125	1.96	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>47.4</i>		<i>ug/L</i>	<i>50</i>		<i>94.8</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>45.5</i>		<i>ug/L</i>	<i>50</i>		<i>91.0</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>49.9</i>		<i>ug/L</i>	<i>50</i>		<i>99.7</i>	<i>70-140</i>			
Duplicate (B0G2020-DUP1)				Source: 0G20011-05 Prepared & Analyzed: 07/20/20						

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: A5333660
Date Received: 07/20/20
Date Reported: 07/24/20

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 B0G2020 - *** DEFAULT PREP ***</i>										
Duplicate (B0G2020-DUP1) Continued Source: 0G20011-05 Prepared & Analyzed: 07/20/20										
Benzene	0.540	0.50	ug/L		0.560			3.64	30	
Ethylbenzene	<0.50	0.50	ug/L		0.560			26.3	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		0.380				30	
m,p-Xylenes	<1.0	1.0	ug/L		0.830				30	
<i>Surrogate: 4-Bromofluorobenzene</i>	45.3		ug/L	50		90.6	70-140			
<i>Surrogate: Dibromofluoromethane</i>	49.2		ug/L	50		98.5	70-140			
<i>Surrogate: Toluene-d8</i>	51.9		ug/L	50		104	70-140			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B0G2218 - *** DEFAULT PREP ***</i>										
Blank (B0G2218-BLK1) Prepared & Analyzed: 07/22/20										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	43.6		ug/L	50		87.1	70-130			
LCS (B0G2218-BS1) Prepared & Analyzed: 07/22/20										
Gasoline Range Organics (GRO)	498	20	ug/L	500		99.6	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	52.0		ug/L	50		104	70-130			
LCS Dup (B0G2218-BSD1) Prepared & Analyzed: 07/22/20										
Gasoline Range Organics (GRO)	478	20	ug/L	500		95.6	75-125	4.08	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	50.3		ug/L	50		101	70-130			
Duplicate (B0G2218-DUP1) Source: 0G20014-01 Prepared & Analyzed: 07/22/20										
Gasoline Range Organics (GRO)	3650	200	ug/L		3910			6.73	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	49.3		ug/L	50		98.6	70-130			
GRO in Vapor as Hexane - Quality Control										
<i>Batch B0G2218 - *** DEFAULT PREP ***</i>										
Blank (B0G2218-BLK1) Prepared & Analyzed: 07/22/20										
GRO as Hexane	<5.7	5.7	ppmv							
Duplicate (B0G2218-DUP1) Source: 0G20014-01 Prepared & Analyzed: 07/22/20										

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: A5333660
Date Received: 07/20/20
Date Reported: 07/24/20

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 B0G2218 - *** DEFAULT PREP ***</i>										
Duplicate (B0G2218-DUP1) Continued Source: 0G20014-01 Prepared & Analyzed: 07/22/20										
GRO as Hexane	712	57	ppmv		754			5.73	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: A5333660
Date Received: 07/20/20
Date Reported: 07/24/20

Special Notes

A handwritten signature in black ink, appearing to be 'AV' or similar, located below the 'Special Notes' section.

Viorel Vasile
Operations Manager



AMERICAN ANALYTICALS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

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

20692

Page 1 of 1

Client: The Source Group, Inc. **Project Name / No.:** DFSP - Norwalk / 091-NDLA **Sampler's Name:** Glenn Androska
Project Manager: Neil Irish **Site Address:** 15306 Norwalk Blvd **Sampler's Signature:** *Glenn Androska*
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
					Total VOCs Gas 8013	Total VOCs Hexane 8015	BTX/MTHB 8260B	
Thermox Influent	0620014-01	1051	Air	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	VOC's reported as
Thermox Effluent	-02	1045	Air	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TPH and Hexane
								Detection limit of 75 ppm for Hexane
								and 0.15 ppm for Benzene

Relinquished by	Date	Time	Received by
<i>Glenn Androska</i>	7-20-20	12:30	<i>[Signature]</i>
<i>[Signature]</i>	7-20-20	1400	<i>[Signature]</i>
<i>[Signature]</i>			<i>[Signature]</i>

PRIORITY
 Rush _____ Hrs SH 72HR
 Date 7/20 Time 15:40 *[Signature]*

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



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

September 21, 2020

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5333746 / 0I14020**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 09/14/20 15:17 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: A5333746
Date Received: 09/14/20
Date Reported: 09/21/20

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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GRO in Vapor as Hexane

Thermox Influent	0I14020-01	Vapor	5	09/14/20 09:40	09/14/20 15:17
Thermox Effluent	0I14020-02	Vapor	5	09/14/20 09:40	09/14/20 15:17

VOCs BTEX/MTBE Vapor GC/MS

Thermox Influent	0I14020-01	Vapor	5	09/14/20 09:40	09/14/20 15:17
Thermox Effluent	0I14020-02	Vapor	5	09/14/20 09:40	09/14/20 15:17

VOCs Gasoline Range Organics Vapor

Thermox Influent	0I14020-01	Vapor	5	09/14/20 09:40	09/14/20 15:17
Thermox Effluent	0I14020-02	Vapor	5	09/14/20 09:40	09/14/20 15:17

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333746
Date Received: 09/14/20
Date Reported: 09/21/20
Sampled: 09/14/20
Prepared: 09/16/20
Analyzed: 09/16/20

Thermox Influent
0114020-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	11	ug/L	0.50	3.4	ppmv	0.16
Ethylbenzene	1.5	ug/L	0.50	0.35	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	1.5	ug/L	0.50	0.40	ppmv	0.13
o-Xylene	1.5	ug/L	0.50	0.35	ppmv	0.12
m,p-Xylenes	3.7	ug/L	1.0	0.85	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	95.2 %	70-140
Dibromofluoromethane	112 %	70-140
Toluene-d8	91.1 %	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: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5333746
Date Received: 09/14/20
Date Reported: 09/21/20
Sampled: 09/14/20
Prepared: 09/16/20
Analyzed: 09/16/20

Thermax Effluent
0114020-02 (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	97.8 %	70-140
Dibromofluoromethane	97.2 %	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: 10
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5333746
Date Received: 09/14/20
Date Reported: 09/21/20
Sampled: 09/14/20
Prepared: 09/16/20
Analyzed: 09/16/20

Thermox Influent
0114020-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	7700	ug/L	20	1900	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		114 %			70-130	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333746
Date Received: 09/14/20
Date Reported: 09/21/20
Sampled: 09/14/20
Prepared: 09/16/20
Analyzed: 09/16/20

Thermax Effluent
0114020-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		103 %			70-130	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333746
Date Received: 09/14/20
Date Reported: 09/21/20
Units: ppmv

Date Sampled:	09/14/20	09/14/20	
Date Prepared:	09/16/20	09/16/20	
Date Analyzed:	09/16/20	09/16/20	
AA ID No:	0114020-01	0114020-02	
Client ID No:	Thermox Influent	Thermox Effluent	
Matrix:	Vapor	Vapor	
Dilution Factor:	10	1	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	1400	<4.9	4.9
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333746
Date Received: 09/14/20
Date Reported: 09/21/20

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

Batch B011617 - *** DEFAULT PREP ***

Blank (B011617-BLK1)

Prepared & Analyzed: 09/16/20

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

Surrogate: 4-Bromofluorobenzene	51.6		ug/L	50.0		103	70-140			
Surrogate: Dibromofluoromethane	50.0		ug/L	50.0		100	70-140			
Surrogate: Toluene-d8	47.1		ug/L	50.0		94.1	70-140			

