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April 28, 2022

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Los Angeles, California 90013

Dear Mr. Cho:

Enclosed is one electronic copy of the *Remediation Status Report – First Quarter 2022, 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](mailto:carol.devier-heeny@dla.mil).

Sincerely,

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Enclosure  
As stated

cc:  
Neil Irish, P.G., Principal Geologist, SGI/Apex

**REMEDIATION STATUS REPORT – FIRST QUARTER 2022**  
**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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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., a subsidiary of Apex Companies, LLC (SGI-Apex) presents this report to summarize remediation system operations during this reporting period (First Quarter 2022 – January 1, 2022 through March 31, 2022) 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, passive skimming, absorbent socks, and active pumping using a portable skimming pump or vacuum truck. The above ground treatment of contaminated vadose zone soils excavated at the Site was conducted from April 2015 until March 2017 (see SGI-Apex'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 two coal-based carbon (GAC) vessels in series (750-pound GAC-1 and 2,000-pound GAC-2). The final two GAC vessels (2,000-lb GAC-3 and 1,500-lb GAC-4) were removed from the treatment process during the Third Quarter 2021 and placed as standby vessels. The groundwater is then discharged to the sanitary sewer.

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

Biosparge wells for hydrocarbon removal from dissolved-phase subsurface impacts are located throughout the Site. The biosparge system was off-line pending completion of soil cleanup activities per SGI-Apex's January 2018 *Shallow Soil Closure Report*. System recommissioning work was completed during Fourth Quarter 2018 in accordance with SGI-Apex'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.

Biosparge system influence testing was performed during the Fourth Quarter 2021 and is summarized in SGI-Apex's February 11, 2022 *Remediation Status Report – Fourth Quarter 2021*.

Subsequently, biosparge system optimization was performed during the Fourth Quarter 2021. Biosparge trunkline cycles were adjusted at the control panel to alternate between four groups rather than three, increasing pressure and flow to each well. Follow up monitoring is planned to verify system effectiveness and allow for any necessary adjustments to injection rates and/or cycling times.

### 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-Apex'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, 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-Apex'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 in March 2019, shortly after the temporary VES was shut down. 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.

The thermal oxidizer VES operated this quarter in catalytic mode. Upon installation of a new catalytic cell on March 26, 2021, soil vapors from the thermal oxidizer VES knockout tank are heated to a minimum temperature of 750°F prior to atmospheric discharge. 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 central area 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 distribution of floating product on groundwater as recorded during the second semiannual 2021 monitoring event is presented in Figure 3.

### 1.2.5 Above Ground Soil Treatment

Per SGI-Apex'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-Apex'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 is conducted semiannually and quarterly (chemical oxygen demand [COD] and suspended solids [SS] only) since January 1, 2020.

Wells GMW-31 and GW-14R, which have had no measurable LNAPL since December 2019, were connected to the GWETS on March 11, 2020 and began operation May 14, 2020 and May 18, 2020, respectively.

### 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-Apex'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 decreased allowing for the installation of the catalytic cell on March 26, 2021. Maximum gasoline range organic (GRO), benzene and MTBE concentrations this period are 2,500 micrograms per liter ( $\mu\text{g/L}$ ), 3.6  $\mu\text{g/L}$  and non-detect (ND)  $<1.0 \mu\text{g/L}$ , respectively. Maximum historic levels for these constituents were previously 14,000  $\mu\text{g/L}$  for GRO (October/December 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 throughout the central and eastern areas 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 eastern area, central area, and southern area

of the Site (Figure 2) in accordance with SGI-Apex'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 that time, the system consisted of six pneumatically activated product removal pumps deployed in key wells located in the central area 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 9,957 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).

Based on field photoionization detector (PID) readings (Tables 9B through 9D) and previous quarters laboratory concentrations (Table 10), the catalytic cell for the thermal oxidizer VES was installed on March 26, 2021. Wells in the southern area were connected to the carbon VES system on March 19, 2021.

The total mass of VOCs removed via the carbon and the thermal oxidizer extraction systems during this period was approximately 15,425 pounds (619 pounds via the carbon VES and 14,806 pounds via the thermal oxidizer VES). An estimated 2,987,121 pounds have been removed since April 1996 (Table 3C) via the carbon VES and approximately 346,662 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; and RW-2, RW-7, RW-8, RW-6, RW-15, RW-16, and RW-17 were brought online on April 16, 2020. 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-22, TFR-29 and RTF-18-E (Tables 7A, 7B, 7N, 7P and 7R).

A total of approximately 32 gallons (216 pounds) of LNAPL was removed from the Site during this quarter, and an estimated 10,474 gallons (70,760 pounds) of LNAPL has been removed since January 2014.

#### **3.4.1 LNAPL Removal Via Bailing, Skimming and Absorbent Socks**

Approximately 3.5 gallons (23.9 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, GMW-68 and RTF-18-E during this reporting period (Table 7A, 7B and 7R).

#### **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 28 gallons (192 pounds) of LNAPL was pumped from wells TFR-22 and TFR-29 during this reporting period (Tables 7N and 7P).

LNAPL gauging results along with cumulative mass and volume removal estimates are summarized in Tables 7E through 7W.

#### 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.

SGI-Apex 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 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.

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. Due to insufficient yield, the pump was removed from TFR-29 and an absorbent sock was installed on March 22, 2022. Currently, well TFR-22 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 continue to run in the new trunkline configuration and adjusted run time schedule during the Second Quarter 2022. Biosparge operations will continue to 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.

## 5.0 PLANNED SECOND QUARTER 2022 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 Second Quarter 2022 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-22, located in the central area 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 permanent thermal oxidizer VES operations to cost-effectively process 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 carbon VES .
- Continue to evaluate influent vapor concentrations to the thermal oxidizer VES after installation of the catalytic cell.
- Evaluate converting low concentration HW wells to biovent wells for bioremediation.
- Continue minimum weekly maintenance and monitoring of the 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.
- Evaluate installation of additional horizontal treatment wells (vapor extraction and biosparge) in the Eastern 15-acre parcel to target the remaining high concentration impacted areas in preparation for land development by the City of Norwalk.
- Evaluate biosparge trunkline cycling configuration and make adjustments as needed to optimize air delivery to treatment wells located in previously identified “hot-spot” areas.
- Periodically measure pressure in nearby monitoring wells during biosparging operations to verify influence.

Ongoing remediation activities and progress will be described in the *Second Quarter 2022 Remediation Progress Report* to be submitted by August 15, 2022.

## 6.0 LIMITATIONS

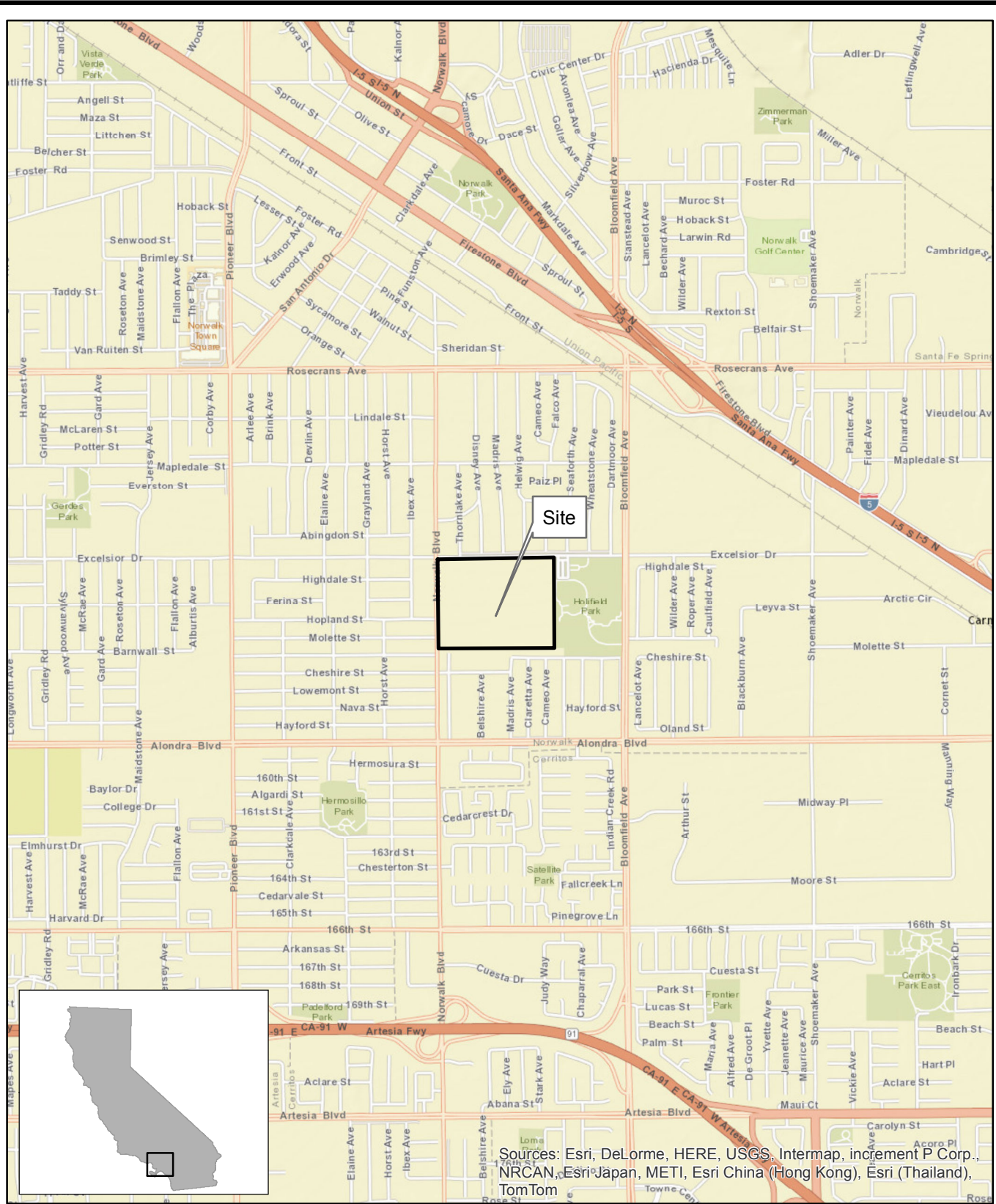
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The presented findings and recommendations in this report are intended to be taken in their entirety to assist DLA and LARWQCB personnel in applying their own professional judgment in making decisions related to the property. SGI-Apex cannot provide conclusions on environmental conditions outside the completed scope of work. SGI-Apex 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

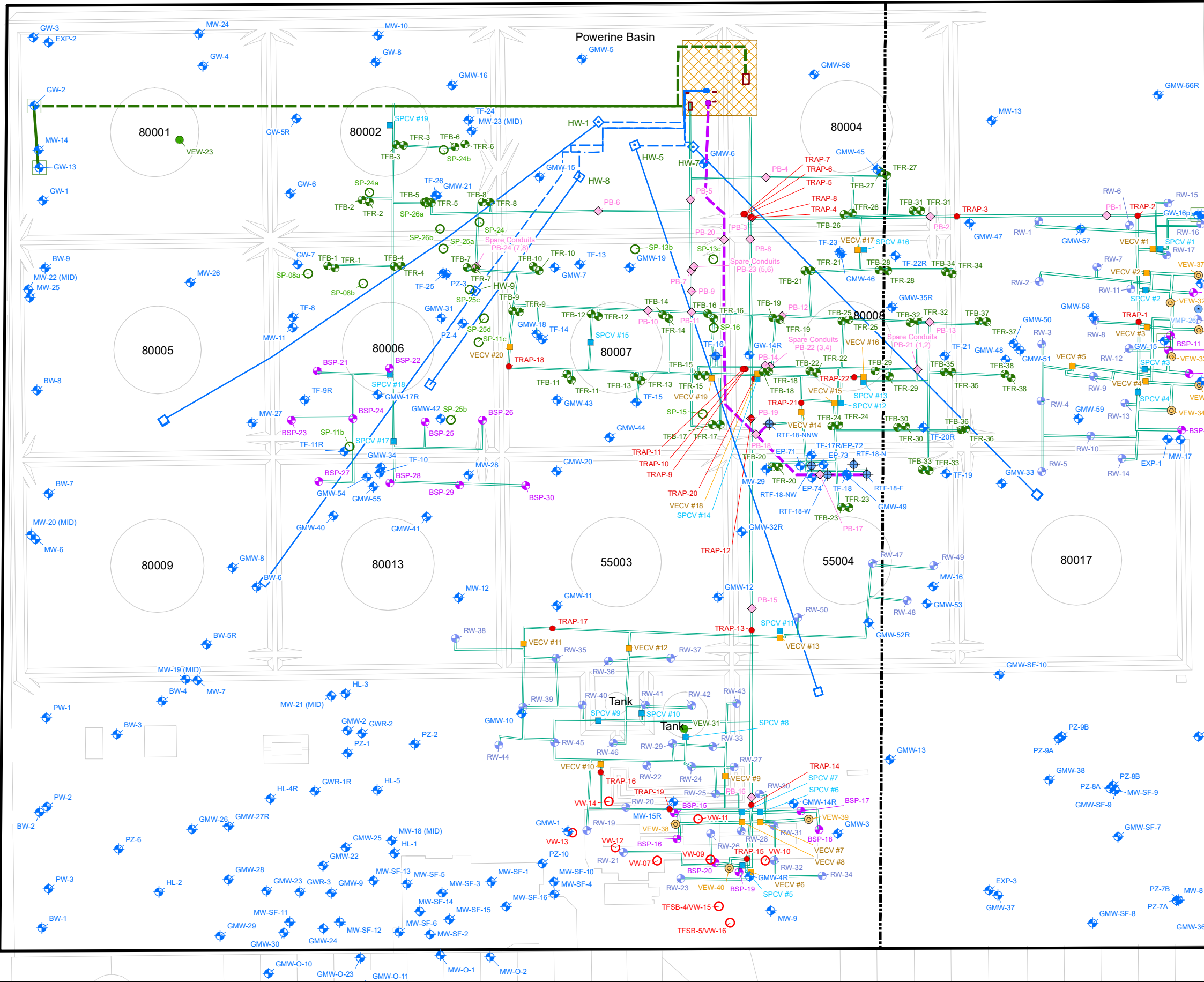
**SITE LOCATION MAP**

FIGURE  
**1**


























Excelsior Dr

Powerline Basin

Norwalk Blvd



**Legend**

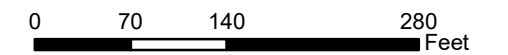
-  Former Above Ground Storage Tanks
-  DFSP Norwalk Border
-  Fence
-  Berm
-  Treatment System Enclosure
-  Below Grade Trenching and Piping to Remediation Wells
-  Existing Horizontal Vapor Extraction Wells
-  Below Grade Groundwater Extraction System Piping
-  Above Grade Groundwater Extraction System 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