LCS (B011617-BS1)

Prepared & Analyzed: 09/16/20

Benzene	22.0	0.50	ug/L	20.0		110	75-125			
Ethylbenzene	21.1	0.50	ug/L	20.0		105	75-125			
Methyl-tert-Butyl Ether (MTBE)	39.4	2.0	ug/L	40.0		98.5	75-125			
Toluene	19.6	0.50	ug/L	20.0		97.9	75-125			
o-Xylene	19.8	0.50	ug/L	20.0		99.0	75-125			
m,p-Xylenes	40.1	1.0	ug/L	40.0		100	75-125			

Surrogate: 4-Bromofluorobenzene	51.2		ug/L	50.0		102	70-140			
Surrogate: Dibromofluoromethane	50.1		ug/L	50.0		100	70-140			
Surrogate: Toluene-d8	48.7		ug/L	50.0		97.3	70-140			

LCS Dup (B011617-BSD1)

Prepared & Analyzed: 09/16/20

Benzene	22.0	0.50	ug/L	20.0		110	75-125	0.0454	30	
Ethylbenzene	20.5	0.50	ug/L	20.0		102	75-125	2.79	30	
Methyl-tert-Butyl Ether (MTBE)	40.0	2.0	ug/L	40.0		99.9	75-125	1.39	30	
Toluene	19.0	0.50	ug/L	20.0		95.0	75-125	3.06	30	
o-Xylene	19.2	0.50	ug/L	20.0		96.2	75-125	2.87	30	
m,p-Xylenes	39.0	1.0	ug/L	40.0		97.4	75-125	2.83	30	

Surrogate: 4-Bromofluorobenzene	50.5		ug/L	50.0		101	70-140			
Surrogate: Dibromofluoromethane	50.3		ug/L	50.0		101	70-140			
Surrogate: Toluene-d8	48.2		ug/L	50.0		96.3	70-140			

Duplicate (B011617-DUP1) Source: 0114019-01 Prepared & Analyzed: 09/16/20

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: A5333746
Date Received: 09/14/20
Date Reported: 09/21/20

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 B011617 - *** DEFAULT PREP ***</i>										
Duplicate (B011617-DUP1) Continued Source: 0114019-01 Prepared & Analyzed: 09/16/20										
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	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>55.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>110</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>54.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>108</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>48.3</i>		<i>ug/L</i>	<i>50.0</i>		<i>96.6</i>	<i>70-140</i>			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B011616 - *** DEFAULT PREP ***</i>										
Blank (B011616-BLK1) Prepared & Analyzed: 09/16/20										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>49.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>98.0</i>	<i>70-130</i>			
LCS (B011616-BS1) Prepared & Analyzed: 09/16/20										
Gasoline Range Organics (GRO)	467	20	ug/L	500		93.4	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>53.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>106</i>	<i>70-130</i>			
LCS Dup (B011616-BSD1) Prepared & Analyzed: 09/16/20										
Gasoline Range Organics (GRO)	479	20	ug/L	500		95.9	75-125	2.65	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>54.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>110</i>	<i>70-130</i>			
GRO in Vapor as Hexane - Quality Control										
<i>Batch B011616 - *** DEFAULT PREP ***</i>										
Blank (B011616-BLK1) Prepared & Analyzed: 09/16/20										
GRO as Hexane	<4.9	4.9	ppmv							

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: A5333746
Date Received: 09/14/20
Date Reported: 09/21/20

Special Notes

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Viorel Vasile
Operations Manager



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

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

2/2/19

Page 1 of 1

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

Project Manager: Neil Irish Site Address: 15306 Norwalk Blvd Sampler's Signature: Alexander Androski

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

Fax: 569-597-1070

TAT Turnaround Codes **

① = Same Day Rush ④ = 72 Hour Rush

② = 24 Hour Rush ⑤ = 5 Day Rush

③ = 48 Hour Rush X = 10 Working Days (Standard TAT)

Client I.D.	Sample Matrix	Time	Date	No. of Cont	ANALYSIS REQUESTED (Test Name)			Special Instructions
					Total VOCs Gas 8019	Total VOCs Hexane 8015	BTEX/MTBE 82608	
0D14020001	Air	0940	9-14-20	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	VOC's reported as TPH and Hexane
-02	Air	0932	"	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Detection limit of 75 ppm for Hexane and 0.15 ppm for Benzene
<p>Relinquished by: <u>Alexander Androski</u> Date: <u>9-14-20</u> Time: <u>1230</u> Received by: <u>[Signature]</u></p> <p>Relinquished by: <u>[Signature]</u> Date: <u>9-14-20</u> Time: <u>1517</u> Received by: <u>[Signature]</u></p> <p>Relinquished by: _____ Date: _____ Time: _____ Received by: _____</p>								

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

September 08, 2020

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5333707 / 0H24009**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 08/24/20 15:24 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', 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: A5333707
Date Received: 08/24/20
Date Reported: 09/08/20

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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GRO in Vapor as Hexane

HW-1	0H24009-01	Vapor	5	08/24/20 10:30	08/24/20 15:24
HW-5	0H24009-02	Vapor	5	08/24/20 12:23	08/24/20 15:24
HW-7	0H24009-03	Vapor	5	08/24/20 10:33	08/24/20 15:24
HW-8	0H24009-04	Vapor	5	08/24/20 12:14	08/24/20 15:24
HW-9	0H24009-05	Vapor	5	08/24/20 10:49	08/24/20 15:24

VOCs BTEX/MTBE Vapor GC/MS

HW-1	0H24009-01	Vapor	5	08/24/20 10:30	08/24/20 15:24
HW-5	0H24009-02	Vapor	5	08/24/20 12:23	08/24/20 15:24
HW-7	0H24009-03	Vapor	5	08/24/20 10:33	08/24/20 15:24
HW-8	0H24009-04	Vapor	5	08/24/20 12:14	08/24/20 15:24
HW-9	0H24009-05	Vapor	5	08/24/20 10:49	08/24/20 15:24

VOCs Gasoline Range Organics Vapor

HW-1	0H24009-01	Vapor	5	08/24/20 10:30	08/24/20 15:24
HW-5	0H24009-02	Vapor	5	08/24/20 12:23	08/24/20 15:24
HW-7	0H24009-03	Vapor	5	08/24/20 10:33	08/24/20 15:24
HW-8	0H24009-04	Vapor	5	08/24/20 12:14	08/24/20 15:24
HW-9	0H24009-05	Vapor	5	08/24/20 10:49	08/24/20 15:24

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: A5333707
Date Received: 08/24/20
Date Reported: 09/08/20
Sampled: 08/24/20
Prepared: 08/26/20
Analyzed: 08/26/20

HW-1

0H24009-01 (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

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	96.2 %	70-140
Dibromofluoromethane	108 %	70-140
Toluene-d8	95.2 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	AA Project No:	A5333707
Project No:	04-NDLA-013	Date Received:	08/24/20
Project Name:	DFSP Norwalk VES AQMD	Date Reported:	09/08/20
Matrix:	Vapor	Sampled:	08/24/20
Dilution:	1	Prepared:	08/26/20
Method:	VOCs BTEX/MTBE Vapor by GC/MS 8260M	Analyzed:	08/26/20

HW-5

0H24009-02 (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	95.7 %	70-140
Dibromofluoromethane	111 %	70-140
Toluene-d8	96.7 %	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: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5333707
Date Received: 08/24/20
Date Reported: 09/08/20
Sampled: 08/24/20
Prepared: 08/26/20
Analyzed: 08/26/20

HW-7

0H24009-03 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	2.8	ug/L	0.50	0.88	ppmv	0.16
Ethylbenzene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	1.7	ug/L	0.50	0.45	ppmv	0.13
o-Xylene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
m,p-Xylenes	1.2	ug/L	1.0	0.28	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	98.3 %	70-140
Dibromofluoromethane	105 %	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: A5333707
Date Received: 08/24/20
Date Reported: 09/08/20
Sampled: 08/24/20
Prepared: 08/26/20
Analyzed: 08/26/20

HW-8

0H24009-04 (Vapor)

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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	98.8 %	70-140
Dibromofluoromethane	114 %	70-140
Toluene-d8	100 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	AA Project No:	A5333707
Project No:	04-NDLA-013	Date Received:	08/24/20
Project Name:	DFSP Norwalk VES AQMD	Date Reported:	09/08/20
Matrix:	Vapor	Sampled:	08/24/20
Dilution:	1	Prepared:	08/26/20
Method:	VOCs BTEX/MTBE Vapor by GC/MS 8260M	Analyzed:	08/26/20

HW-9

0H24009-05 (Vapor)

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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	91.2 %	70-140
Dibromofluoromethane	107 %	70-140
Toluene-d8	96.4 %	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: A5333707
Date Received: 08/24/20
Date Reported: 09/08/20
Sampled: 08/24/20
Prepared: 08/26/20
Analyzed: 08/26/20

HW-1

0H24009-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	50	ug/L	20	12	ppmv	4.9
Surrogates		%REC				%REC Limits
a,a,a-Trifluorotoluene		89.6 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333707
Date Received: 08/24/20
Date Reported: 09/08/20
Sampled: 08/24/20
Prepared: 08/26/20
Analyzed: 08/26/20

HW-5

0H24009-02 (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		94.0 %			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: A5333707
Date Received: 08/24/20
Date Reported: 09/08/20
Sampled: 08/24/20
Prepared: 08/26/20
Analyzed: 08/26/20

HW-7

0H24009-03 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	540	ug/L	20	130	ppmv	4.9
<u>Surrogates</u>						
a,a,a-Trifluorotoluene		<u>%REC</u>				<u>%REC Limits</u>
		106 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333707
Date Received: 08/24/20
Date Reported: 09/08/20
Sampled: 08/24/20
Prepared: 08/26/20
Analyzed: 08/26/20

HW-8

0H24009-04 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		90.2 %			70-130	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333707
Date Received: 08/24/20
Date Reported: 09/08/20
Sampled: 08/24/20
Prepared: 08/26/20
Analyzed: 08/26/20

HW-9

0H24009-05 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	2300	ug/L	20	560	ppmv	4.9
<u>Surrogates</u>						
a,a,a-Trifluorotoluene		<u>%REC</u>				<u>%REC Limits</u>
		114 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333707
Date Received: 08/24/20
Date Reported: 09/08/20
Units: ppmv

Date Sampled:	08/24/20	08/24/20	08/24/20	08/24/20	
Date Prepared:	08/26/20	08/26/20	08/26/20	08/26/20	
Date Analyzed:	08/26/20	08/26/20	08/26/20	08/26/20	
AA ID No:	0H24009-01	0H24009-02	0H24009-03	0H24009-04	
Client ID No:	HW-1	HW-5	HW-7	HW-8	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	9.2	<4.9	98	<4.9	4.9
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333707
Date Received: 08/24/20
Date Reported: 09/08/20
Units: ppmv

Date Sampled:	08/24/20	
Date Prepared:	08/26/20	
Date Analyzed:	08/26/20	
AA ID No:	0H24009-05	
Client ID No:	HW-9	
Matrix:	Vapor	
Dilution Factor:	1	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	430	4.9
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333707
Date Received: 08/24/20
Date Reported: 09/08/20

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 B0H2610 - *** DEFAULT PREP ***</i>										
Blank (B0H2610-BLK1)				Prepared & Analyzed: 08/26/20						
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>	51.2		ug/L	50.0		102	70-140			
<i>Surrogate: Dibromofluoromethane</i>	44.7		ug/L	50.0		89.4	70-140			
<i>Surrogate: Toluene-d8</i>	51.9		ug/L	50.0		104	70-140			
LCS (B0H2610-BS1)				Prepared & Analyzed: 08/26/20						
Benzene	19.0	0.50	ug/L	20.0		95.1	75-125			
Ethylbenzene	19.4	0.50	ug/L	20.0		97.1	75-125			
Methyl-tert-Butyl Ether (MTBE)	42.8	2.0	ug/L	40.0		107	75-125			
Toluene	18.8	0.50	ug/L	20.0		94.2	75-125			
o-Xylene	21.2	0.50	ug/L	20.0		106	75-125			
m,p-Xylenes	39.1	1.0	ug/L	40.0		97.8	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	49.6		ug/L	50.0		99.1	70-140			
<i>Surrogate: Dibromofluoromethane</i>	53.9		ug/L	50.0		108	70-140			
<i>Surrogate: Toluene-d8</i>	49.1		ug/L	50.0		98.2	70-140			
LCS Dup (B0H2610-BSD1)				Prepared: 08/26/20 Analyzed: 08/27/20						
Benzene	18.7	0.50	ug/L	20.0		93.7	75-125	1.48	30	
Ethylbenzene	19.1	0.50	ug/L	20.0		95.3	75-125	1.87	30	
Methyl-tert-Butyl Ether (MTBE)	37.6	2.0	ug/L	40.0		93.9	75-125	13.2	30	
Toluene	18.6	0.50	ug/L	20.0		92.8	75-125	1.55	30	
o-Xylene	20.6	0.50	ug/L	20.0		103	75-125	2.68	30	
m,p-Xylenes	37.5	1.0	ug/L	40.0		93.7	75-125	4.36	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	46.8		ug/L	50.0		93.7	70-140			
<i>Surrogate: Dibromofluoromethane</i>	52.3		ug/L	50.0		105	70-140			
<i>Surrogate: Toluene-d8</i>	48.8		ug/L	50.0		97.7	70-140			
Duplicate (B0H2610-DUP1)				Source: 0H24008-01 Prepared & Analyzed: 08/26/20						

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: A5333707
Date Received: 08/24/20
Date Reported: 09/08/20

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 B0H2610 - *** DEFAULT PREP ***</i>										
Duplicate (B0H2610-DUP1) Continued Source: 0H24008-01 Prepared & Analyzed: 08/26/20										
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	
<i>Surrogate: 4-Bromofluorobenzene</i>	46.0		ug/L	50.0		92.1	70-140			
<i>Surrogate: Dibromofluoromethane</i>	49.7		ug/L	50.0		99.4	70-140			
<i>Surrogate: Toluene-d8</i>	48.0		ug/L	50.0		95.9	70-140			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B0H2613 - *** DEFAULT PREP ***</i>										
Blank (B0H2613-BLK1) Prepared & Analyzed: 08/26/20										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	43.8		ug/L	50.0		87.5	70-130			
LCS (B0H2613-BS1) Prepared & Analyzed: 08/26/20										
Gasoline Range Organics (GRO)	460	20	ug/L	500		92.1	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	56.8		ug/L	50.0		114	70-130			
LCS Dup (B0H2613-BSD1) Prepared & Analyzed: 08/26/20										
Gasoline Range Organics (GRO)	470	20	ug/L	500		94.1	75-125	2.17	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	51.6		ug/L	50.0		103	70-130			
Duplicate (B0H2613-DUP1) Source: 0H24009-01 Prepared & Analyzed: 08/26/20										
Gasoline Range Organics (GRO)	49.5	20	ug/L		50.3			1.66	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	45.6		ug/L	50.0		91.2	70-130			
GRO in Vapor as Hexane - Quality Control										
<i>Batch B0H2613 - *** DEFAULT PREP ***</i>										
Blank (B0H2613-BLK1) Prepared & Analyzed: 08/26/20										
GRO as Hexane	<4.9	4.9	ppmv							
Duplicate (B0H2613-DUP1) Source: 0H24009-01 Prepared & Analyzed: 08/26/20										