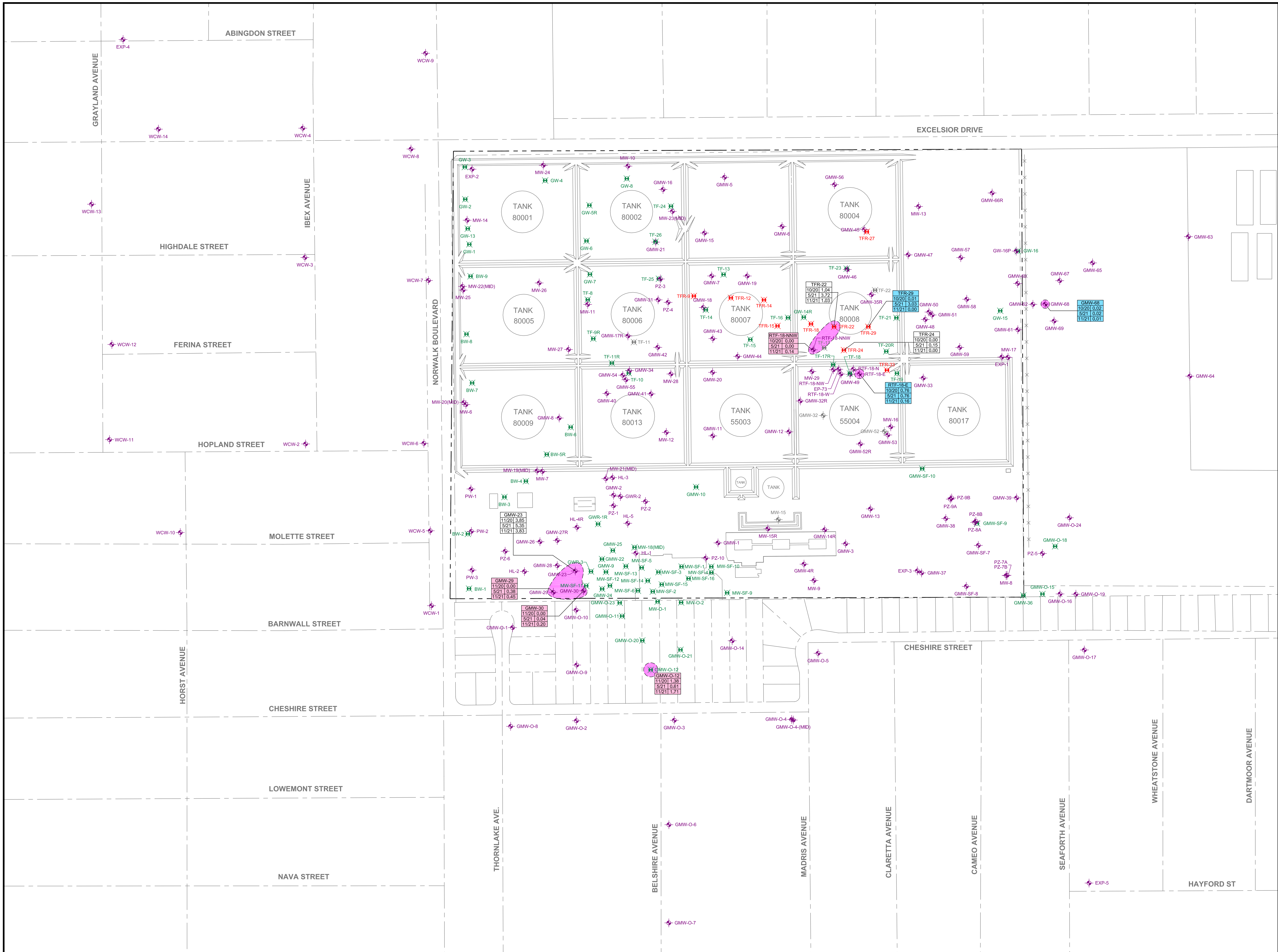


**Site Map Showing All Well and Piping Locations**



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

**Figure**  
**2**

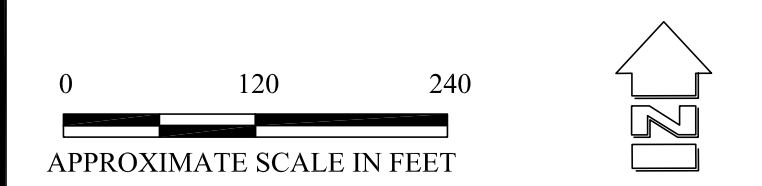


**EXPLANATION:**

- FORMER ABOVEGROUND STORAGE TANKS
  - DFSP NORWALK BORDER
  - GROUNDWATER MONITORING WELL
  - TOTAL FLUIDS RECOVERY WELL
  - WELLS SHOWN IN GREY WERE DECOMMISSIONED BY DLA ENERGY PRIOR TO REMEDIAL EXCAVATION
  - EXTRACTION WELL USED FOR VAPOR, GROUNDWATER, TOTAL FLUIDS, OR FLOATING PRODUCT EXTRACTION
- MEASURED PRODUCT THICKNESS IN FEET FOR THE THREE MOST RECENT SEMIANNUAL EVENTS; WHERE THE DATABOX IS SHOWN IN WHITE, THE MEASURED THICKNESS HAS REMAINED SIMILAR (CHANGE IS LESS THAN 10%) AT THAT LOCATION SINCE THE FALL 2020 SEMIANNUAL MONITORING EVENT, OR THE DATASET SHOWN DOES NOT PROVIDE A BASIS FOR COMPARISON
- WHERE THE DATABOX IS SHOWN IN RED, THE MEASURED PRODUCT THICKNESS HAS INCREASED BY 10% OR MORE AT THAT LOCATION SINCE THE FALL 2020 SEMIANNUAL MONITORING EVENT
- WHERE THE DATABOX IS SHOWN IN BLUE, THE MEASURED PRODUCT THICKNESS HAS DECREASED BY 10% OR MORE AT THAT LOCATION SINCE THE FALL 2020 SEMIANNUAL MONITORING EVENT
- ESTIMATED EXTENT OF MEASURABLE LIGHT NONAQUEOUS PHASE LIQUID (LNAPL, FLOATING PRODUCT) ON GROUNDWATER

**SURVEY NOTES:**

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



DATE: 12/2021	FILE NAME: DFSP-Norwalk-SE2-21.dwg
PROJECT No.: 091-NOR-001	CONTRACT: SPO-600-14-D-5410

**DISTRIBUTION OF FLOATING PRODUCT ON GROUNDWATER  
SECOND SEMIANNUAL 2021  
MONITORING EVENT**

**DFSP NORWALK**  
15306 NORWALK BOULEVARD  
NORWALK, CALIFORNIA

## 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		

**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 80001, AST 55004)	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
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		

**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-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
		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		

**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)	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
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



**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-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

**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	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
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

**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	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  
 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 - January**  
 DFSP, Norwalk  
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	GW-14R Totalizer Reading (gallons)	GMW-31 Totalizer Reading (gallons)	GW-16 Totalizer Reading (gallons)	Groundwater Extracted from Eastern Area (gallons)	Groundwater Extracted from Central Area (gallons)	Discharge Totalizer Reading (gallons)	Groundwater Extracted and Treated (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed <sup>A</sup> (lb)
1/1/22	*		--	--	--	--	--	--	--	--	9,954.95
1/2/22	*		--	--	--	--	--	--	--	--	9,954.97
1/3/22	*		--	--	--	--	--	--	--	--	9,955.00
1/4/22	*		--	--	--	--	--	--	--	--	9,955.03
1/5/22	Technician		1,012,941	563,981	1,652,268	1,652,268	1,576,922	3,194,655	25,382	--	9,955.05
1/6/22	*		--	--	--	--	--	--	--	--	9,955.08
1/7/22	*		--	--	--	--	--	--	--	--	9,955.11
1/8/22	*		--	--	--	--	--	--	--	--	9,955.14
1/9/22	*		--	--	--	--	--	--	--	--	9,955.17
1/10/22	*		--	--	--	--	--	--	--	--	9,955.20
1/11/22	*		--	--	--	--	--	--	--	--	9,955.22
1/12/22	*		--	--	--	--	--	--	--	--	9,955.25
1/13/22	*		--	--	--	--	--	--	--	--	9,955.28
1/14/22	Technician		1,030,683	564,323	1,670,168	1,670,168	1,595,006	3,243,680	49,025	--	9,955.31
1/15/22	*		--	--	--	--	--	--	--	--	9,955.34
1/16/22	*		--	--	--	--	--	--	--	--	9,955.36
1/17/22	*		--	--	--	--	--	--	--	--	9,955.39
1/18/22	*		--	--	--	--	--	--	--	--	9,955.42
1/19/22	Technician	1	1,039,156	564,323	1,679,904	1,679,904	1,603,479	3,272,391	28,711	830	9,955.47
1/20/22	*		--	--	--	--	--	--	--	--	9,955.49
1/21/22	*		--	--	--	--	--	--	--	--	9,955.51
1/22/22	*		--	--	--	--	--	--	--	--	9,955.53
1/23/22	*		--	--	--	--	--	--	--	--	9,955.55
1/24/22	*		--	--	--	--	--	--	--	--	9,955.57
1/25/22	*		--	--	--	--	--	--	--	--	9,955.59
1/26/22	Technician		1,039,180	564,323	1,688,406	1,688,406	1,603,503	3,293,357	20,966	--	9,955.61
1/27/22	*		--	--	--	--	--	--	--	--	9,955.63
1/28/22	*		--	--	--	--	--	--	--	--	9,955.65
1/29/22	*		--	--	--	--	--	--	--	--	9,955.67
1/30/22	*		--	--	--	--	--	--	--	--	9,955.69
1/31/22	*		--	--	--	--	--	--	--	--	9,955.71

Cumulative Groundwater Discharged by the GWETS to Date (gallons)							
Period	January	Quarter 1, 2022	Quarter 2, 2022	Quarter 3, 2022	Quarter 4, 2022	2022 to Date	April 1996 to Date
Volume	138,474	138,474	--	--	--	138,474	81,720,454

Cumulative Mass DRO Removed by the GWETS <sup>A</sup> (lb)			
Period	January	Quarter 1 to Date	April 1996 to Date
Mass	0.79	0.79	9,955.7

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

**Legend / Notes:**

1 = Collected monthly water samples for laboratory analysis.

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

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

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



**TABLE 2B**  
**Groundwater Extraction and Treatment System Operations Summary - February**  
 DFSP, Norwalk  
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	GW-14R Totalizer Reading (gallons)	GMW-31 Totalizer Reading (gallons)	GW-16 Totalizer Reading (gallons)	Groundwater Extracted from Eastern Area (gallons)	Groundwater Extracted from Central Area (gallons)	Discharge Totalizer Reading (gallons)	Groundwater Extracted and Treated (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed <sup>A</sup> (lb)
2/1/22	*		--	--	--	--	--	--	--	--	9,955.73
2/2/22	Technician		1,040,405	564,323	1,701,443	1,701,443	1,604,728	3,313,455	20,098	--	9,955.75
2/3/22	*		--	--	--	--	--	--	--	--	9,955.77
2/4/22	*		--	--	--	--	--	--	--	--	9,955.78
2/5/22	*		--	--	--	--	--	--	--	--	9,955.80
2/6/22	*		--	--	--	--	--	--	--	--	9,955.82
2/7/22	*		--	--	--	--	--	--	--	--	9,955.84
2/8/22	Technician		1,040,405	564,323	1,712,296	1,712,296	1,604,728	3,327,822	14,367	--	9,955.85
2/9/22	*		--	--	--	--	--	--	--	--	9,955.86
2/10/22	*		--	--	--	--	--	--	--	--	9,955.86
2/11/22	*		--	--	--	--	--	--	--	--	9,955.87
2/12/22	*		--	--	--	--	--	--	--	--	9,955.88
2/13/22	*		--	--	--	--	--	--	--	--	9,955.88
2/14/22	Technician		1,042,804	564,323	1,718,805	1,718,805	1,607,128	3,333,880	6,058	--	9,955.89
2/15/22	Technician		1,045,958	564,323	1,719,755	1,719,755	1,610,281	3,345,416	11,536	--	9,955.97
2/16/22	Technician	1	1,048,523	564,323	1,720,400	1,720,400	1,612,846	3,350,815	5,399	420	9,955.99
2/17/22	*		--	--	--	--	--	--	--	--	9,955.99
2/18/22	*		--	--	--	--	--	--	--	--	9,956.00
2/19/22	*		--	--	--	--	--	--	--	--	9,956.00
2/20/22	*		--	--	--	--	--	--	--	--	9,956.00
2/21/22	*		--	--	--	--	--	--	--	--	9,956.00
2/22/22	Technician		1,050,644	564,323	1,721,863	1,721,863	1,614,967	3,354,685	3,870	--	9,956.00
2/23/22	*		--	--	--	--	--	--	--	--	9,956.02
2/24/22	*		--	--	--	--	--	--	--	--	9,956.03
2/25/22	*		--	--	--	--	--	--	--	--	9,956.04
2/26/22	*		--	--	--	--	--	--	--	--	9,956.05
2/27/22	*		--	--	--	--	--	--	--	--	9,956.06
2/28/22	*		--	--	--	--	--	--	--	--	9,956.07

Cumulative Groundwater Discharged by the GWETS (gallons)							
Period	February	Quarter 1, 2022	Quarter 2, 2022	Quarter 3, 2022	Quarter 4, 2022	2022 to Date	April 1996 to Date
Volume	65,845	204,318	--	--	--	204,318	81,786,299

Cumulative Mass DRO Removed by the GWETS <sup>A</sup> (lb)			
Period	February	Quarter 1 to Date	April 1996 to Date
Mass	0.36	1.15	9,956.1

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

**Legend / Notes:**

1 = Collected monthly water samples for laboratory analysis.