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: A5333707
Date Received: 08/24/20
Date Reported: 09/08/20

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 B0H2613 - *** DEFAULT PREP ***</i>										
Duplicate (B0H2613-DUP1) Continued Source: 0H24009-01 Prepared & Analyzed: 08/26/20										
GRO as Hexane	9.04	4.9	ppmv		9.19			1.66	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: A5333707
Date Received: 08/24/20
Date Reported: 09/08/20

Special Notes

A handwritten signature in black ink, appearing to be 'VA' or similar, written over a horizontal line.

Viorel Vasile
Operations Manager



AMERICAN ANALYTICALS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

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

2110C

Client: The Source Group, Inc. **Project Name / No.:** DFSP - Norwalk / 091-NDLA **Sampler's Name:** Glenn Androska
Project Manager: Neil Irish **Site Address:** 15306 Norwalk Blvd **Sampler's Signature:** *Glenn Androska*
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
- ④ = 72 Hour Rush
- ② = 24 Hour Rush
- ⑤ = 5 Day Rush
- ③ = 48 Hour Rush
- X = 10 Working Days (Standard TAT)

Client I.D.	Date	Time	Sample Matrix	No. of Cont	Total VOCs Gas 8015	Total VOCs Hexane 8015	Total VOCs MTBE 8260B	Special Instructions	ANALYSIS REQUESTED (Test Name)	
									Date	Time
07124009-01	8-24-20	1030	Air	1	✓	✓	✓			
		1233	Air	1	✓	✓	✓			
		1033	Air	1	✓	✓	✓			
		1214	Air	1	✓	✓	✓			
		1049	Air	1	✓	✓	✓			

PRIORITY!!

A5223707EH24009

Relinquished by *Glenn Androska* Date 8-24-20 Time 1230 Received by *[Signature]*
 Relinquished by *[Signature]* Date 8-24-20 Time 1524 Received by *[Signature]*
 Relinquished by *[Signature]* Date /Time Received by *[Signature]*

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



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

September 08, 2020

Neil Irish

The Source Group, Inc. (SH)

1962 Freeman Ave.

Signal Hill, CA 90755

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

A5333708 / 0H24010

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 08/24/20 15:24 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: A5333708
Date Received: 08/24/20
Date Reported: 09/08/20

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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GRO in Vapor as Hexane

Trunkline#1(East)	0H24010-01	Vapor	5	08/24/20 09:33	08/24/20 15:24
Trunkline#2(South)	0H24010-02	Vapor	5	08/24/20 09:38	08/24/20 15:24

VOCs BTEX/MTBE Vapor GC/MS

Trunkline#1(East)	0H24010-01	Vapor	5	08/24/20 09:33	08/24/20 15:24
Trunkline#2(South)	0H24010-02	Vapor	5	08/24/20 09:38	08/24/20 15:24

VOCs Gasoline Range Organics Vapor

Trunkline#1(East)	0H24010-01	Vapor	5	08/24/20 09:33	08/24/20 15:24
Trunkline#2(South)	0H24010-02	Vapor	5	08/24/20 09:38	08/24/20 15:24

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: A5333708
Date Received: 08/24/20
Date Reported: 09/08/20
Sampled: 08/24/20
Prepared: 08/26/20
Analyzed: 08/26/20

Trunkline#1(East)
0H24010-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	1.2	ug/L	0.50	0.38	ppmv	0.16
Ethylbenzene	0.95	ug/L	0.50	0.22	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	1.1	ug/L	0.50	0.29	ppmv	0.13
o-Xylene	0.63	ug/L	0.50	0.15	ppmv	0.12
m,p-Xylenes	2.3	ug/L	1.0	0.53	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	90.5 %	70-140
Dibromofluoromethane	103 %	70-140
Toluene-d8	92.4 %	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:** A5333708**Date Received:** 08/24/20**Date Reported:** 09/08/20**Sampled:** 08/24/20**Prepared:** 08/26/20**Analyzed:** 08/27/20**Trunkline#2(South)****0H24010-02 (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

93.8 %

70-140

Dibromofluoromethane

105 %

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: 5
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5333708
Date Received: 08/24/20
Date Reported: 09/08/20
Sampled: 08/24/20
Prepared: 08/26/20
Analyzed: 08/26/20

Trunkline#1(East)
0H24010-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	3000	ug/L	20	730	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		103 %			70-130	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 5
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5333708
Date Received: 08/24/20
Date Reported: 09/08/20
Sampled: 08/24/20
Prepared: 08/26/20
Analyzed: 08/26/20

Trunkline#2(South)
0H24010-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	1800	ug/L	20	440	ppmv	4.9
Surrogates		%REC				%REC Limits
a,a,a-Trifluorotoluene		97.2 %				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
Method: GRO in Vapor as Hexane

AA Project No: A5333708
Date Received: 08/24/20
Date Reported: 09/08/20
Units: ppmv

Date Sampled:	08/24/20	08/24/20	
Date Prepared:	08/26/20	08/26/20	
Date Analyzed:	08/26/20	08/26/20	
AA ID No:	0H24010-01	0H24010-02	
Client ID No:	Trunkline#1(East) Trunkline#2(South)		
Matrix:	Vapor	Vapor	
Dilution Factor:	5	5	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	550	320	4.9
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333708
Date Received: 08/24/20
Date Reported: 09/08/20

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 B0H2610 - *** DEFAULT PREP ***</i>										
Blank (B0H2610-BLK1)				Prepared & Analyzed: 08/26/20						
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>	51.2		ug/L	50.0		102	70-140			
<i>Surrogate: Dibromofluoromethane</i>	44.7		ug/L	50.0		89.4	70-140			
<i>Surrogate: Toluene-d8</i>	51.9		ug/L	50.0		104	70-140			
LCS (B0H2610-BS1)				Prepared & Analyzed: 08/26/20						
Benzene	19.0	0.50	ug/L	20.0		95.1	75-125			
Ethylbenzene	19.4	0.50	ug/L	20.0		97.1	75-125			
Methyl-tert-Butyl Ether (MTBE)	42.8	2.0	ug/L	40.0		107	75-125			
Toluene	18.8	0.50	ug/L	20.0		94.2	75-125			
o-Xylene	21.2	0.50	ug/L	20.0		106	75-125			
m,p-Xylenes	39.1	1.0	ug/L	40.0		97.8	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	49.6		ug/L	50.0		99.1	70-140			
<i>Surrogate: Dibromofluoromethane</i>	53.9		ug/L	50.0		108	70-140			
<i>Surrogate: Toluene-d8</i>	49.1		ug/L	50.0		98.2	70-140			
LCS Dup (B0H2610-BSD1)				Prepared: 08/26/20 Analyzed: 08/27/20						
Benzene	18.7	0.50	ug/L	20.0		93.7	75-125	1.48	30	
Ethylbenzene	19.1	0.50	ug/L	20.0		95.3	75-125	1.87	30	
Methyl-tert-Butyl Ether (MTBE)	37.6	2.0	ug/L	40.0		93.9	75-125	13.2	30	
Toluene	18.6	0.50	ug/L	20.0		92.8	75-125	1.55	30	
o-Xylene	20.6	0.50	ug/L	20.0		103	75-125	2.68	30	
m,p-Xylenes	37.5	1.0	ug/L	40.0		93.7	75-125	4.36	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	46.8		ug/L	50.0		93.7	70-140			
<i>Surrogate: Dibromofluoromethane</i>	52.3		ug/L	50.0		105	70-140			
<i>Surrogate: Toluene-d8</i>	48.8		ug/L	50.0		97.7	70-140			
Duplicate (B0H2610-DUP1)				Source: 0H24008-01 Prepared & Analyzed: 08/26/20						

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: A5333708
Date Received: 08/24/20
Date Reported: 09/08/20

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 B0H2610 - *** DEFAULT PREP ***</i>										
Duplicate (B0H2610-DUP1) Continued Source: 0H24008-01 Prepared & Analyzed: 08/26/20										
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	
<i>Surrogate: 4-Bromofluorobenzene</i>	46.0		ug/L	50.0		92.1	70-140			
<i>Surrogate: Dibromofluoromethane</i>	49.7		ug/L	50.0		99.4	70-140			
<i>Surrogate: Toluene-d8</i>	48.0		ug/L	50.0		95.9	70-140			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B0H2613 - *** DEFAULT PREP ***</i>										
Blank (B0H2613-BLK1) Prepared & Analyzed: 08/26/20										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	43.8		ug/L	50.0		87.5	70-130			
LCS (B0H2613-BS1) Prepared & Analyzed: 08/26/20										
Gasoline Range Organics (GRO)	460	20	ug/L	500		92.1	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	56.8		ug/L	50.0		114	70-130			
LCS Dup (B0H2613-BSD1) Prepared & Analyzed: 08/26/20										
Gasoline Range Organics (GRO)	470	20	ug/L	500		94.1	75-125	2.17	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	51.6		ug/L	50.0		103	70-130			
Duplicate (B0H2613-DUP1) Source: 0H24009-01 Prepared & Analyzed: 08/26/20										
Gasoline Range Organics (GRO)	49.5	20	ug/L		50.3			1.66	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	45.6		ug/L	50.0		91.2	70-130			
GRO in Vapor as Hexane - Quality Control										
<i>Batch B0H2613 - *** DEFAULT PREP ***</i>										
Blank (B0H2613-BLK1) Prepared & Analyzed: 08/26/20										
GRO as Hexane	<4.9	4.9	ppmv							
Duplicate (B0H2613-DUP1) Source: 0H24009-01 Prepared & Analyzed: 08/26/20										

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: A5333708
Date Received: 08/24/20
Date Reported: 09/08/20

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 B0H2613 - *** DEFAULT PREP ***</i>										
Duplicate (B0H2613-DUP1) Continued Source: 0H24009-01 Prepared & Analyzed: 08/26/20										
GRO as Hexane	9.04	4.9	ppmv		9.19			1.66	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: A5333708
Date Received: 08/24/20
Date Reported: 09/08/20

Special Notes

A handwritten signature in black ink, appearing to be 'VA' or similar, written over a horizontal line.

Viorel Vasile
Operations Manager



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

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

21101

Client: The Source Group, Inc. **Project Name / No.:** DFSP - Norwalk / 091-NDLA **Sampler's Name:** Glenn Androska
Project Manager: Neil Irish **Site Address:** 15306 Norwalk Blvd **Sampler's Signature:** *Glenn Androska*
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 ④ = 72 Hour Rush
- ② = 24 Hour Rush ⑤ = 5 Day Rush
- ③ = 48 Hour Rush X = 10 Working Days (Standard TAT)

Client I.D.	Date	Time	Sample Matrix	No. of Cont	ANALYSIS REQUESTED (Test Name)					Special Instructions
					Total VOCs Gas 8019	Total VOCs Hexane 8015	BTEX/MTBE 8260B	Please enter the TAT Turnaround Codes ** below		
Trunkline#1 (East)	8-24-20	0933	Air	1	✓	✓	✓	✓		VOC's reported as
Trunkline#2 (South)	"	0938	Air	1	✓	✓	✓			TPH and Hexane
										Detection limit of 75
										ppm for Hexane
										and 0.15 ppm for
										Benzene

PRIORITY
SHIP
15%
RUSH
9/25/20
DATE

Relinquished by	Date	Time	Received by
<i>Glenn Androska</i>	8-24-20	1230	<i>R</i>
<i>Glenn Androska</i>	8/24/20	1524	<i>Glenn Androska</i>
Relinquished by	Date	Time	Received by
<i>Glenn Androska</i>	8/24/20	1524	<i>Glenn Androska</i>

A9777706/CH210

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

September 21, 2020

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5333747 / 0I14021**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 09/14/20 15:17 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', written in a cursive style.

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: A5333747
Date Received: 09/14/20
Date Reported: 09/21/20

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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GRO in Vapor as Hexane

Trunkline#3(Central S)	0I14021-01	Vapor	5	09/14/20 10:08	09/14/20 15:17
Trunkline#4(Central E)	0I14021-02	Vapor	5	09/14/20 10:04	09/14/20 15:17
Trunkline#5(Central W)	0I14021-03	Vapor	5	09/14/20 10:02	09/14/20 15:17

VOCs BTEX/MTBE Vapor GC/MS

Trunkline#3(Central S)	0I14021-01	Vapor	5	09/14/20 10:08	09/14/20 15:17
Trunkline#4(Central E)	0I14021-02	Vapor	5	09/14/20 10:04	09/14/20 15:17
Trunkline#5(Central W)	0I14021-03	Vapor	5	09/14/20 10:02	09/14/20 15:17

VOCs Gasoline Range Organics Vapor

Trunkline#3(Central S)	0I14021-01	Vapor	5	09/14/20 10:08	09/14/20 15:17
Trunkline#4(Central E)	0I14021-02	Vapor	5	09/14/20 10:04	09/14/20 15:17
Trunkline#5(Central W)	0I14021-03	Vapor	5	09/14/20 10:02	09/14/20 15:17

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333747
Date Received: 09/14/20
Date Reported: 09/21/20
Sampled: 09/14/20
Prepared: 09/16/20
Analyzed: 09/16/20

Trunkline#3(Central S)

0114021-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	37	ug/L	0.50	12	ppmv	0.16
Ethylbenzene	4.4	ug/L	0.50	1.0	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	3.9	ug/L	0.50	1.0	ppmv	0.13
o-Xylene	4.0	ug/L	0.50	0.92	ppmv	0.12
m,p-Xylenes	11	ug/L	1.0	2.5	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	89.5 %	70-140
Dibromofluoromethane	96.7 %	70-140
Toluene-d8	88.5 %	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: A5333747
Date Received: 09/14/20
Date Reported: 09/21/20
Sampled: 09/14/20
Prepared: 09/16/20
Analyzed: 09/16/20

Trunkline#4(Central E)

0114021-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	4.8	ug/L	0.50	1.5	ppmv	0.16
Ethylbenzene	3.2	ug/L	0.50	0.74	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	4.3	ug/L	0.50	1.1	ppmv	0.13
o-Xylene	5.3	ug/L	0.50	1.2	ppmv	0.12
m,p-Xylenes	12	ug/L	1.0	2.8	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	88.2 %	70-140
Dibromofluoromethane	91.9 %	70-140
Toluene-d8	91.0 %	70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333747
Date Received: 09/14/20
Date Reported: 09/21/20
Sampled: 09/14/20
Prepared: 09/16/20
Analyzed: 09/16/20