Groundwater extraction wells on line this month: GW-14R, 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 2C**  
**Groundwater Extraction and Treatment System Operations Summary - March**  
 DFSP, Norwalk  
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	GW-14R Totalizer Reading (gallons)	GMW-31 Totalizer Reading (gallons)	GW-16 Totalizer Reading (gallons)	Groundwater Extracted from Eastern Area (gallons)	Groundwater Extracted from Central Area (gallons)	Discharge Totalizer Reading (gallons)	Groundwater Extracted and Treated (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed <sup>A</sup> (lb)
3/1/22	*		--	--	--	--	--	--	--	--	9,956.08
3/2/22	Technician		1,062,311	564,323	1,728,243	1,728,243	1,626,634	3,378,373	23,688	--	9,956.09
3/3/22	*		--	--	--	--	--	--	--	--	9,956.10
3/4/22	Technician		1,067,739	564,323	1,731,636	1,731,636	1,632,062	3,388,017	9,644	--	9,956.12
3/5/22	*		--	--	--	--	--	--	--	--	9,956.14
3/6/22	*		--	--	--	--	--	--	--	--	9,956.16
3/7/22	*		--	--	--	--	--	--	--	--	9,956.18
3/8/22	Technician		1,078,226	564,323	1,738,812	1,738,812	1,642,549	3,410,285	22,268	--	9,956.20
3/9/22	Technician	1	1,080,382	564,323	1,740,049	1,740,049	1,644,705	3,417,727	7,442	460	9,956.23
3/10/22	*		--	--	--	--	--	--	--	--	9,956.25
3/11/22	*		--	--	--	--	--	--	--	--	9,956.27
3/12/22	*		--	--	--	--	--	--	--	--	9,956.29
3/13/22	*		--	--	--	--	--	--	--	--	9,956.30
3/14/22	*		--	--	--	--	--	--	--	--	9,956.32
3/15/22	*		--	--	--	--	--	--	--	--	9,956.34
3/16/22	Technician		1,093,175	564,323	1,752,620	1,752,620	1,657,498	3,452,470	34,743	--	9,956.36
3/17/22	*		--	--	--	--	--	--	--	--	9,956.38
3/18/22	*		--	--	--	--	--	--	--	--	9,956.41
3/19/22	*		--	--	--	--	--	--	--	--	9,956.43
3/20/22	*		--	--	--	--	--	--	--	--	9,956.45
3/21/22	*		--	--	--	--	--	--	--	--	9,956.48
3/22/22	*		--	--	--	--	--	--	--	--	9,956.50
3/23/22	Technician		1,099,000	564,323	1,763,437	1,763,437	1,663,323	3,494,560	42,090	--	9,956.52
3/24/22	*		--	--	--	--	--	--	--	--	9,956.53
3/25/22	*		--	--	--	--	--	--	--	--	9,956.55
3/26/22	*		--	--	--	--	--	--	--	--	9,956.56
3/27/22	*		--	--	--	--	--	--	--	--	9,956.57
3/28/22	*		--	--	--	--	--	--	--	--	9,956.58
3/29/22	Technician	2	1,099,000	564,323	1,763,437	1,763,437	1,663,323	3,512,372	17,812	--	9,956.59
3/30/22	Technician		1,100,004	564,346	1,765,272	1,765,272	1,664,350	3,512,372	0	--	9,956.59
3/31/22	Off line		--	--	--	--	--	--	--	--	9,956.59

Cumulative Groundwater Discharged by the GWETS (gallons)						
Period	March	Quarter 1, 2022	Quarter 2, 2022	Quarter 3, 2022	Quarter 4, 2022	2022 to Date
Volume	138,782	343,100	--	--	--	343,100

Cumulative Mass DRO Removed by the GWETS <sup>A</sup> (lb)			
Period	March	Quarter 1 to Date	April 1996 to Date
Mass	0.52	1.67	9,956.6

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

**Legend / Notes:**

- 1 = Collected monthly water samples for laboratory analysis.
- 2 = GWETS manually shut down for pump cleaning and well development.

- 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

Groundwater extraction wells on line this month: GW-14R, GWM-31, GW-16.  
 \* = Operational values interpolated from chart recorder data or previous monitoring event.



**TABLE 3A**  
**Carbon Vapor Extraction System Operations Summary - January**  
 DFSP, Norwalk  
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow <sup>A</sup> (scfm)	VES Manifold Vacuum (in. Hg)	Carbon Inlet Temperature (°F)	Laboratory Process Concentration (ppmv)	Field Process Concentration <sup>B,C</sup> (ppmv)	Field Effluent Concentration <sup>B,C</sup> (ppmv)	Cumulative Vapor-Phase GRO Removed <sup>D</sup> (lb)
01/01/22	*		72,712	573	--	--	--	--	--	2,986,529
01/02/22	*		72,736	573	--	--	--	--	--	2,986,536
01/03/22	*		72,760	573	--	--	--	--	--	2,986,542
01/04/22	*		72,783	573	--	--	--	--	--	2,986,549
01/05/22	*		72,807	573	--	--	--	--	--	2,986,555
01/06/22	Technician		72,831	573	5.5	118.0	--	397.0	0.0	2,986,562
01/07/22	*		72,856	573	--	--	--	--	--	2,986,569
01/08/22	*		72,881	573	--	--	--	--	--	2,986,576
01/09/22	*		72,906	573	--	--	--	--	--	2,986,583
01/10/22	Technician		72,931	573	--	--	--	--	--	2,986,590
01/11/22	Technician		72,951	573	5.6	122.0	--	345.0	0.0	2,986,595
01/12/22	*		72,975	573	--	--	--	--	--	2,986,602
01/13/22	*		72,999	573	--	--	--	--	--	2,986,609
01/14/22	*		73,022	573	--	--	--	--	--	2,986,615
01/15/22	*		73,046	573	--	--	--	--	--	2,986,622
01/16/22	*		73,070	573	--	--	--	--	--	2,986,629
01/17/22	*		73,094	573	--	--	--	--	--	2,986,635
01/18/22	Technician	1, 2	73,118	576	6.2	118.0	25	211.7	0.0	2,986,642
01/19/22	*		73,142	576	--	--	--	--	--	2,986,649
01/20/22	*		73,166	576	--	--	--	--	--	2,986,656
01/21/22	*		73,190	576	--	--	--	--	--	2,986,662
01/22/22	*		73,214	576	--	--	--	--	--	2,986,669
01/23/22	*		73,237	576	--	--	--	--	--	2,986,676
01/24/22	*		73,261	576	--	--	--	--	--	2,986,682
01/25/22	*		73,285	576	--	--	--	--	--	2,986,689
01/26/22	Technician		73,309	576	6.3	114.0	--	198.6	0.0	2,986,696
01/27/22	*		73,333	576	--	--	--	--	--	2,986,703
01/28/22	*		73,357	576	--	--	--	--	--	2,986,709
01/29/22	*		73,381	576	--	--	--	--	--	2,986,716
01/30/22	*		73,406	576	--	--	--	--	--	2,986,723
01/31/22	*		73,430	576	--	--	--	--	--	2,986,730

Cumulative Mass TPHg Removed by the VES <sup>D</sup> (lb)			
Period	January	Quarter 1 to Date	April 1996 to Date
Mass	227	227	2,986,730

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

**Legend / Notes:**

1 = Collected monthly influent, after GAC-1, after GAC-2, and Effluent samples for laboratory analysis.  
 2 = Collected individual well vapor samples for laboratory analysis from HWs and Trunkline 2.

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

Vapor extraction wells on line this month: HW-1, HW-9, HW-5, HW-7, Trunkline #2

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 result for GRO (if not detected, half the detection limit is used).



**TABLE 3B**  
**Carbon Vapor Extraction System Operations Summary - February**  
 DFSP, Norwalk  
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow <sup>A</sup> (scfm)	VES Manifold Vacuum (in. Hg)	Carbon Inlet Temperature (°F)	Laboratory Process Concentration (ppmv)	Field Process Concentration <sup>B,C</sup> (ppmv)	Field Effluent Concentration <sup>B,C</sup> (ppmv)	Cumulative Vapor-Phase GRO Removed <sup>D</sup> (lb)
02/01/22	Technician		73,454	576	6.3	118.0	--	275.0	0.0	2,986,764
02/02/22	*		73,479	576	--	--	--	--	--	2,986,770
02/03/22	*		73,505	576	--	--	--	--	--	2,986,776
02/04/22	Technician	1,2	73,530	573	6.1	100.0	--	116.4	0.0	2,986,782
02/05/22	*		73,553	573	--	--	--	--	--	2,986,788
02/06/22	*		73,577	573	--	--	--	--	--	2,986,793
02/07/22	*		73,600	573	--	--	--	--	--	2,986,799
02/08/22	*		73,624	573	--	--	--	--	--	2,986,804
02/09/22	Technician	3	73,647	609	6.1	132.0	19	150.8	0.0	2,986,810
02/10/22	*		73,671	609	--	--	--	--	--	2,986,816
02/11/22	*		73,694	609	--	--	--	--	--	2,986,822
02/12/22	*		73,718	609	--	--	--	--	--	2,986,828
02/13/22	*		73,741	609	--	--	--	--	--	2,986,834
02/14/22	*		73,765	609	--	--	--	--	--	2,986,840
02/15/22	Technician		73,788	558	6.8	106.0	--	317.0	0.0	2,986,845
02/16/22	*		73,813	558	--	--	--	--	--	2,986,851
02/17/22	*		73,837	558	--	--	--	--	--	2,986,856
02/18/22	*		73,861	558	--	--	--	--	--	2,986,862
02/19/22	*		73,885	558	--	--	--	--	--	2,986,867
02/20/22	*		73,909	558	--	--	--	--	--	2,986,873
02/21/22	*		73,934	558	--	--	--	--	--	2,986,878
02/22/22	Technician		73,958	564	6.6	111.0	--	286.2	0.0	2,986,884
02/23/22	*		73,982	564	--	--	--	--	--	2,986,890
02/24/22	*		74,006	564	--	--	--	--	--	2,986,895
02/25/22	*		74,031	564	--	--	--	--	--	2,986,901
02/26/22	*		74,055	564	--	--	--	--	--	2,986,907
02/27/22	*		74,079	564	--	--	--	--	--	2,986,912
02/28/22	*		74,104	564	--	--	--	--	--	2,986,918

Cumulative Mass TPHg Removed by the VES <sup>A</sup> (lb)			
Period	February	Quarter 1 to Date	April 1996 to Date
Mass	188	415	2,986,918

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

**Legend / Notes:**

- 1 = VES manually shutdown in advance of carbon change out work.
- 2 = VES restarted following completion of carbon change out work.
- 3 = Collected monthly influent, after GAC-1, after GAC-2, and Effluent samples for laboratory analysis.

-- = Not applicable or not measured

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

Vapor extraction wells on line this month: HW-1, HW-9, HW-5, HW-7, Trunkline #2

- 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 3C**  
**Carbon Vapor Extraction System Operations Summary - March**  
 DFSP, Norwalk  
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow <sup>A</sup> (scfm)	VES Manifold Vacuum (in. Hg)	Carbon Inlet Temperature (°F)	Laboratory Process Concentration (ppmv)	Field Process Concentration <sup>B,C</sup> (ppmv)	Field Effluent Concentration <sup>B,C</sup> (ppmv)	Cumulative Vapor-Phase GRO Removed <sup>D</sup> (lb)
03/01/22	Technician		74,128	586	6.5	131.0	--	269.0	0.0	2,986,963
03/02/22	*		74,152	586	--	--	--	--	--	2,986,969
03/03/22	*		74,175	586	--	--	--	--	--	2,986,975
03/04/22	*		74,199	586	--	--	--	--	--	2,986,981
03/05/22	*		74,223	586	--	--	--	--	--	2,986,988
03/06/22	*		74,247	586	--	--	--	--	--	2,986,994
03/07/22	*		74,270	586	--	--	--	--	--	2,987,000
03/08/22	*		74,294	586	--	--	--	--	--	2,987,007
03/09/22	Technician	1	74,318	562	6.8	120.0	22	326.6	0.0	2,987,013
03/10/22	*		74,342	562	--	--	--	--	--	2,987,019
03/11/22	*		74,367	562	--	--	--	--	--	2,987,025
03/12/22	*		74,391	562	--	--	--	--	--	2,987,031
03/13/22	*		74,416	562	--	--	--	--	--	2,987,037
03/14/22	*		74,440	562	--	--	--	--	--	2,987,043
03/15/22	Technician		74,465	569	6.8	130.0	--	321.9	0.0	2,987,050
03/16/22	*		74,490	569	--	--	--	--	--	2,987,056
03/17/22	Technician	2	74,515	0	--	--	--	--	--	2,987,056
03/18/22	Offline		74,515	0	--	--	--	--	--	2,987,056
03/19/22	Offline		74,515	0	--	--	--	--	--	2,987,056
03/20/22	Offline		74,515	0	--	--	--	--	--	2,987,056
03/21/22	Technician	3	74,515	618	5.5	122.0	--	128.3	0.0	2,987,056
03/22/22	*		74,538	618	--	--	--	--	--	2,987,063
03/23/22	*		74,562	618	--	--	--	--	--	2,987,069
03/24/22	*		74,586	618	--	--	--	--	--	2,987,076
03/25/22	*		74,609	618	--	--	--	--	--	2,987,082
03/26/22	*		74,633	618	--	--	--	--	--	2,987,089
03/27/22	*		74,657	618	--	--	--	--	--	2,987,095
03/28/22	*		74,680	618	--	--	--	--	--	2,987,102
03/29/22	*		74,704	618	--	--	--	--	--	2,987,109
03/30/22	*		74,728	618	--	--	--	--	--	2,987,115
03/31/22	Technician		74,751	564	6.9	117.0	--	343.0	0.0	2,987,121

Cumulative Mass TPHg Removed by the VES <sup>A</sup> (lb)			
Period	March	Quarter 1 to Date	April 1996 to Date
Mass	203	619	2,987,121

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

**Legend / Notes :**

- 1 = Collected monthly influent, after GAC-1, after GAC-2, and Effluent samples for laboratory analysis.
- 2 = VES automatically shut down.
- 3 = VES restarted.

-- = Not applicable or not measured

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

Vapor extraction wells on line this month: HW-1, HW-9, HW-5, HW-7, Trunkline #2

- VES = Soil vapor extraction system
  - scfm = Standard cubic feet per minute
  - A = Reading from chart recorder.
  - B = Concentrations obtained with a calibrated organic vapor analyzer.
  - C = Concentrations correlated to laboratory data and expressed as hexane.
  - D = Hydrocarbon removal is calculated using analytical laboratory results for GRO (if not detected, half the detection limit is used)
- in. Hg = Inches of mercury
  - °F = Degrees Fahrenheit
  - ppmv = Parts per million by volume
  - lb = Pounds



**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		VOCs as Hexane <sup>A</sup>		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
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



**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		VOCs as Hexane <sup>A</sup>		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)
04/23/14		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
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

**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		VOCs as Hexane <sup>A</sup>		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)
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
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

**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		VOCs as Hexane <sup>A</sup>		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)
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	8015 & 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	8015 & 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	8015 & 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
10/05/20		HW-1, HW-9, HW-7	8015 & 8260B	80	13	54	9.8	54	<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
11/05/20	26	HW-1, HW-9, HW-7, Trunkline #2	8015 & 8260B	392	34	140	25	140	<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
11/30/20		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	398	29	120	22	120	<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
02/24/21		HW-1, HW-9, HW-5, HW-7	8015 & 8260B	38	<4.9	<20	<4.9	<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
03/08/21		HW-1, HW-8, HW-9, HW-5, HW-7	8015 & 8260B	53	6.8	28	5.1	28	<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
04/19/21		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	238	22	90	16	90	<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
06/08/21		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	177	21	86	16	86	<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
06/21/21		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	247	18	73	13	73	<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
07/07/21		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	196	22	90	16	90	<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
08/09/21		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	203	17	69	13	69	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
09/20/21		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	155	16	64	12	64	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
10/18/21		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	152	14	56	10	56	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
11/10/21		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	191	29	120	21	120	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
12/06/21		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	315	46	190	35	190	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
01/18/22		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	212	32	130	25	130	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0

**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		VOCs as Hexane <sup>A</sup>		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)
02/09/22		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	151	<b>27</b>	<b>110</b>	<b>19</b>	<b>110</b>	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
03/09/22		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	327	<b>29</b>	<b>120</b>	<b>22</b>	<b>120</b>	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0

**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

GRO = Gasoline range organics

**- Reported concentrations are shown in bold.**

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

-- = Not available or not analyzed

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

A = Laboratory reporting Gasoline Range Organics (GRO) as Hexane prior to 11-05-20.

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

2 = VES restarted.

3 = Closed vapor extraction wells VEW-35, VEW-36, and VEW-37 on 08/27/14 based on field readings (see Table 9A for details).

4 = VES manually shut down.

5 = VES restarted on 11/03/14.

6 = Select soil biopiles also on line.