Trunkline#5(Central W)

0114021-03 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	3.0	ug/L	0.50	0.94	ppmv	0.16
Ethylbenzene	0.59	ug/L	0.50	0.14	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	90.5 %	70-140
Dibromofluoromethane	88.0 %	70-140
Toluene-d8	93.0 %	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: 100
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5333747
Date Received: 09/14/20
Date Reported: 09/21/20
Sampled: 09/14/20
Prepared: 09/16/20
Analyzed: 09/16/20

Trunkline#3(Central S)

0114021-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	58000	ug/L	20	14000	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		111 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 100
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5333747
Date Received: 09/14/20
Date Reported: 09/21/20
Sampled: 09/14/20
Prepared: 09/17/20
Analyzed: 09/17/20

Trunkline#4(Central E)

0114021-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	45000	ug/L	20	11000	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: 5
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5333747
Date Received: 09/14/20
Date Reported: 09/21/20
Sampled: 09/14/20
Prepared: 09/16/20
Analyzed: 09/16/20

Trunkline#5(Central W)

0114021-03 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	2500	ug/L	20	610	ppmv	4.9
Surrogates		%REC				%REC Limits
a,a,a-Trifluorotoluene		103 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333747
Date Received: 09/14/20
Date Reported: 09/21/20
Units: ppmv

Date Sampled:	09/14/20	09/14/20	09/14/20	
Date Prepared:	09/16/20	09/17/20	09/16/20	
Date Analyzed:	09/16/20	09/17/20	09/16/20	
AA ID No:	0114021-01	0114021-02	0114021-03	
Client ID No:	Trunkline#3(Centr al S)	Trunkline#4(Centra l E)	Trunkline#5(Centr al W)	
Matrix:	Vapor	Vapor	Vapor	
Dilution Factor:	100	100	5	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	11000	8200	460	4.9
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333747
Date Received: 09/14/20
Date Reported: 09/21/20

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 B011617 - *** DEFAULT PREP ***</i>										
Blank (B011617-BLK1) Prepared & Analyzed: 09/16/20										
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>	51.6		ug/L	50.0		103	70-140			
<i>Surrogate: Dibromofluoromethane</i>	50.0		ug/L	50.0		100	70-140			
<i>Surrogate: Toluene-d8</i>	47.1		ug/L	50.0		94.1	70-140			
LCS (B011617-BS1) Prepared & Analyzed: 09/16/20										
Benzene	22.0	0.50	ug/L	20.0		110	75-125			
Ethylbenzene	21.1	0.50	ug/L	20.0		105	75-125			
Methyl-tert-Butyl Ether (MTBE)	39.4	2.0	ug/L	40.0		98.5	75-125			
Toluene	19.6	0.50	ug/L	20.0		97.9	75-125			
o-Xylene	19.8	0.50	ug/L	20.0		99.0	75-125			
m,p-Xylenes	40.1	1.0	ug/L	40.0		100	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	51.2		ug/L	50.0		102	70-140			
<i>Surrogate: Dibromofluoromethane</i>	50.1		ug/L	50.0		100	70-140			
<i>Surrogate: Toluene-d8</i>	48.7		ug/L	50.0		97.3	70-140			
LCS Dup (B011617-BSD1) Prepared & Analyzed: 09/16/20										
Benzene	22.0	0.50	ug/L	20.0		110	75-125	0.0454	30	
Ethylbenzene	20.5	0.50	ug/L	20.0		102	75-125	2.79	30	
Methyl-tert-Butyl Ether (MTBE)	40.0	2.0	ug/L	40.0		99.9	75-125	1.39	30	
Toluene	19.0	0.50	ug/L	20.0		95.0	75-125	3.06	30	
o-Xylene	19.2	0.50	ug/L	20.0		96.2	75-125	2.87	30	
m,p-Xylenes	39.0	1.0	ug/L	40.0		97.4	75-125	2.83	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	50.5		ug/L	50.0		101	70-140			
<i>Surrogate: Dibromofluoromethane</i>	50.3		ug/L	50.0		101	70-140			
<i>Surrogate: Toluene-d8</i>	48.2		ug/L	50.0		96.3	70-140			
Duplicate (B011617-DUP1) Source: 0114019-01 Prepared & Analyzed: 09/16/20										

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: A5333747
Date Received: 09/14/20
Date Reported: 09/21/20

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 B011617 - *** DEFAULT PREP ***</i>										
Duplicate (B011617-DUP1) Continued Source: 0114019-01 Prepared & Analyzed: 09/16/20										
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	
<i>Surrogate: 4-Bromofluorobenzene</i>	55.0		ug/L	50.0		110	70-140			
<i>Surrogate: Dibromofluoromethane</i>	54.2		ug/L	50.0		108	70-140			
<i>Surrogate: Toluene-d8</i>	48.3		ug/L	50.0		96.6	70-140			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B011616 - *** DEFAULT PREP ***</i>										
Blank (B011616-BLK1) Prepared & Analyzed: 09/16/20										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	49.0		ug/L	50.0		98.0	70-130			
LCS (B011616-BS1) Prepared & Analyzed: 09/16/20										
Gasoline Range Organics (GRO)	467	20	ug/L	500		93.4	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	53.2		ug/L	50.0		106	70-130			
LCS Dup (B011616-BSD1) Prepared & Analyzed: 09/16/20										
Gasoline Range Organics (GRO)	479	20	ug/L	500		95.9	75-125	2.65	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	54.8		ug/L	50.0		110	70-130			
<i>Batch B011722 - *** DEFAULT PREP ***</i>										
Blank (B011722-BLK1) Prepared & Analyzed: 09/17/20										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	44.7		ug/L	50.0		89.5	70-130			
LCS (B011722-BS1) Prepared & Analyzed: 09/17/20										
Gasoline Range Organics (GRO)	421	20	ug/L	500		84.1	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	51.9		ug/L	50.0		104	70-130			
LCS Dup (B011722-BSD1) Prepared & Analyzed: 09/17/20										

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: A5333747
Date Received: 09/14/20
Date Reported: 09/21/20

Analyte	Result	Reporting 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 B011722 - *** DEFAULT PREP ***</i>										
LCS Dup (B011722-BSD1) Continued										
Prepared & Analyzed: 09/17/20										
Gasoline Range Organics (GRO)	446	20	ug/L	500		89.1	75-125	5.80	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	53.9		ug/L	50.0		108	70-130			
Duplicate (B011722-DUP1)										
Source: 0116012-01 Prepared & Analyzed: 09/17/20										
Gasoline Range Organics (GRO)	994	20	ug/L						30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	47.9		ug/L	50.0		95.8	70-130			
GRO in Vapor as Hexane - Quality Control										
<i>Batch B011616 - *** DEFAULT PREP ***</i>										
Blank (B011616-BLK1)										
Prepared & Analyzed: 09/16/20										
GRO as Hexane	<4.9	4.9	ppmv							
<i>Batch B011722 - *** DEFAULT PREP ***</i>										
Blank (B011722-BLK1)										
Prepared & Analyzed: 09/17/20										
GRO as Hexane	<4.9	4.9	ppmv							
Duplicate (B011722-DUP1)										
Source: 0116012-01 Prepared & Analyzed: 09/17/20										
GRO as Hexane	181	4.9	ppmv						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: A5333747
Date Received: 09/14/20
Date Reported: 09/21/20

Special Notes

A handwritten signature in black ink, appearing to be 'AV' or similar initials.

Viorel Vasile
Operations Manager



ENTHALPY
ANALYTICAL

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 431328
Report Level: II
Report Date: 08/07/2020

Analytical Report *prepared for:*

Imedla Morales
APEX - Signal Hill
1962 Freeman Avenue
Signal Hill, CA 90755

Project: PERMIT #22453_WW - WW

Authorized for release by:

Diane Galvan, Project Manager
714-771-9928
diane.galvan@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, CDC ELITE
Member

Sample Summary

Imedia Morales
APEX - Signal Hill
1962 Freeman Avenue
Signal Hill, CA 90755

Lab Job #: 431328
Project No: PERMIT #22453_WW
Location: WW
Date Received: 07/24/20

Sample ID	Lab ID	Collected	Matrix
SURGE TANK_07-24-20	431328-001	07/24/20 09:25	Water

43 | 329

CHAIN OF CUSTODY RECORD
 931 W. Barkley, Orange, CA 92868
 Phone: (714) 771-6900 Fax: (714) 771-9833
 Billing: Enthaly Analytical
 c/o Montrose Environmental Group Inc.
 P.O. Box 741137, Los Angeles, CA 90074-1137

ENTHALPY ANALYTICAL
 Lab Number: 15881
 Client ID: 1 of 1
 Page: 1 of 1

Preservative: 1=Na2S2O3 2=HCl 3=HNO3 4=H2SO4 5=NaOH 6=Other
 Matrix: A=Air DW=Drinking Water FL=Food Liquid FS=Food Solid
 L=Liquid PP=Pure Product S=Solid SW=Swab W=Water WP=Wipe O=Other

****Turn around time will start the following day
 for samples received at the Lab after 3pm****

CUSTOMER INFORMATION
 Company: APEX
 Report To: Imelda Morales
 Email: imelda.morales@apexcos.com, imelda.androsko@apexcos.com
 Address: 1962 Freeman Ave
 Signal Hill, CA 90755
 Phone: 562-597-1055 Fax:

PROJECT INFORMATION
 Name: WW
 Number: Permit #22453
 Address: 15306 Norwalk Blvd
 Norwalk, CA 90650

Turn Around Time
 Standard X
 72 Hours
 48 Hours
 24 Hours
 Same Day

Sample ID	Date	Time	Matrix	Container	Pres.	Global ID:	P.O. #:	Sampled By:
1 Surge Tank_07-24-20	7-24-20	0925	WW	1-L, 3-40ml	4			
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								

Meter Readings	pH	Temp.	Time
1) Begin:			
End:			
2) Begin:			
End:			
3) Begin:			
End:			
4) Begin:			
End:			

Relinquished By:	Received By:	Relinquished By:	Received By:
Blum Ondak	Elizabeth Rainich	Blum Ondak	Elizabeth Rainich
Glenn Androsko	Elizabeth Rainich	Glenn Androsko	Elizabeth Rainich
Date: 7-24-20	Date: 7-24-20	Date: 7-24-20	Date: 7-24-20
Time: 1350	Time: 13:50	Time: 1350	Time: 13:50



Test Instruction & Comments

147 / 515



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: ApexProject: WWDate Received: 7/24/2020Sampler's Name Present: Yes No

Section 2

Sample(s) received in a cooler? Yes, How many? 1 No (skip section 2) Sample Temp (°C) (No Cooler): _____Sample Temp (°C), One from each cooler: #1: 14.3 #2: _____ #3: _____ #4: _____*(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)*

Shipping Information: _____

Section 3

Was the cooler packed with: Ice Ice Packs Bubble Wrap Styrofoam
 Paper None Other _____Cooler Temp (°C): #1: 5.5 #2: _____ #3: _____ #4: _____

Section 4

	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✓
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?	✓		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?		✓	
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

6 vials, 1 amber received.

Section 6

For discrepancies, how was the Project Manager notified? Verbal PM Initials: _____ Date/Time: _____ Email (email sent to/on): _____ / _____

Project Manager's response: _____

Completed By: Date: 07/24/20Enthalpy Analytical, a subsidiary of Montrose Environmental Group, Inc.
931 W. Barkley Ave, Orange, CA 92868 • T: (714) 771-6900 • F: (714) 538-1209

www.enthalpy.com/socal

Sample Acceptance Checklist – Rev 4, 8/8/2017

Analysis Results for 431328

Imedia Morales
 APEX - Signal Hill
 1962 Freeman Avenue
 Signal Hill, CA 90755

Lab Job #: 431328
 Project No: PERMIT #22453_WW
 Location: WW
 Date Received: 07/24/20

Sample ID: SURGE TANK_07-24-20	Lab ID: 431328-001	Collected: 07/24/20 09:25
Matrix: Water		

431328-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 624									
Prep Method: EPA 624									
MTBE	ND		ug/L	5.0	1	249913	07/28/20	07/28/20	JTB
Isopropyl Ether (DIPE)	ND		ug/L	5.0	1	249913	07/28/20	07/28/20	JTB
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	1	249913	07/28/20	07/28/20	JTB
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	1	249913	07/28/20	07/28/20	JTB
tert-Butyl Alcohol (TBA)	18		ug/L	10	1	249913	07/28/20	07/28/20	JTB
m,p-Xylenes	ND		ug/L	10	1	249913	07/28/20	07/28/20	JTB
o-Xylene	ND		ug/L	5.0	1	249913	07/28/20	07/28/20	JTB
Benzene	6.2		ug/L	5.0	1	249913	07/28/20	07/28/20	JTB
Toluene	ND		ug/L	5.0	1	249913	07/28/20	07/28/20	JTB
Ethylbenzene	ND		ug/L	5.0	1	249913	07/28/20	07/28/20	JTB
Xylene (total)	ND		ug/L	5.0	1	249913	07/28/20	07/28/20	JTB
Surrogates			Limits						
Dibromofluoromethane	96%		%REC	70-140	1	249913	07/28/20	07/28/20	JTB
1,2-Dichloroethane-d4	101%		%REC	70-140	1	249913	07/28/20	07/28/20	JTB
Toluene-d8	104%		%REC	70-140	1	249913	07/28/20	07/28/20	JTB
Bromofluorobenzene	81%		%REC	70-140	1	249913	07/28/20	07/28/20	JTB
Method: EPA 8015B									
Prep Method: EPA 5030B									
TPH Gasoline	150		ug/L	50	1	249861	07/27/20	07/27/20	EMW
Surrogates			Limits						
Bromofluorobenzene (FID)	132%		%REC	60-140	1	249861	07/27/20	07/27/20	EMW
Method: EPA 8015B									
Prep Method: EPA 3510C									
Diesel C10-C28	1.0		mg/L	0.094	0.94	249919	07/27/20	07/28/20	JXS
Surrogates			Limits						
n-Triacontane	90%		%REC	35-130	0.94	249919	07/27/20	07/28/20	JXS

ND Not Detected

Batch QC

Type: Lab Control Sample	Lab ID: QC878364	Batch: 249861
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 5030B

QC878364 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
TPH Gasoline	500.5	500.0	ug/L	100%		70-130
Surrogates						
Bromofluorobenzene (FID)	256.0	200.0	ug/L	128%		60-140