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

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

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

10 = Opened vapor extraction wells HW-1, HW-3 and HW-5 on 08/10/15 based on field PID readings (see Table 9A for details).

11 = Closed vapor extraction well VEW-34 on 08/19/15 based on low to non-detectable lab results (see Table 10 for details).

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

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

14 = Resumed vapor extraction from well HW-7 based on field PID readings (see Table 9A for details).

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

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

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

18 = Wells RW-1, RW-2, RW-7, RW-9, RW-12, RW-13, RW-18, RW-20 through RW-24, RW-26, and RW-28 through RW-33 tied into system during early August 2017 following installation per SGI's June 30, 2017 *Remediation Well Installation Update Report*.

19 = For full list of wells online, see SGI's November 15, 2017 *Remediation Status Report - Third Quarter 2017* and *February 15, 2018 Remediation Status Report - Fourth Quarter 2017*, respectively.

20 = Opened dilution valve approximately 10% to reduce carbon usage rate.

21 = Closed dilution valve and focused extraction efforts on relatively low concentration horizontal wells to reduce carbon usage with all other higher concentration vertical wells being connected to the 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.

26 = Laboratory reporting Gasoline Range Organics (GRO) as Hexane prior to 11-05-20.

**TABLE 5A**  
**Thermal Oxidizer Vapor Extraction System Operations Summary - January**  
 DFSP, Norwalk  
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow <sup>A</sup> (scfm)	VES Manifold Vacuum (in. WC)	Oxidizer Inlet Temperature TE1 Excess Controller (°F)	Laboratory Process GRO Concentration (ppmv)	Field Inlet Process Oxidizer Concentration <sup>B,C</sup> (ppmv)	Field Effluent Concentration <sup>B,C</sup> (ppmv)	Cumulative Vapor-Phase GRO Removed <sup>D</sup> (lb)
01/01/22	*		18,338	647	--	--	--	--	--	324,158
01/02/22	*		18,362	647	--	--	--	--	--	324,301
01/03/22	*		18,385	647	--	--	--	--	--	324,443
01/04/22	*		18,409	647	--	--	--	--	--	324,586
01/05/22	*		18,432	647	--	--	--	--	--	324,729
01/06/22	Technician		18,456	698	66	808	--	470	2	324,883
01/07/22	*		18,480	698	--	--	--	--	--	325,041
01/08/22	*		18,504	698	--	--	--	--	--	325,199
01/09/22	*		18,529	698	--	--	--	--	--	325,357
01/10/22	*		18,553	698	--	--	--	--	--	325,516
01/11/22	Technician		18,577	750	66	811	--	486	6	325,686
01/12/22	*		18,601	750	--	--	--	--	--	325,853
01/13/22	*		18,625	750	--	--	--	--	--	326,021
01/14/22	*		18,649	750	--	--	--	--	--	326,188
01/15/22	*		18,672	750	--	--	--	--	--	326,356
01/16/22	*		18,696	750	--	--	--	--	--	326,524
01/17/22	*		18,720	750	--	--	--	--	--	326,691
01/18/22	Technician	1,2	18,744	697	68	811	460	498	3	326,847
01/19/22	*		18,768	697	--	--	--	--	--	327,002
01/20/22	*		18,792	697	--	--	--	--	--	327,157
01/21/22	*		18,815	697	--	--	--	--	--	327,312
01/22/22	*		18,839	697	--	--	--	--	--	327,467
01/23/22	*		18,863	697	--	--	--	--	--	327,622
01/24/22	*		18,887	697	--	--	--	--	--	327,777
01/25/22	*		18,910	697	--	--	--	--	--	327,932
01/26/22	Technician		18,934	570	70	809	--	460	3	328,059
01/27/22	*		18,958	570	--	--	--	--	--	328,189
01/28/22	*		18,983	570	--	--	--	--	--	328,319
01/29/22	*		19,007	570	--	--	--	--	--	328,448
01/30/22	*		19,031	570	--	--	--	--	--	328,578
01/31/22	*		19,056	570	--	--	--	--	--	328,708

Cumulative Mass TPHg Removed by the VES <sup>D</sup> (lb)			
Period	January	Quarter 1 to Date	January 2018 to Date
Mass	4,693.0	4,693.0	336,549.3

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

**Legend / Notes:**

- 1 = Collected monthly influent and effluent samples for laboratory analysis.
- 2 = Collected Trunkline 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-20, 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-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)

- 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 - February**  
 DFSP, Norwalk  
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow <sup>A</sup> (scfm)	VES Manifold Vacuum (in. WC)	Oxidizer Inlet Temperature TE1 Excess Controller (°F)	Laboratory Process GRO Concentration (ppmv)	Field Inlet Process Oxidizer Concentration <sup>B,C</sup> (ppmv)	Field Effluent Concentration <sup>B,C</sup> (ppmv)	Cumulative Vapor-Phase GRO Removed <sup>D</sup> (lb)
02/01/22	Technician		19,080	712	68	803	--	444	5	329,565
02/02/22	*		19,104	712	--	--	--	--	--	329,707
02/03/22	*		19,129	712	--	--	--	--	--	329,850
02/04/22	*		19,153	712	--	--	--	--	--	329,992
02/05/22	*		19,177	712	--	--	--	--	--	330,134
02/06/22	*		19,201	712	--	--	--	--	--	330,276
02/07/22	*		19,226	712	--	--	--	--	--	330,419
02/08/22	*		19,250	712	--	--	--	--	--	330,561
02/09/22	Technician	1	19,274	790	67	796	390	436	3	330,719
02/10/22	Technician		19,296	790	--	--	--	--	--	330,862
02/11/22	*		19,318	790	--	--	--	--	--	331,008
02/12/22	*		19,341	790	--	--	--	--	--	331,154
02/13/22	*		19,363	790	--	--	--	--	--	331,300
02/14/22	*		19,386	790	--	--	--	--	--	331,446
02/15/22	Technician		19,408	716	68	799	--	410	4	331,578
02/16/22	*		19,432	716	--	--	--	--	--	331,721
02/17/22	*		19,457	716	--	--	--	--	--	331,864
02/18/22	*		19,481	716	--	--	--	--	--	332,008
02/19/22	*		19,505	716	--	--	--	--	--	332,151
02/20/22	*		19,529	716	--	--	--	--	--	332,294
02/21/22	*		19,554	716	--	--	--	--	--	332,438
02/22/22	Technician		19,578	735	70	794	--	416	3	332,585
02/23/22	*		19,602	735	--	--	--	--	--	332,732
02/24/22	*		19,627	735	--	--	--	--	--	332,879
02/25/22	*		19,651	735	--	--	--	--	--	333,026
02/26/22	*		19,675	735	--	--	--	--	--	333,173
02/27/22	*		19,699	735	--	--	--	--	--	333,320
02/28/22	*		19,724	735	--	--	--	--	--	333,467

Cumulative Mass TPHg Removed by the VES <sup>D</sup> (lb)			
Period	February	Quarter 1 to Date	January 2018 to Date
Mass	4,759.1	9,452.1	341,308.4

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

**Legend / Notes:**

1 = 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-20, 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-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)

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 5C**  
**Thermal Oxidizer Vapor Extraction System Operations Summary - March**  
 DFSP, Norwalk  
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow <sup>A</sup> (scfm)	VES Manifold Vacuum (in. WC)	Oxidizer Inlet Temperature TE1 Excess Controller (°F)	Laboratory Process GRO Concentration (ppmv)	Field Inlet Process Oxidizer Concentration <sup>B,C</sup> (ppmv)	Field Effluent Concentration <sup>B,C</sup> (ppmv)	Cumulative Vapor-Phase GRO Removed <sup>D</sup> (lb)
03/01/22	Technician		19,748	760	70	789	--	355	8	334,532
03/02/22	*		19,772	760	--	--	--	--	--	334,681
03/03/22	*		19,796	760	--	--	--	--	--	334,830
03/04/22	*		19,819	760	--	--	--	--	--	334,978
03/05/22	*		19,843	760	--	--	--	--	--	335,127
03/06/22	*		19,867	760	--	--	--	--	--	335,276
03/07/22	*		19,891	760	--	--	--	--	--	335,425
03/08/22	*		19,914	760	--	--	--	--	--	335,573
03/09/22	Technician	1	19,938	707	70	791	400	402	3	335,712
03/10/22	*		19,963	707	--	--	--	--	--	335,855
03/11/22	*		19,987	707	--	--	--	--	--	335,997
03/12/22	*		20,012	707	--	--	--	--	--	336,140
03/13/22	*		20,036	707	--	--	--	--	--	336,283
03/14/22	*		20,061	707	--	--	--	--	--	336,426
03/15/22	Technician		20,085	715	72	795	--	380	3	336,570
03/16/22	*		20,107	715	--	--	--	--	--	336,700
03/17/22	Technician		20,129	715	--	--	--	--	--	336,829
03/18/22	*		20,153	715	--	--	--	--	--	336,971
03/19/22	*		20,177	715	--	--	--	--	--	337,112
03/20/22	*		20,201	715	--	--	--	--	--	337,254
03/21/22	Technician		20,225	737	70	788	--	358	3	337,399
03/22/22	*		20,249	737	--	--	--	--	--	337,542
03/23/22	*		20,272	737	--	--	--	--	--	337,685
03/24/22	*		20,296	737	--	--	--	--	--	337,828
03/25/22	*		20,319	737	--	--	--	--	--	337,970
03/26/22	*		20,343	737	--	--	--	--	--	338,113
03/27/22	*		20,366	737	--	--	--	--	--	338,256
03/28/22	*		20,390	737	--	--	--	--	--	338,398
03/29/22	*		20,413	737	--	--	--	--	--	338,541
03/30/22	*		20,437	737	--	--	--	--	--	338,684
03/31/22	Technician		20,460	707	70	787	--	402	3	338,821

Cumulative Mass TPHg Removed by the VES <sup>A</sup> (lb)			
Period	March	Quarter 1 to Date	January 2018 to Date
Mass	5,353.5	14,805.6	346,661.9

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

**Legend / Notes:**

1 = 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-20, 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-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)

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		VOCs as Hexane <sup>A</sup>		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, -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	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

**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		VOCs as Hexane <sup>A</sup>		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)
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), (TRF-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
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-16), (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-14), (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	3,400	14,000	3,000	14,000	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-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-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

**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		VOCs as Hexane <sup>A</sup>		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)
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
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), (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34); 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	--	3,900	1.10	3.50	0.21	0.91	<0.55	<2.0	0.42	1.60	0.48	2.10	0.71	3.10	1.19	5.2
9/14/2020		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), (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34); 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	--	7,700	3.40	11.00	0.35	1.50	<0.55	<2.0	0.40	1.50	0.35	1.50	0.85	3.70	1.2	5.2
10/5/2020		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-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12), (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34); 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	582	1,300	5,300	--	5,300	1.20	3.90	0.22	0.96	<0.55	<2.0	0.58	2.20	0.25	1.10	0.62	2.70	0.87	3.8

**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		VOCs as Hexane <sup>A</sup>		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)
11/4/2020		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-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12), (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34); Eastern Area - (RW-1), (RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-40, RW-26, RW-28), (RW-29), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49).	8015 & 8260B	554	1,900	7,900	1,400	7,900	1.20	3.90	0.32	1.40	<0.55	<2.0	0.85	3.20	0.35	1.50	0.81	3.50	1.16	5.0
12/7/2020		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-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12), (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34); Eastern Area - (RW-1), (RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-40, RW-26, RW-28), (RW-29), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49).	8015 & 8260B	512	1,300	5,500	1,000	5,500	0.94	3.00	0.35	1.50	<0.55	<2.0	0.74	2.80	0.37	1.60	0.85	3.70	1.22	5.3
1/28/2021		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-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12), (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34); Eastern Area - (RW-1), (RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-40, RW-26, RW-28), (RW-29), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49).	8015 & 8260B	782	1,400	5,600	1,000	5,600	1.80	5.80	0.41	1.80	<0.55	<2.0	0.40	1.50	0.32	1.40	0.99	4.30	1.31	5.7
2/24/2021		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-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12), (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34); Eastern Area - (RW-1), (RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-40, RW-26, RW-28), (RW-29), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49).	8015 & 8260B	826	980	4,000	740	4,000	1.40	4.60	0.41	1.80	<0.55	<2.0	0.42	1.60	0.25	1.10	0.92	4.00	1.17	5.1
3/8/2021		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-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12), (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34); Eastern Area - (RW-1), (RW-7), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-21, RW-23), (RW-30), (VEW-38, VEW-40, RW-26, RW-28), (RW-24, RW-25, RW-27, RW-33, RW-43), (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	696	540	2,200	400	2,200	1.80	5.60	0.46	2.00	<0.55	<2.0	0.58	2.20	0.28	1.20	0.94	4.10	1.22	5.3
4/19/2021		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-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12), (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34); Eastern Area - (RW-1), (RW-7), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-21, RW-23), (RW-30), (VEW-38, VEW-40, RW-26, RW-28), (RW-24, RW-25, RW-27, RW-33, RW-43), (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	504	420	1,700	310	1,700	1.40	4.40	0.28	1.20	<0.55	<2.0	0.26	0.97	0.20	0.86	0.60	2.60	0.8	3.46
6/8/2021		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-20, 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-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)	8015 & 8260B	486	390	1,600	280	1,600	1.10	3.60	0.46	2.00	<0.55	<2.0	0.53	2.00	0.35	1.50	1.00	4.40	1.35	5.9
6/21/2021		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-20, 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-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)	8015 & 8260B	538	460	1,900	340	1,900	1.10	3.40	0.37	1.60	<0.55	<2.0	0.48	1.80	0.30	1.30	0.88	3.80	1.18	5.1

**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		VOCs as Hexane <sup>A</sup>		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)
7/7/2021		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-20, 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-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)	8015 & 8260B	490	460	1,900	340	1,900	0.94	3.00	0.44	1.90	<0.55	<2.0	0.53	2.00	0.37	1.60	1.10	4.70	1.47	6.3
8/9/2021		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-20, 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-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)	8015 & 8260B	406	370	1,500	290	1,500	1.20	3.90	0.46	2.00	<0.28	<1.0	0.58	2.20	0.37	1.60	1.00	4.50	1.37	6.1
9/20/2021		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-20, 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-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)	8015 & 8260B	412	320	1,300	240	1,300	0.44	1.40	0.32	1.40	<0.28	<1.0	0.37	1.40	0.30	1.30	0.83	3.60	1.13	4.9
10/18/2021		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-20, 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-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)	8015 & 8260B	436	440	1,800	330	1,800	0.85	2.70	0.37	1.60	<0.28	<1.0	0.45	1.70	0.37	1.60	1.00	4.50	1.37	6.1
11/10/2021		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-20, 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-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)	8015 & 8260B	446	610	2,500	450	2,500	1.10	3.40	0.28	1.20	<0.28	<1.0	0.32	1.20	0.23	1.00	0.69	3.00	0.92	4.0
12/6/2021		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-20, 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-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)	8015 & 8260B	458	640	2,600	470	2,600	0.63	2.00	0.35	1.50	<0.28	<1.0	0.42	1.60	0.30	1.30	0.99	4.30	1.29	5.6
1/18/2022		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-20, 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-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)	8015 & 8260B	498	610	2,500	460	2,500	1.10	3.60	0.37	1.60	<0.28	<1.0	0.45	1.70	0.25	1.10	0.92	4.00	1.17	5.1
2/9/2022		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-20, 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-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)	8015 & 8260B	436	540	2,200	390	2,200	0.75	2.40	0.22	0.97	<0.28	<1.0	0.32	1.20	0.21	0.90	0.69	3.00	0.9	3.9

**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		VOCs as Hexane <sup>A</sup>		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)
3/9/2022		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-20, 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-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)	8015 & 8260B	<b>402</b>	<b>540</b>	<b>2,200</b>	<b>400</b>	<b>2,200</b>	<b>0.81</b>	<b>2.60</b>	<b>0.25</b>	<b>1.10</b>	<0.28	<1.0	<b>0.42</b>	<b>1.60</b>	<b>0.30</b>	<b>1.30</b>	<b>0.83</b>	<b>3.60</b>	<b>1.13</b>	<b>4.9</b>

**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.**

A = Laboratory reporting Gasoline Range Organics (GRO) as Hexane prior to 11-05-20.

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 - First Quarter 2022**  
 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 <sup>A</sup> (gallons)	LNAPL Removed with Socks <sup>A</sup> (pounds)	LNAPL Removed with Socks <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A, B</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A, B</sup> (pounds)
<i>End of Fourth Quarter 2021:</i>							149.1	1,020.0
01/06/22	--	35.58	--	0.0	0.6	0.1	149.1	1,020.6
01/27/22	--	35.72	--	0.0	0.0	0.0	149.1	1,020.6
02/01/22	--	35.93	--	0.0	0.0	0.0	149.1	1,020.6
02/07/22	--	35.73	--	0.0	0.0	0.0	149.1	1,020.6
02/18/22	--	34.83	--	0.0	0.3	0.0	149.2	1,020.9
02/24/22	--	35.31	--	0.0	0.0	0.0	149.2	1,020.9
03/04/22	--	35.91	--	0.0	0.0	0.0	149.2	1,020.9
03/10/22	--	35.83	--	0.0	0.0	0.0	149.2	1,020.9
03/15/22	--	35.43	--	0.0	0.0	0.0	149.2	1,020.9
03/22/22	--	34.61	--	0.0	0.0	0.0	149.2	1,020.9
<b>Cumulative for the Reporting Period <sup>A</sup>:</b>				<b>0.0</b>	<b>0.9</b>	<b>0.1</b>	<b>0.1</b>	<b>0.9</b>
<b>Cumulative Beginning January 2014 <sup>A, B</sup>:</b>				<b>112.0</b>	<b>254.5</b>	<b>37.2</b>	<b>149.2</b>	<b>1,020.9</b>

**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 - First Quarter 2022**  
 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 <sup>A</sup> (gallons)	LNAPL Removed with Socks <sup>A</sup> (pounds)	LNAPL Removed with Socks <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A, B</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A, B</sup> (pounds)
<i>End of Fourth Quarter 2021:</i>							95.7	655.2
01/06/22	--	34.87	--	0.0	2.1	0.3	96.1	657.3
01/27/22	--	34.92	--	0.0	2.5	0.4	96.4	659.8
02/01/22	--	35.10	--	0.0	0.0	0.0	96.4	659.8
02/07/22	--	34.96	--	0.0	1.1	0.2	96.6	660.9
02/18/22	--	34.98	--	0.0	0.0	0.0	96.6	660.9
02/24/22	--	34.62	--	0.0	1.7	0.2	96.8	662.6
03/04/22	--	35.03	--	0.0	1.4	0.2	97.0	664.0
03/10/22	--	34.95	--	0.0	0.0	0.0	97.0	664.0
03/15/22	--	34.64	--	0.0	2.1	0.3	97.3	666.0
03/22/22	--	34.76	--	0.0	1.4	0.2	97.5	667.4
<b>Cumulative for the Reporting Period <sup>A</sup>:</b>				<b>0.0</b>	<b>12.2</b>	<b>1.8</b>	<b>1.8</b>	<b>12.2</b>
<b>Cumulative Beginning October 2016 <sup>A, B</sup>:</b>				<b>33.5</b>	<b>438.2</b>	<b>64.0</b>	<b>97.5</b>	<b>667.4</b>

**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 - First Quarter 2022**  
 DFSP, Norwalk  
 15306 Norwalk Blvd., Norwalk, CA

<b>Date</b>	<b>Depth to LNAPL (feet btc)</b>	<b>Depth to Water (feet btc)</b>	<b>Measured LNAPL Thickness (feet)</b>	<b>LNAPL Removed Via Pumping and/or Bailing (gallons)</b>	<b>LNAPL Removed with Socks (pounds)</b>	<b>LNAPL Removed with Socks (gallons)</b>	<b>Cumulative LNAPL Removed Via Pumping, Bailing and Socks <sup>A</sup> (gallons)</b>	<b>Cumulative LNAPL Removed Via, Pumping, Bailing and Socks <sup>A</sup> (pounds)</b>
No Product Removal Via Bailing, Skimming, or Absorbant Socks During 1st Quarter 2022								
<b>Cumulative for the Reporting Period:</b>				<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Cumulative Beginning December 2014 <sup>A</sup>:</b>				<b>8.0</b>	<b>135.6</b>	<b>19.8</b>	<b>27.8</b>	<b>190.4</b>

**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 - First Quarter 2022**  
 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Pumping, Bailing and Socks <sup>A</sup> (pounds)
No Product Removal Via Bailing, Skimming, or Absorbant Socks During 1st Quarter 2022								
<b>Cumulative for the Reporting Period:</b>				<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Cumulative Beginning June 2015 <sup>A</sup>:</b>				<b>6.75</b>	<b>199.1</b>	<b>29.08</b>	<b>35.8</b>	<b>245.2</b>

**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 - First Quarter 2022**  
 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
No Pumping/Skimming from Product Recovery System Well During 1st Quarter 2022								
<b>Cumulative for the Reporting Period:</b>				<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Cumulative Beginning October 2018 <sup>A,B</sup>:</b>				<b>150.0</b>	<b>0.0</b>	<b>0.0</b>	<b>150.0</b>	<b>1,026.5</b>

**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 - First Quarter 2022**  
 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
No Pumping/Skimming from Product Recovery System Well During 1st Quarter 2022								
<b>Cumulative for the Reporting Period <sup>B</sup>:</b>				<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Cumulative Beginning March 2017 <sup>A</sup>:</b>				<b>101.1</b>	<b>75.8</b>	<b>11.1</b>	<b>112.2</b>	<b>767.6</b>

**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 - First Quarter 2022**  
 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
No Pumping/Skimming from Product Recovery System Well During 1st Quarter 2022								
<b>Cumulative for the Reporting Period:</b>				<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Cumulative Beginning April 2018 <sup>A,B</sup>:</b>				<b>284.3</b>	<b>0.0</b>	<b>0.0</b>	<b>284.3</b>	<b>1,945.7</b>

**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 - First Quarter 2022**  
 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
No Pumping/Skimming from Product Recovery System Well During 1st Quarter 2022								
<b>Cumulative for the Reporting Period:</b>				<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Cumulative Beginning April 2018 <sup>A,B</sup>:</b>				<b>2.1</b>	<b>0.0</b>	<b>0.0</b>	<b>2.1</b>	<b>14.2</b>

**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 71**  
**Summary of LNAPL Removal in Well TF-15 - First Quarter 2022**  
 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
No Pumping/Skimming from Product Recovery System Well During 1st Quarter 2022								
<b>Cumulative for the Reporting Period <sup>B</sup>:</b>				<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Cumulative Beginning October 2016 <sup>A</sup>:</b>				<b>187.1</b>	<b>52.5</b>	<b>7.7</b>	<b>194.8</b>	<b>1,332.9</b>

**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 - First Quarter 2022**  
 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
No Pumping/Skimming from Product Recovery System Well During 1st Quarter 2022								
<b>Cumulative for the Reporting Period:</b>				<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Cumulative Beginning October 2018 <sup>A,B</sup>:</b>				<b>23.0</b>	<b>0.0</b>	<b>0.0</b>	<b>23.0</b>	<b>157.4</b>

**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 - First Quarter 2022**  
 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
No Pumping/Skimming from Product Recovery System Well During 1st Quarter 2022								

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

**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 - First Quarter 2022**  
 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
No Pumping/Skimming from Product Recovery System Well During 1st Quarter 2022								
<b>Cumulative for the Reporting Period:</b>				<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Cumulative Beginning October 2018 <sup>A,B</sup>:</b>				<b>360.0</b>	<b>0.0</b>	<b>0.0</b>	<b>360.0</b>	<b>2,463.6</b>

**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 - First Quarter 2022**  
 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
No Pumping/Skimming from Product Recovery System Well During 1st Quarter 2022								
<b>Cumulative for the Reporting Period:</b>				<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Cumulative Beginning October 2018 <sup>A,B</sup>:</b>				<b>18.1</b>	<b>0.0</b>	<b>0.0</b>	<b>18.1</b>	<b>124.2</b>

**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 - First Quarter 2022**  
 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
<i>End of Fourth Quarter 2021:</i>							326.7	2,235.7
01/05/22	34.15	36.37	2.22	1.2	--	--	327.9	2,243.7
01/13/22	33.30	37.25	3.95	1.8	--	--	329.6	2,255.7
01/27/22	33.43	38.20	4.77	2.3	--	--	332.0	2,271.7
02/01/22	32.95	38.10	5.15	2.3	--	--	334.3	2,287.6
02/07/22	33.41	38.46	5.05	2.3	--	--	336.6	2,303.6
02/18/22	33.10	36.47	3.37	1.8	--	--	338.4	2,315.6
02/23/22	33.32	38.32	5.00	2.3	--	--	340.7	2,331.5
03/04/22	33.45	37.30	3.85	1.8	--	--	342.5	2,343.5
03/10/22	33.45	36.82	3.37	1.8	--	--	344.2	2,355.5
03/15/22	33.42	36.60	3.18	1.8	--	--	346.0	2,367.5
03/22/22	33.23	35.75	2.52	1.2	--	--	347.1	2,375.4
<b>Cumulative for the Reporting Period:</b>				<b>20.4</b>	<b>0.0</b>	<b>0.0</b>	<b>20.4</b>	<b>139.7</b>
<b>Cumulative Beginning October 2018 <sup>A,B</sup>:</b>				<b>347.1</b>	<b>0.0</b>	<b>0.0</b>	<b>347.1</b>	<b>2,375.4</b>

**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 - First Quarter 2022**  
 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
No Pumping/Skimming from Product Recovery System Well During 1st Quarter 2022								
<b>Cumulative for the Reporting Period:</b>				<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Cumulative Beginning October 2018 <sup>A,B</sup>:</b>				<b>110.1</b>	<b>0.0</b>	<b>0.0</b>	<b>110.1</b>	<b>753.3</b>

**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 - First Quarter 2022**  
 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 <sup>A</sup> (gallons)	LNAPL Removed with Socks <sup>A</sup> (pounds)	LNAPL Removed with Socks <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A,B</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A,B</sup> (pounds)
<i>End of Fourth Quarter 2021:</i>							961.0	6,576.0
01/05/22	34.41	34.98	0.57	0.6	--	--	961.5	6,580.0
01/13/22	34.44	38.84	4.40	1.8	--	--	963.3	6,592.0
01/27/22	34.25	35.34	1.09	0.6	--	--	963.9	6,596.0
02/01/22	34.06	34.32	0.26	0.6	--	--	964.5	6,600.0
02/07/22	34.29	34.59	0.30	0.6	--	--	965.0	6,604.0
02/18/22	32.34	32.78	0.44	0.6	--	--	965.6	6,608.0
02/23/22	34.05	34.98	0.93	0.6	--	--	966.2	6,611.9
03/04/22	34.02	34.66	0.64	0.6	--	--	966.8	6,615.9
03/10/22	33.75	34.67	0.92	0.6	--	--	967.4	6,619.9
03/15/22	33.72	34.50	0.78	0.6	--	--	968.0	6,623.9
03/22/22	38.35	38.94	0.59	0.6	--	--	968.5	6,627.9
<b>Cumulative for the Reporting Period<sup>A,E</sup>:</b>				<b>7.6</b>	<b>0.0</b>	<b>0.0</b>	<b>7.6</b>	<b>51.9</b>
<b>Cumulative Beginning April 2018<sup>A,B,C,D</sup>:</b>				<b>968.5</b>	<b>0.0</b>	<b>0.0</b>	<b>968.5</b>	<b>6,627.9</b>

**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.

E = Pump was removed and an absorbent sock was installed on March 22, 2022.



**TABLE 7Q**  
**Summary of LNAPL Removal in Well TFR-33 - First Quarter 2022**  
 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
No Pumping/Skimming from Product Recovery System Well During 1st Quarter 2022								
<b>Cumulative for the Reporting Period:</b>				<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Cumulative Beginning October 2018 <sup>A,B</sup>:</b>				<b>123.0</b>	<b>0.0</b>	<b>0.0</b>	<b>123.0</b>	<b>841.7</b>

**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 - First Quarter 2022**  
 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
<i>End of Fourth Quarter 2021:</i>							679.1	4,647.1
01/13/22	33.55	33.68	0.13	0.0	--	--	679.1	4,647.1
02/07/22	--	33.92	0.00	0.0	3.9	0.6	679.6	4,650.9
02/18/22	--	34.19	0.00	0.0	2.6	0.4	680.0	4,653.6
03/04/22	--	33.88	0.00	0.0	2.1	0.3	680.3	4,655.7
03/15/22	--	34.13	0.00	0.0	2.3	0.3	680.7	4,657.9
03/22/22	--	33.64	0.00	0.0	0.0	0.0	680.7	4,657.9
<b>Cumulative for the Reporting Period:</b>				<b>0.0</b>	<b>10.9</b>	<b>1.6</b>	<b>1.6</b>	<b>10.9</b>
<b>Cumulative Beginning May 2016 - July 2016 <sup>A</sup>:</b>				<b>47.5</b>	<b>0.0</b>	<b>0.0</b>	<b>47.5</b>	<b>325.1</b>
<b>Cumulative Beginning August 2016 - September 2019 <sup>B</sup>:</b>				<b>593.4</b>	<b>0.0</b>	<b>0.0</b>	<b>593.4</b>	<b>4,061.5</b>
<b>Cumulative Beginning May 2016 <sup>A</sup>:</b>				<b>679.1</b>	<b>10.9</b>	<b>1.6</b>	<b>680.7</b>	<b>4,657.9</b>

**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 - First Quarter 2022**  
 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
No Pumping/Skimming from Product Recovery System Well During 1st Quarter 2022								

<b>Cumulative for the Reporting Period:</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Cumulative Beginning May 2016 - July 2016 <sup>A</sup>:</b>	<b>76.5</b>	<b>0.0</b>	<b>0.0</b>	<b>76.5</b>	<b>523.5</b>	<b>0.0</b>
<b>Cumulative Beginning August 2016 - June 2019 <sup>B</sup>:</b>	<b>2,961.0</b>	<b>0.0</b>	<b>0.0</b>	<b>2,961.0</b>	<b>20,262.6</b>	<b>0.0</b>
<b>Cumulative Beginning May 2016 <sup>A</sup>:</b>	<b>3,039.6</b>	<b>0.0</b>	<b>0.0</b>	<b>3,039.6</b>	<b>20,800.5</b>	<b>0.0</b>