Type: Matrix Spike	Lab ID: QC878365	Batch: 249861
Matrix (Source ID): Water (431210-002)	Method: EPA 8015B	Prep Method: EPA 5030B

QC878365 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
TPH Gasoline	501.5	ND	500.0	ug/L	100%		70-130	1
Surrogates								
Bromofluorobenzene (FID)	258.0		200.0	ug/L	129%		60-140	1

Type: Matrix Spike Duplicate	Lab ID: QC878366	Batch: 249861
Matrix (Source ID): Water (431210-002)	Method: EPA 8015B	Prep Method: EPA 5030B

QC878366 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
TPH Gasoline	498.0	ND	500.0	ug/L	99%		70-130	1	30	1
Surrogates										
Bromofluorobenzene (FID)	258.0		200.0	ug/L	129%		60-140			1

Type: Blank	Lab ID: QC878367	Batch: 249861
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 5030B

QC878367 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
TPH Gasoline	ND		ug/L	50	07/27/20	07/27/20
Surrogates						
Bromofluorobenzene (FID)	122%		%REC	60-140	07/27/20	07/27/20

Batch QC

Type: Blank	Lab ID: QC878515	Batch: 249913
Matrix: Water	Method: EPA 624	Prep Method: EPA 624

QC878515 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
MTBE	ND		ug/L	5.0	07/27/20	07/27/20
Isopropyl Ether (DIPE)	ND		ug/L	5.0	07/27/20	07/27/20
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	07/27/20	07/27/20
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	07/27/20	07/27/20
tert-Butyl Alcohol (TBA)	ND		ug/L	10	07/27/20	07/27/20
m,p-Xylenes	ND		ug/L	10	07/27/20	07/27/20
o-Xylene	ND		ug/L	5.0	07/27/20	07/27/20
Benzene	ND		ug/L	5.0	07/27/20	07/27/20
Toluene	ND		ug/L	5.0	07/27/20	07/27/20
Ethylbenzene	ND		ug/L	5.0	07/27/20	07/27/20
Xylene (total)	ND		ug/L	5.0	07/27/20	07/27/20
Surrogates				Limits		
Dibromofluoromethane	97%		%REC	70-140	07/27/20	07/27/20
1,2-Dichloroethane-d4	102%		%REC	70-140	07/27/20	07/27/20
Toluene-d8	104%		%REC	70-140	07/27/20	07/27/20
Bromofluorobenzene	88%		%REC	70-140	07/27/20	07/27/20

Type: Lab Control Sample	Lab ID: QC878516	Batch: 249913
Matrix: Water	Method: EPA 624	Prep Method: EPA 624

QC878516 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
MTBE	44.89	50.00	ug/L	90%		73-120
1,1-Dichloroethene	44.62	50.00	ug/L	89%		80-135
Benzene	44.15	50.00	ug/L	88%		80-120
Trichloroethene	44.82	50.00	ug/L	90%		79-120
Toluene	45.12	50.00	ug/L	90%		80-120
Chlorobenzene	44.59	50.00	ug/L	89%		80-120
Surrogates						
Dibromofluoromethane	46.20	50.00	ug/L	92%		70-140
1,2-Dichloroethane-d4	47.87	50.00	ug/L	96%		70-140
Toluene-d8	53.15	50.00	ug/L	106%		70-140
Bromofluorobenzene	40.73	50.00	ug/L	81%		70-140

Batch QC

Type: Lab Control Sample Duplicate	Lab ID: QC878517	Batch: 249913
Matrix: Water	Method: EPA 624	Prep Method: EPA 624

QC878517 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
MTBE	43.70	50.00	ug/L	87%		73-120	3	20
1,1-Dichloroethene	44.36	50.00	ug/L	89%		80-135	1	20
Benzene	43.61	50.00	ug/L	87%		80-120	1	20
Trichloroethene	45.81	50.00	ug/L	92%		79-120	2	20
Toluene	45.22	50.00	ug/L	90%		80-120	0	20
Chlorobenzene	44.88	50.00	ug/L	90%		80-120	1	22
Surrogates								
Dibromofluoromethane	46.40	50.00	ug/L	93%		70-140		
1,2-Dichloroethane-d4	47.67	50.00	ug/L	95%		70-140		
Toluene-d8	52.72	50.00	ug/L	105%		70-140		
Bromofluorobenzene	40.41	50.00	ug/L	81%		70-140		

Type: Blank	Lab ID: QC878534	Batch: 249919
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC878534 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Diesel C10-C28	ND		mg/L	0.10	07/27/20	07/28/20
Surrogates				Limits		
n-Triacontane	67%		%REC	35-130	07/27/20	07/28/20

Type: Lab Control Sample	Lab ID: QC878535	Batch: 249919
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC878535 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Diesel C10-C28	0.8182	1.000	mg/L	82%		42-120
Surrogates						
n-Triacontane	0.01986	0.02000	mg/L	99%		35-130

Type: Lab Control Sample Duplicate	Lab ID: QC878536	Batch: 249919
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC878536 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Diesel C10-C28	0.6381	1.000	mg/L	64%		42-120	25	36
Surrogates								
n-Triacontane	0.01818	0.02000	mg/L	91%		35-130		

ND Not Detected

APPENDIX B

LNAPL HAZARDOUS WASTE MANIFEST

Please print or type.

466863-1
CT 7.0 15.5

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number CA8971524360	2. Page 1 of 1	3. Emergency Response Phone (310) 241-2833	4. Manifest Tracking Number 013708622 FLE			
5. Generator's Name and Mailing Address Defense Logistics Agency Installation Support for Energy 3171 North Gaffey St. Attn: Todd Williams San Pedro, CA 90731 (310) 241-2834				Generator's Site Address (if different than mailing address) DFSP Norwalk 15306 Norwalk Blvd. Norwalk, CA 90650				
6. Transporter 1 Company Name Nieto and Sons Trucking, Inc.				U.S. EPA ID Number CAT080016116				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address World Oil Recycling 2000 N. Alameda Street Compton, CA 90222 (310) 537-7100				U.S. EPA ID Number CAT080013352				
Facility's Phone:								
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN1993, Flammable Liquid, n.o.s., 3, PGI (contains jet fuel)			001 TT		70	G	133
	2. THIS WASTE STREAM HAS BEEN QUALIFIED FOR RECYCLING/TREATMENT AT THE DeMENNO/KERDOON DBA WORLD OIL RECYCLING FACILITY IN COMPTON, CALIFORNIA. THIS FACILITY HAS THE NECESSARY PERMITS TO RECEIVE YOUR WASTE STREAM AS QUALIFIED. OUR EPA NUMBER IS CAT080013352							
	3.							
	4.							
14. Special Handling Instructions and Additional Information ERG# 128 / Jet Fuels & Groundwater SGI/APEX Contact: Glenn Androska (714) 608-1089								BESI PO # 320529 Profile # 466863
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offorer's Printed/Typed Name Todd Williams				Signature <i>[Signature]</i>		Month Day Year 07 10 20		
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 Richard Duran				Signature <i>[Signature]</i>		Month Day Year 07 10 20		
Transporter 2 Printed/Typed Name				Signature		Month Day Year		
18. Discrepancy								
18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Reconciled quantity 53 with Steve of Nieto Manifest Reference Number 72020								
18b. Alternate Facility (or Generator) U.S. EPA ID Number								
Facility's Phone:								
18c. Signature of Alternate Facility (or Generator) 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 SOPHAL P. STAY				Signature <i>[Signature]</i>		Month Day Year 07 10 20		

DESIGNATED FACILITY TO GENERATOR