**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 - First Quarter 2022**  
 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
No Pumping/Skimming from Product Recovery System Well During 1st Quarter 2022								

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

**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 - First Quarter 2022**  
 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
No Pumping/Skimming from Product Recovery System Well During 1st Quarter 2022								

<b>Cumulative for the Reporting Period:</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Cumulative Beginning January 2014 - July 2016 <sup>A</sup>:</b>	<b>266.1</b>	<b>307.3</b>	<b>44.9</b>	<b>311.0</b>	<b>2,128.1</b>	
<b>Cumulative Beginning August 2016 - June 2019 <sup>B</sup>:</b>	<b>2,003.0</b>	<b>0.0</b>	<b>0.0</b>	<b>2,003.0</b>	<b>13,707.0</b>	
<b>Cumulative Beginning January 2014 <sup>A</sup>:</b>	<b>2,271.2</b>	<b>307.3</b>	<b>44.9</b>	<b>2,316.1</b>	<b>15,849.3</b>	

**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 - First Quarter 2022**  
 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
No Pumping/Skimming from Product Recovery System Well During 1st Quarter 2022								

<b>Cumulative for the Reporting Period:</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Cumulative Beginning April 2016 - July 2016 <sup>A</sup>:</b>	<b>54.5</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>54.5</b>	<b>373.0</b>
<b>Cumulative Beginning August 2016 - June 2019 <sup>B</sup>:</b>	<b>62.5</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>62.5</b>	<b>427.7</b>
<b>Cumulative Beginning April 2016 <sup>A</sup>:</b>	<b>117.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>117.0</b>	<b>800.7</b>

**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 - First Quarter 2022**  
 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
No Pumping/Skimming from Product Recovery System Well During 1st Quarter 2022								

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

**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
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

**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)
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
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



**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)
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
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

**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)
07/19/17	5	GW-2, GW-15, GW-16	8015M & 8260B	<b>75 J</b>	<40	<b>3.4</b>	<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	<b>80 J</b>	<40	<b>4.0</b>	<0.30	<0.20	<0.40	<0.30	<7.0	<b>0.88 J</b>	<0.50	<0.40	<0.30
09/13/17		GW-2, GW-15, GW-16	8015M & 8260B	<b>84 J</b>	<40	<0.20	<0.30	<0.20	<0.40	<0.30	<7.0	<b>0.69 J</b>	<0.50	<0.40	<0.30
10/16/17		GW-2, GW-15, GW-16	8015M & 8260B	<b>64 J</b>	<40	<b>3.7</b>	<0.30	<0.20	<0.40	<0.30	<7.0	<b>0.54 J</b>	<0.50	<0.40	<0.30
11/13/17		GW-2, GW-15, GW-16	8015M & 8260B	<b>78 J</b>	<40	<b>4.5</b>	<0.30	<0.20	<0.40	<0.30	<7.0	<b>0.54 J</b>	<0.50	<0.40	<0.30
12/11/17	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	<b>2.8</b>	<0.30	<0.20	<0.40	<0.30	<b>8.8 J</b>	<0.40	<0.50	<0.40	<0.30
01/11/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<b>73 J</b>	<40	<b>2.0</b>	<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	<b>130</b>	<40	<b>5.3</b>	<0.30	<0.20	<0.40	<0.30	<7.0	<b>0.49 J</b>	<0.50	<0.40	<0.30
03/20/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	<b>4.4</b>	<0.30	<0.20	<0.40	<0.30	<7.0	<b>0.47 J</b>	<0.50	<0.40	<0.30
04/02/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<b>65 J</b>	<40	<b>2.9</b>	<0.30	<0.20	<0.40	<0.30	<7.0	<b>0.50 J</b>	<0.50	<0.40	<0.30
05/02/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<b>130</b>	<40	<b>2.5</b>	<0.30	<0.20	<0.40	<0.30	<7.0	<b>0.74 J</b>	<0.50	<0.40	<0.30
06/04/18		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	<b>0.74</b>	<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	<b>1.1</b>	<0.30	<0.20	<0.40	<0.30	<7.0	<b>0.41 J</b>	<0.50	<0.40	<0.30
08/06/18		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	<b>3.1</b>	<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	<b>0.38 J</b>	<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	<b>2.4</b>	<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	<b>2.0</b>	<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	<b>170</b>	<100	<0.5	<2.0	<2.0	<2.0	<2.0	<10	<2.0	<2.0	<2.0	<2.0
01/08/19		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	--	<40	<b>1.4</b>	<0.30	<0.20	<0.40	<0.30	<7.0	<b>0.92 J</b>	<0.50	<0.40	<0.30
02/06/19	9	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	<b>1.4</b>	<0.30	<0.20	<b>0.52 J</b>	<0.30	<7.0	<b>0.49 J</b>	<0.50	<0.40	<0.30
01/30/20	10,11	GW-13, GW-15, GW-16	8015B	<b>790</b>	--	--	--	--	--	--	--	--	--	--	--
03/11/20	10,11	GW-15, GW-16	8015B & EPA 624	<b>370</b>	--	<5.0	<5.0	<5.0	<1.0	<0.5	<10	<0.5	<0.5	<0.5	<0.5
04/22/20		GW-16	8015B	<94	<50	--	--	--	--	--	--	--	--	--	--
05/27/20		GW-16, GMW-31, GW-14R	8015B & EPA 624	<b>610</b>	<b>490</b>	<b>46</b>	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<1.0	<1.0
06/24/20		GW-16, GMW-31, GW-14R	8015B & EPA 624	<b>850</b>	<b>640</b>	<b>79</b>	<5.0	<5.0	<10	<5.0	<b>12</b>	<b>6.4</b>	<5.0	<1.0	<1.0
07/24/20	12	GW-16, GMW-31, GW-14R	8015B & EPA 624	<b>1,000</b>	<b>150</b>	<b>6.2</b>	<5.0	<5.0	<10	<5.0	<b>18</b>	<5.0	<5.0	<1.0	<1.0

**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)
11/24/20	12	GW-16, GMW-31, GW-14R	8015B & EPA 624	<b>430</b>	<b>190</b>	<b>5.3</b>	<5.0	<5.0	<10	<5.0	<b>12</b>	<5.0	<5.0	<1.0	<1.0
01/28/21	13	GW-16, GMW-31, GW-14R	8015B & EPA 624	<b>860</b>	<b>410</b>	<b>34</b>	<5.0	<5.0	<10	<5.0	<b>25</b>	<5.0	<5.0	<1.0	<1.0
02/10/21		GW-16, GMW-31, GW-14R	8015B & EPA 624	<b>1,500</b>	<b>740</b>	<b>48</b>	<5.0	<5.0	<10	<5.0	<b>30</b>	<b>5.2</b>	<5.0	<1.0	<1.0
05/05/21		GW-16, GMW-31, GW-14R	8015B & EPA 624	<b>470</b>	<b>190</b>	<b>8.6</b>	<5.0	<5.0	<10	<5.0	<b>14</b>	<5.0	<5.0	<1.0	<1.0
06/11/21		GW-16, GMW-31, GW-14R	8015B & EPA 624	<b>540</b>	<b>260</b>	<b>7.0</b>	<5.0	<5.0	<10	<5.0	<b>17</b>	<5.0	<5.0	<1.0	<1.0
07/09/21		GW-16, GMW-31, GW-14R	8015B & EPA 624	<b>480</b>	<b>250</b>	<b>6.2</b>	<5.0	<5.0	<10	<5.0	<b>21</b>	<5.0	<5.0	<1.0	<1.0
08/18/21		GW-16, GMW-31, GW-14R	8015B & EPA 624	<b>500</b>	<b>110</b>	<5.0	<5.0	<5.0	<10	<5.0	<b>26</b>	<5.0	<5.0	<1.0	<1.0
09/27/21		GMW-31, GW-14R	8015B & EPA 624	<b>800</b>	<b>220</b>	<5.0	<5.0	<5.0	<10	<5.0	<b>33</b>	<5.0	<5.0	<1.0	<1.0
10/20/21		GMW-31, GW-14R	8015B & EPA 624	<b>760</b>	<b>140</b>	<5.0	<5.0	<5.0	<10	<5.0	<b>36</b>	<5.0	<5.0	<1.0	<1.0
11/10/21		GW-16, GMW-31, GW-14R	8015B & EPA 624	<b>550</b>	<50	<5.0	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<1.0	<1.0
12/07/21		GW-16, GMW-31, GW-14R	8015B & EPA 624	<b>620</b>	<b>120</b>	<5.0	<5.0	<5.0	<10	<5.0	<b>39</b>	<5.0	<5.0	<1.0	<1.0
01/19/22		GW-16, GW-14R	8015B & EPA 624	<b>830</b>	<b>210</b>	<5.0	<5.0	<5.0	<10	<5.0	<b>36</b>	<5.0	<5.0	<1.0	<1.0
02/16/22		GW-16, GW-14R	8015B & EPA 624	<b>420</b>	<b>55</b>	<5.0	<5.0	<5.0	<10	<5.0	<b>46</b>	<5.0	<5.0	<1.0	<1.0
03/09/22		GW-16, GW-14R	8015B & EPA 624	<b>460</b>	<b>67</b>	<5.0	<5.0	<5.0	<10	<5.0	<b>42</b>	<5.0	<5.0	<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 manually shut down on 6/30/20 and largely remained off-line through early January 2021 with the exception of a few operational days and/or weeks to collect system removal performance samples.

13 = GWETS restarted on 1/5/21.



**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	--	--

**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
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	--	--
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	--	--

**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
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	--	--	--	--	--	--
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

**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
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	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+
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
07/17/20		HW-1, HW-7, HW-9	127	--	--	387	--	3,470
07/20/20		HW-1, HW-7, HW-9	127	--	--	339	--	1,893
07/31/20		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
08/24/20		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

**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
09/24/20		HW-1, HW-7, HW-9	42	--	--	311	--	34
09/28/20		HW-1, HW-7, HW-9	115	--	--	471	--	1,783
10/05/20		HW-1, HW-7, HW-9	122	--	--	400	--	3,011
10/12/20		HW-1, HW-7, HW-9	77	--	--	219	--	1,542
10/19/20		HW-1, HW-7, HW-9	101	--	--	1,791	--	1,771
10/28/20		HW-1, HW-7, HW-9	102	--	--	171	--	69
11/5/20		HW-1, HW-7, HW-9	107	--	49	165	124	1,421
11/16/20		HW-1, HW-5, HW-7, HW-9	64	--	25	134	--	964
11/24/20		HW-1, HW-5, HW-7, HW-9	46	--	104	--	--	993
1/15/21		HW-1, HW-9, HW-5, HW-7	48	--	72	56	--	976
2/4/21		HW-1, HW-9, HW-5, HW-7	139	--	77	59	--	421
2/8/21		HW-1, HW-9, HW-5, HW-7	48	--	--	--	--	--
2/24/21		HW-1, HW-9, HW-5, HW-7	43	--	6	35	--	1,287
3/4/21		HW-1, HW-8, HW-9, HW-5, HW-7	48	--	33	295	46	535
3/8/21	22	HW-1, HW-8, HW-9, HW-5, HW-7	48	--	19	231	3	458
3/15/21		HW-1, HW-9, HW-5, HW-7	37	--	48	245	--	1,192
3/24/21		HW-1, HW-9, HW-5, HW-7	43	--	63	73	--	1,274
3/30/21		HW-1, HW-9, HW-5, HW-7	--	--	73	68	--	1,150
4/6/21		HW-1, HW-9, HW-5, HW-7	43	--	49	346	--	592
4/15/21		HW-1, HW-9, HW-5, HW-7	33	--	33	193	--	605
4/19/21		HW-1, HW-9, HW-5, HW-7	71	--	42	--	--	369
4/26/21		HW-1, HW-9, HW-5, HW-7	58	--	61	141	--	456
5/10/21		HW-1, HW-9, HW-5, HW-7	144	--	100	364	--	833
5/19/21		HW-1, HW-9, HW-5, HW-7	61	--	64	104	--	583
5/28/21		HW-1, HW-9, HW-5, HW-7	46	--	15	121	--	675
6/4/21		HW-1, HW-9, HW-5, HW-7	25	--	7	121	--	879
6/16/21		HW-1, HW-9, HW-5, HW-7	70	--	16	101	--	493
6/21/21		HW-1, HW-9, HW-5, HW-7	37	--	14	136	--	727
6/28/21		HW-1, HW-9, HW-5, HW-7	21	--	5	133	--	840
7/7/21		HW-1, HW-9, HW-5, HW-7	79	--	37	153	--	613



**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
7/16/21		HW-1, HW-9, HW-5, HW-7	31	--	21	102	--	448
7/23/21		HW-1, HW-9, HW-5, HW-7	43	--	18	118	--	425
7/28/21		HW-1, HW-9, HW-5, HW-7	49	--	45	137	--	697
8/3/21		HW-1, HW-9, HW-5, HW-7	27	--	24	125	--	515
8/9/21		HW-1, HW-9, HW-5, HW-7	41	--	46	68	--	715
8/18/21		HW-1, HW-9, HW-5, HW-7	22	--	12	102	--	698
8/25/21		HW-1, HW-9, HW-5, HW-7	18	--	20	68	--	479
8/31/21		HW-1, HW-9, HW-5, HW-7	13	--	18	46	--	455
9/14/21		HW-1, HW-9, HW-5, HW-7	59	--	54	201	--	710
9/20/21		HW-1, HW-9, HW-5, HW-7	63	--	45	153	--	634
9/27/21		HW-1, HW-9, HW-5, HW-7	22	--	14	92	--	788
10/5/21		HW-1, HW-9, HW-5, HW-7	54	--	29	137	--	663
10/13/21		HW-1, HW-9, HW-5, HW-7	17	--	1	90	--	373
10/18/21		HW-1, HW-9, HW-5, HW-7	38	--	7	121	--	621
10/27/21		HW-1, HW-9, HW-5, HW-7	23	--	26	184	--	463
11/1/21		HW-1, HW-9, HW-5, HW-7	65	--	78	145	--	917
11/9/21		HW-1, HW-9, HW-5, HW-7	26	--	14	130	--	546
11/17/21		HW-1, HW-9, HW-5, HW-7	16	--	3	165	--	427
11/30/21		HW-1, HW-9, HW-5, HW-7	14	--	40	187	--	376
12/6/21		HW-1, HW-9, HW-5, HW-7	18	--	5	151	--	588
12/13/21		HW-1, HW-9, HW-5, HW-7	12	--	3	160	--	831
12/28/21		HW-1, HW-9, HW-5, HW-7	10	--	2	786	--	812
1/6/22		HW-1, HW-9, HW-5, HW-7	29	--	43	17	--	525
1/10/22		HW-1, HW-9, HW-5, HW-7	--	--	--	--	--	--
1/11/22		HW-1, HW-9, HW-5, HW-7	79	--	75	853	--	425
1/18/22		HW-1, HW-9, HW-5, HW-7	38	--	22	1,373	--	796
1/26/22		HW-1, HW-9, HW-5, HW-7	11	--	12	0	--	535
2/1/22		HW-1, HW-9, HW-5, HW-7	17	--	108	1,414	--	1,130
2/4/22		HW-1, HW-9, HW-5, HW-7	--	--	--	--	--	--
2/9/22		HW-1, HW-9, HW-5, HW-7	22	--	6	930	--	514

**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
2/15/22		HW-1, HW-9, HW-5, HW-7	55	--	63	802	--	1,082
2/22/22		HW-1, HW-9, HW-5, HW-7	25	--	23	159	--	902
3/1/22		HW-1, HW-9, HW-5, HW-7	22	--	47	168	--	1,050
3/9/22		HW-1, HW-9, HW-5, HW-7	34	--	58	652	--	715
3/15/22		HW-1, HW-9, HW-5, HW-7	44	--	4	84	--	843
3/17/22		HW-1, HW-9, HW-5, HW-7	--	--	--	--	--	--
3/21/22		HW-1, HW-9, HW-5, HW-7	41	--	4	420	--	381
3/31/22		HW-1, HW-9, HW-5, HW-7	47	--	25	325	--	814

**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.
- 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 HW-8 and HW-5 due to low PID readings. HW-7 and HW-9 opened 100%
- 22 = Closed off HW-8 due to low PID readings.

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

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



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

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Interval in Feet Below Grade																																					
			Truckline #1, VECV #17				Truckline #3, VECV #14					Truckline #3, VECV #15				Truckline #4, VECV #16				Truckline #4, VECV #18				Truckline #5, VECV #19				Truckline #5, VECV #20												
			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-20	TFR-23	TFR-24	TFR-30	TFR-33	TFR-29	TFR-32	TFR-35	TFR-37	TFR-17	TFR-18	TFR-19	TFR-22	TFR-25	TFR-11	TFR-13	TFR-14	TFR-15	TFR-16	TFR-5	TFR-7	TFR-9	TFR-10	TFR-12				
06/27/18	1.2	HW-1, HW-5, HW-7, VE-38, VE-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
7/16/2018	1.2	HW-1, HW-5, HW-7, VE-38, VE-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
7/30/2018	1.2	HW-1, HW-5, HW-7, VE-38, VE-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
08/30/18	1.2	HW-1, HW-5, HW-7, VE-38, VE-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/03/18	1.2	HW-1, HW-5, HW-7, RW-1, 4, 5, 9, -10, -11, -14, -18, VE-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -51, TFR-5, 7, 9, -10, -11, -13, -16, -30, -33, -35, -36, -37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03/28/19	1.2	HW-1, HW-5, HW-7, RW-1, 4, 5, 9, -10, -11, -14, -18, VE-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/03/19	1.2	HW-1, HW-5, HW-7, RW-1, 4, 5, 9, -10, -11, -14, -18, VE-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -51, TFR-5, 7, 9, -10, -11, -13, -16, -30, -33, -35, -36, -37	--	--	--	--	--	--	--	--	--	--	--	7,520	17,360	--	--	5	--	4	--	--	15,540	--	--	9	3,950	--	--	556	120	3,290	1,457	71	--	--	--			
06/05/19	1.2	HW-1, HW-5, HW-7, RW-1, 4, 5, 9, -10, -11, -14, -18, VE-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -51, TFR-5, 7, 9, -10, -11, -13, -16, -30, -33, -35, -36, -37	--	--	--	--	6,960	9,150	--	4,060	--	--	32,760	9,990	13,510	13,850	--	--	--	--	--	16,230	19,200	22,980	32,760	--	--	7,530	--	2,450	203	--	3,260	1,890	--	1,020	--	--		
07/22/19		(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-16), (TFR-7, TFR-9, TFR-12)	23,400	11,410	6,560	3,280	866	3,020	4,460	2,100	813	1,667	--	--	32,760	12,600	11,250	32,760	--	--	--	--	9,420	7,780	19,760	32,760	--	--	3,790	460	1,180	154	--	2,310	2,410	--	1,470	--		
08/26/19	4	(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-16), (TFR-7, TFR-9, TFR-12)	2,040	382	578	4	146	3,060	2,960	2,150	510	3,180	59	2,230	32,760	7,350	5,270	6,480	40	22	13	24	7,050	6,100	16,220	32,760	98	11	2,760	709	939	95	35	1,715	1,740	26	942	--		
09/23/19		(TFR-21, TFR-26, TFR-27, 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-16), (TFR-7, TFR-9, TFR-12)	6,530	3,520	2,560	--	383	3,150	3,700	3,380	348	3,070	--	529	32,760	3,400	1,840	14,420	--	--	--	--	5,040	4,230	12,600	28,450	--	--	1,811	318	260	51	--	1,245	1,220	--	1,218	--		
12/06/19	4	(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, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12)	7,350	4,360	3,056	2,745	574	3,220	6,060	4,960	4,210	3,490	10	2,260	34,000	5,960	3,730	22,400	68	144	28	118	5,180	3,008	11,480	24,000	204	4	4,030	359	814	8	7	1,226	1,460	24	938	--		
01/08/20		(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-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12)	8,400	4,260	3,400	2,600	800	5,530	4,330	5,750	1,500	3,180	--	4,000	27,950	6,100	3,200	--	--	--	--	4,300	2,400	11,640	28,000	--	--	4,800	150	960	--	--	1,375	1,520	--	310	--			
03/05/20	4	(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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15, TFR-16), (TFR-7, TFR-9, TFR-12)	6,920	3,250	1,916	3,238	660	4,620	3,410	2,612	162	1,946	6	1,074	27,850	4,370	2,688	4,080	85	3,940	42	46	3,064	2,560	11,180	32,760	442	8	3,080	74	1,140	12	2	1,320	1,222	15	116	--		
05/01/20		(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-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12)	6,140	2,512	1,650	2,170	546	3,372	3,446	3,476	1,286	1,886	--	1,520	21,530	5,296	1,970	--	--	--	--	3,123	2,136	10,532	29,750	--	--	2,460	146	574	--	--	572	715	--	197	--			
06/02/20		(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-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12)	5,720	2,130	1,490	2,210	335	1,845	2,450	1,810	36	1,254	--	1,135	19,750	3,780	2,036	--	--	--	--	2,610	1,930	7,820	--	--	1,686	224	220	--	--	306	424	--	155	--				
09/30/20	4	(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, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12)	5,780	1,958	702	964	300	1,100	2,040	1,044	120	1,630	58	184	19,180	1,374	590	7,800	120	62	54	72	1,208	936	6,590	27,830	2,062	36	1,000	100	70	32	22	138	272	20	274	--		
10/22/20		(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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12)	5,960	2,234	802	1,355	304	890	1,878	636	164	1,455	52	286	20,150	1,550	725	5,680	--	--	--	--	1,076	930	6,780	27,400	10,950	--	1,226	120	76	--	--	132	312	--	404	--		
01/21/21	4	(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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12)	1,588	572	668	286	96	444	3,426	3,674	564	3,650	6	38	10,430	596	746	8,130	--	--	--	--	1,412	822	2,674	17,420	6,190	4	2,343	280	278	6	0	388	536	2	462	--		



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

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Interval in Feet Below Grade																																		
			Truckline #1, VECV #17					Truckline #3, VECV #14					Truckline #3, VECV #15					Truckline #4, VECV #16					Truckline #4, VECV #18					Truckline #5, VECV #19					Truckline #5, VECV #20				
			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-20	TFR-23	TFR-24	TFR-30	TFR-33	TFR-29	TFR-32	TFR-35	TFR-36	TFR-37	TFR-17	TFR-18	TFR-19	TFR-22	TFR-25	TFR-11	TFR-13	TFR-14	TFR-15	TFR-16	TFR-5	TFR-7	TFR-9	TFR-10	TFR-12
03/05/21		(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-20, 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).	3,934	1,544	848	874	302	676	3,860	4,010	746	3,828	30	66	16,240	708	912	12,440	--	--	--	--	2,258	1,174	4,890	28,750	9,150	--	2,648	270	342	--	--	278	562	--	212
05/13/21		(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-20, 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).	3,858	1,428	778	588	220	668	2,296	1,954	246	1,848	128	154	12,170	786	584	9,220	--	--	--	--	2,040	500	2,552	19,150	5,690	--	2,160	184	316	--	--	38	490	--	70
07/23/21		(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-20, 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).	3,549	1,492	725	656	275	394	1,396	1,106	264	884	8	20	9,570	458	254	7,780	--	--	--	--	1,048	280	2,132	17,140	3,860	--	1,474	110	174	--	--	86	348	--	62
09/16/21		(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-20, 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).	3,625	1,520	796	620	250	205	1,250	335	940	1,628	12	14	7,130	406	205	8,150	--	--	--	--	968	305	2,084	15,850	4,150	--	1,380	155	210	--	--	102	354	--	98
01/21/22		(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-20, 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).	2,544	1,265	710	486	74	306	965	1,336	150	904	54	76	10,520	376	416	6,850	--	--	--	--	654	220	1,455	15,750	4,845	--	1,446	126	34	--	--	40	268	--	200
03/08/22		(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-20, 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).	2,836	1,220	740	520	138	280	1,025	1,122	325	1,406	46	102	9,865	412	315	6,620	--	--	--	--	722	265	2,130	15,750	4,260	--	1,122	178	126	--	--	88	244	--	266

**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-35 through RW-38, and RW47 through RW-50 tied into thermal oxidizer VES during late June 2018 following installation per SGF's July 2018 Well Installation Completion Report.  
 2 = See Tables 9A, 9C and 9D for applicable HW, VEV and RW on line well field vapor readings.  
 3 = New Thermal Oxidizer system startup on 3/13/19.  
 4 = Closed wells were opened to check for rebound concentrations.  
 \* = Carbon vapor extraction system and thermal oxidizer vapor extraction system.



**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	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
			15 - 35	17 - 37	18 - 38	14 - 34	19 - 39	10 - 25	10 - 25	13 - 33	17 - 37	16 - 36	10 - 25	10 - 25	18.5 - 38.5	14 - 34	18 - 38	10 - 25	10 - 25	15 - 35	14 - 34	17 - 37	14 - 34	14 - 34	15 - 35	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
07/06/16	6,10	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	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	
			15 - 35	17 - 37	18 - 38	14 - 34	19 - 39	10 - 25	10 - 25	13 - 33	17 - 37	16 - 36	10 - 25	10 - 25	18.5 - 38.5	14 - 34	18 - 38	10 - 25	10 - 25	15 - 35	14 - 34	17 - 37	14 - 34	14 - 34	15 - 35	14 - 34	
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	
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		(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	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	
09/23/19		(RW-1), (RW-18), (RW-13), (RW-4), RW-5, RW-9, RW-10)	682	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	177	258	306	179	145	679	637	



**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	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
			15 - 35	17 - 37	18 - 38	14 - 34	19 - 39	10 - 25	10 - 25	13 - 33	17 - 37	16 - 36	10 - 25	10 - 25	18.5 - 38.5	14 - 34	18 - 38	10 - 25	10 - 25	15 - 35	14 - 34	17 - 37	14 - 34	14 - 34	15 - 35	14 - 34
12/03/19	7	(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		(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	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
10/27/20		(RW-1), (RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10)	834	--	--	--	--	--	--	--	36	--	--	--	60	--	--	--	--	1,262	0	108	140	--	1,028	274
01/21/21	7	(RW-1), (RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10)	604	4	0	0	0	0	0	0	40	0	0	0	116	0	6	0	0	1,676	4	6	140	2	2,086	28
03/05/21		(RW-1), (RW-7), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10)	740	--	--	--	--	--	--	--	6	--	--	--	46	--	--	--	--	442	--	22	160	--	1,660	142
04/27/21		(RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10)	702	--	--	--	--	--	--	--	--	--	--	--	16	--	--	--	--	308	--	60	114	--	1,650	76
07/22/21		(RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10)	652	--	--	--	--	--	--	--	--	--	--	--	27	--	--	--	--	206	--	40	206	--	995	42
09/02/21		(RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10)	722	--	--	--	--	--	--	--	--	--	--	--	19	--	--	--	--	272	--	55	187	--	1,121	36
01/14/22		(RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10)	514	--	--	--	--	--	--	--	--	--	--	--	34	--	--	--	--	64	--	34	130	--	1,200	28
03/11/22		(RW-1), (RW-13), (RW-3, RW-4, RW-9, RW-10)	424	--	--	--	--	--	--	--	--	--	--	--	4	--	--	--	--	44	--	30	90	--	968	26

**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 9D**  
**Historical Summary of Field Vapor Readings - Southern Area Vertical Wells**  
 DFSF, 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																																							
			Trunkline #2, VECV #6		Trunkline #2, VECV #7					Trunkline #2, VECV #8				Trunkline #2, VECV #9				Trunkline #2, VECV #10				Trunkline #2, VECV #11				Trunkline #2, VECV #12				Trunkline #2, VECV #13												
			RW-21	RW-23	VEV-39	RW-30	RW-31	RW-32	RW-34	VEV-40	RW-26	RW-28	RW-24	RW-25	RW-27	RW-33	RW-43	RW-19	RW-20	RW-22	RW-29	RW-45	RW-35	RW-36	RW-39	RW-40	RW-44	RW-36	RW-37	RW-41	RW-42	RW-46	RW-47	RW-48	RW-49	RW-50						
			13-33	13-33	13-33	13-33	13-33	13-33	13-33	13-33	13-33	13-33	14-33	15-33	13-33	13-33	13-33	13-33	13-33	13-33	13-33	13-33	13-33	13-33	15-33	13-33	13-33	13-33	13-33	13-33	13-33	13-33	13-33	13-33	13-33	13-33						
08/09/17	1,2	HW-1, HW-5, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	160	787	--	6,550	7,165	820	--	--	4,340	8,420	1,525	--	--	1,230	--	129	1,775	620	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
09/07/17	2	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	110	141	--	8,240	3,400	715	--	--	3,290	8,080	1,423	--	--	836	--	58	1,379	1,123	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
10/12/17	2	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	165	340	--	5,800	5,200	955	--	--	3,880	9,190	1,200	--	--	900	--	220	1,800	818	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
11/02/17	2	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	140	250	--	7,330	4,300	1,060	--	--	2,900	6,400	1,770	--	--	620	--	170	1,410	909	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
12/11/17	2	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	120	230	--	6,400	3,900	700	--	--	3,400	7,170	1,605	--	--	510	--	190	1,660	764	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
03/14/18		HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, 4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	80	320	--	2,900	1,730	800	--	--	1,800	3,100	950	--	--	180	--	280	840	660	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
06/27/18	3	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	55	1,896	--	32	80	421	80	--	--	1,821	5,000	459	89	1,215	843	--	43	42	2,595	2,563	--	416	134	24	1,782	--	452	1,509	849	3,040	--	191	886	728	56					
07/30/18	3	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	--	--	--	1,630	1,253	--	--	--	3,261	>15,000	1,383	--	767	1,283	--	--	2,928	1,341	--	522	--	--	778	--	2,166	1,930	--	>15,000	--	3,968	672	1,008	692							
08/29/18	3	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	--	475	--	4,160	3,378	1,715	1,630	--	>15,000	2,127	>15,000	1,320	--	699	1,324	--	--	2,558	1,721	--	658	--	--	856	--	2,616	2,049	4,925	>15,000	--	4,460	841	2,359	674						
12/03/18	3	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	--	389	--	4,373	4,284	--	3,378	--	--	>15,000	857	--	2,685	1,013	--	--	--	362	--	--	532	--	--	538	--	1,507	1,123	>15,000	>15,000	--	--	596	61	309						
03/27/19	3	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	--	402	--	1,613	3,764	1,013	4,284	--	--	>15,000	316	4,400	124	--	214	975	--	--	402	--	--	399	--	--	1,116	--	961	715	5,575	>15,000	--	>15,000	549	2,740	--					
05/08/19	3	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	--	14	--	--	--	283	3,764	--	--	--	--	--	--	7	--	--	--	569	172	--	--	--	14	94	--	--	>15,000	248	--	1,107	709	2,740	--							
05/31/19	3	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	--	13	--	1,326	896	325	--	--	246	3,960	85	--	80	181	--	--	--	493	223	--	--	--	--	--	--	--	--	--	--	--	42	--	--							
06/05/19		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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	177	--	--	--	1,414	--	384	639	1,107	561						
07/22/19		(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)	--	23	--	827	679	293	--	2,250	370	3,680	145	--	75	205	61	--	--	634	311	65	123	--	--	203	224	461	245	1,743	1,465	--	363	780	1,175	688						
08/26/19	7	(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)	4	11	10	431	407	331	15	25	2,460	229	2,440	154	12	64	189	42	10	10	505	211	59	98	74	7	135	179	235	153	986	813	75	397	794	950	630					
09/23/19		(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)	--	12	--	453	340	325	--	23	1,670	233	1,752	89	--	47	180	44	--	--	578	320	29	101	--	--	126	15	316	264	1,113	750	--	147	313	128	267					
12/04/19	7	(RW-30, RW-31, RW-32), (VEW-38, VEW-40, RW-26, RW-28), (RW-22, RW-29), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	0	0	8	392	226	160	18	18	1,838	314	2,454	10	14	4	140	8	--	--	--	--	120	2	4	170	24	344	216	1,126	638	28	270	504	80	400						
01/08/20	3	(RW-30, RW-31, RW-32), (VEW-38, VEW-40, RW-26, RW-28), (RW-22, RW-29), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	--	--	--	630	330	260	--	<20	1,920	222	2,700	--	--	--	144	--	--	--	--	--	94	--	--	104	--	352	280	1,100	600	--	330	640	84	316						
03/05/20	3,7	(RW-21, RW-23), (VEW-39, RW-30, RW-31, RW-32, RW-34), (VEW-38, VEW-40, RW-26, RW-28), (RW-24, RW-25, RW-27, RW-33, RW-43), (RW-19, RW-20, RW-22, RW-29, RW-45), (RW-35, RW-36, RW-39, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	0	0	4	454	536	240	0	8	1,945	470	3,940	4	4	0	126	4	4	4	508	346	2	46	0	0	80	2	270	182	1,192	688	4	292	520	196	294					
05/01/20		(RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-22, RW-29), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	--	--	--	388	254	186	--	--	1,720	354	1,800	--	--	141	--	--	--	284	246	--	2	--	--	96	--	259	134	1,252	572	--	302	997	155	235						
05/21/20		(RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-22, RW-29), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	--	--	--	375	248	188	--	--	1,650	405	2,478	--	--	102	--	--	--	170	82	--	20	--	--	70	--	186	132	1,156	622	--	230	352	212	224						
10/02/20	7	(RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-22, RW-29), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	2	--	4	174	54	68	5	24	750	72	926	--	--	--	66	4	--	--	110	70	16	18	--	4	56	6	252	122	1,044	574	66	54	76	16	128					
10/27/20		(RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-22, RW-29), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	--	--	--	242	184	116	18	--	1,115	302	2,352	--	--	--	118	--	--	--	184	165	--	16	--	--	86	--	208	162	988	588	--	270	386	10	178					
01/21/21	7	(RW-30), (VEW-40, RW-26, RW-28), (RW-22, RW-29), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	0	0	0	6	0	0	0	0	2	12	0	2	0	0	0	0	0	0	0	0	64	8	0	2	2	0	2	2	0	2	2	96	94	1,156	394	8	166	462	0	104
03/05/21		(RW-21, RW-23), (RW-30), (VEW-38, VEW-40, RW-26, RW-28), (RW-24, RW-25, RW-27, RW-33, RW-43), (RW-22, RW-29, RW-45), (RW-35, RW-36, RW-39, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	8	4	--	282	--	--	--	36	1,144	136	842	10	4	16	42	8	--	--	8	2	--	16	--	--	102	--	196	90	844	524	--	130	288	14	104					
04/29/21		(RW-30), (VEW-38, VEW-40, RW-26, RW-28), (RW-22, RW-29), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	--	--	--	178	--	--	--	2	715	26	388	--	--	22	--	--	--	--	--	--	--	--	--	--	--	208	94	620	412	--	78	74	14	74						
07/22/21		(RW-30), (VEW-38, VEW-40, RW-26, RW-28), (RW-22, RW-29), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	--	--	--	--	--	--	2	738	88	635	--	--	--	60	--	--	--	--	--	--	--	--	--	--	--	184	87	688	362	--	10	18	2	34						





**TABLE 9D**  
**Historical Summary of Field Vapor Readings - Southern 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																																	
			Trunkline #2, VECV #6		Trunkline #2, VECV #7				Trunkline #2, VECV #8				Trunkline #2, VECV #9				Trunkline #2, VECV #10				Trunkline #2, VECV #11				Trunkline #2, VECV #12				Trunkline #2, VECV #13							
			RW-21 13 - 33	RW-23 13 - 33	VEW-39 13 - 33	RW-30 13 - 33	RW-31 13 - 33	RW-32 13 - 33	RW-34 13 - 33	VEW-38 13 - 33	VEW-40 13 - 33	RW-26 13 - 33	RW-28 13 - 33	RW-24 13 - 33	RW-25 13 - 33	RW-27 14 - 33	RW-33 15 - 33	RW-43 13 - 33	RW-19 13 - 33	RW-20 13 - 33	RW-22 13 - 33	RW-29 15 - 33	RW-45 13 - 33	RW-35 13 - 33	RW-36 13 - 33	RW-38 13 - 33	RW-39 15 - 33	RW-40 13 - 33	RW-44 13 - 33	RW-36 13 - 33	RW-37 13 - 33	RW-41 13 - 33	RW-42 15 - 33	RW-46 13 - 33	RW-47 13 - 33	RW-48 13 - 33
09/02/21		(RW-30), (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)	--	--	--	210	--	--	--	2	725	71	586	--	--	--	55	--	--	--	--	--	8	--	--	75	--	136	78	726	351	--	62	54	8	65
10/06/22	7	(RW-30), (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)	0	10	4	160	4	8	12	2	554	30	318	2	0	0	52	0	0	0	0	2	28	0	0	74	8	130	102	716	264	10	--	--	--	--
01/13/22		(RW-30), (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)	--	--	--	160	--	--	--	44	674	140	680	--	--	--	78	--	--	--	--	--	95	--	--	72	--	104	454	706	212	--	30	6	0	48
03/01/22		(RW-30), (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)	--	--	--	155	--	--	--	35	586	105	706	--	--	--	66	--	--	--	--	--	43	--	--	75	--	115	95	690	275	--	42	21	2	55

**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-20 through RW-24, RW-26, and RW-28 through RW-33 initially tied into carbon VES during early August 2017 following installation per SG's June 30, 2017 Remediation Well Installation Update Report.  
 2 = For full list of wells on line, see SG'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 9C for applicable RW, VEW and RW on line well field vapor readings.  
 4 = Wells RW-20 through RW-24, RW-26, and RW-28 through RW-33 disconnected from carbon VES and tied into thermal oxidizer VES upon 01/08/18 startup (see SG's May 15, 2018 Remediation Status Report - First Quarter 2018 for details).  
 5 = Wells RW-19, RW-25, RW-27, RW-34, and RW-39 through RW-46 tied into thermal oxidizer VES during late June 2018 following installation per SG's July 2018 Well Installation Completion 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
	11/05/20			107	8.3	34	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	02/24/21			43	8.3	34	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	07/07/21			79	17	68	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	10/18/21			38	14	58	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0
01/18/22		38	6.4	26	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0		
HW-3 *	07/09/14	1	8015 & 8260B	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
11/05/20		49	<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		
02/24/21		6	<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		

**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-5	07/07/21		8015 & 8260B	37	<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
	10/18/21			7	<4.9	<20	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0
	01/18/22			22	<4.9	<20	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0
HW-7 *	07/09/14	1		4,176	2,055	8,400	3.1	10	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0
	10/23/14			2.0	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0
	04/27/15			810	590	2,400	3.4	11	0.69	2.6	0.32	1.4	0.20	0.88	1.2	5.0	<0.55	<2.0
	08/10/15			732	950	3,900	6.3	20	0.34	1.3	0.64	2.8	0.30	1.3	2.3	10	<0.55	<2.0
	02/08/16			240	190	780	1.2	3.8	0.37	1.4	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	04/06/16			220	170	710	1.4	4.4	0.53	2.0	<0.12	<0.50	<0.12	<0.50	0.28	1.2	<0.55	<2.0
	08/08/16			230	170	710	2.0	6.5	0.56	2.1	<0.12	<0.50	<0.12	<0.50	0.32	1.4	<0.55	<2.0
	01/18/17	2		200	110	370	2.0	6.5	0.82	3.1	0.12	0.52	0.12	0.51	0.35	1.5	<0.55	<2.0
	05/03/17			260	240	1,000	2.1	6.6	1.2	4.6	0.15	0.64	0.15	0.66	0.51	2.2	<0.55	<2.0
	11/02/17			334	210	860	2.3	7.4	1.2	4.4	0.18	0.78	0.16	0.68	0.51	2.2	<0.55	<2.0
	02/12/18			290	230	960	1.3	4.0	0.48	1.8	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	03/28/18			270	190	760	0.59	1.9	0.21	0.79	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	08/06/18			--	210	840	1.30	4.2	0.80	3.00	0.12	0.53	0	1	0	2	<0.55	<2.0
	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		
11/05/20		165	18	72	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
02/24/21		35	6.6	27	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
07/07/21		153	34	140	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
10/18/21		121	29	120	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0		
01/18/22		1,373	460	1,900	<0.078	<0.25	0.069	0.26	<0.058	<0.25	0.090	0.39	0.12	0.52	<0.28	<1.0		
HW-8	11/25/19	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	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	
11/05/20		124	<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	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	
	11/05/20		1,421	340	1,400	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0	
	02/24/21		1,287	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	
07/07/21		613	160	670	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0		
10/18/21		621	180	740	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	0.12	0.53	<0.28	<1.0		
01/18/22		796	210	840	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0		
VEW-32	07/09/14	1	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	

**TABLE 10**  
**Historical Summary of Analytical Vapor Sampling Results - Individual Wells**  
 DFSP, Norwalk  
 15306 Norwalk Blvd., Norwalk, CA

Well ID	Sample Date	Notes	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		MTBE	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
VEW-32	04/06/16		8015 & 8260B	60	17	68	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/17			9.0	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
VEW-33	07/09/14	1		10	<4.9	<20	<0.2	<0.5	<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		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		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		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
	04/27/15			5.7	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	08/10/15			2.2	8.1	33	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/17			6.7	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
VEW-37	07/09/14	1	20	<4.9	<20	<0.2	<0.5	<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	
VEW-39	06/27/17	3	51	8.3	34	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	07/27/17		130	37	150	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	09/07/17		--	1,100	4,300	0.41	1.3	<0.13	<0.50	0.78	3.4	<0.12	<0.50	0.62	2.7	<0.55	<2.0	
VEW-40	06/27/17	3	190	29	120	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	07/27/17		3,018	2,700	11,000	0.28	0.88	<0.13	<0.50	0.99	4.3	<0.12	<0.50	0.81	3.5	<0.55	<2.0	
	09/07/17		--	8,800	36,000	1.4	4.4	<0.13	<0.50	8.5	37	0.23	1.0	5.3	23	<0.55	<2.0	
	06/27/18	4	9,200	7,600	31,000	0.97	3.1	<0.13	<0.50	3.7	16	0.25	1.1	2.2	9.0	<0.55	<2.0	
RW-1	08/09/17	5	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	
	09/07/17		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	
RW-2	08/09/17	5	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	
	03/14/18		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	
RW-3	08/09/17	5	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	
	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	

**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-4	03/14/18	6	8015 & 8260B	598	460	1,900	1.8	5.9	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-5	03/14/18	6		4,600	2,900	12,000	1.7	5.5	<0.13	<0.50	0.78	3.4	0.18	0.76	2.5	11	<0.55	<2.0
RW-7	08/09/17	5		120	320	1,300	<0.16	<0.50	0.14	0.53	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	03/14/18			54	64	260	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-9	08/09/17	5		1,164	1,100	4,500	0.44	1.4	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	09/07/17			320	240	1,000	0.75	2.4	<0.13	<0.50	0.19	0.83	<0.12	<0.50	0.41	1.8	<0.55	<2.0
	03/14/18			2,824	2,000	8,100	18	59	<0.13	<0.50	5.1	22	3.0	13	9.4	41	<0.55	<2.0
RW-10	03/14/18	6		>10,000	14,000	58,000	14	45	<0.13	<0.50	0.69	3.0	0.53	2.3	5.8	25	<0.55	<2.0
RW-11	03/14/18	6		420	230	950	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-12	08/09/17	5		76	100	420	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	03/14/18			5.5	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-13	08/09/17	5		2,440	1,800	7,400	1.6	5.0	<0.13	<0.50	0.22	0.95	0.28	1.2	1.7	7.4	<0.55	<2.0
	09/07/17			2,870	1,800	7,400	5.9	19.0	<0.13	<0.50	1.8	7.9	1.5	6.4	6.4	28	<0.55	<2.0
	03/14/18			2,000	7,300	30,000	9.1	29	<0.13	<0.50	0.64	2.8	0.46	2.0	1.8	7.6	<0.55	<2.0
RW-14	03/14/18	6		1,235	950	3,900	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-18	08/09/17	5		374	170	700	1.3	4.2	<0.13	<0.50	0.32	1.4	0.28	1.2	1.2	5.3	<0.55	<2.0
	09/07/17			679	320	1,300	2.2	7.1	0.7	3	0.62	2.7	0.53	2.3	2.2	9.6	<0.55	<2.0
	03/14/18			937	490	2,000	1.4	4.4	<0.13	<0.50	<0.12	<0.50	0.25	1.1	0.76	3.3	<0.55	<2.0
RW-19	06/27/18	4		43	4.9	20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-20	08/16/17	5		129	73	300	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	09/07/17			58	61	250	<0.16	<0.50	<0.13	<0.50	0.16	0.69	<0.12	<0.50	0.32	1.4	<0.55	<2.0
	06/27/18	4		42	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-21	08/09/17	5		160	95	390	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/18	4		55	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-22	08/16/17	5		1,775	1,600	6,700	0.38	1.2	<0.13	<0.50	3.2	14	0.20	0.88	4.6	20	<0.55	<2.0
	09/07/17			1,379	1,200	5,000	0.44	1.4	<0.13	<0.50	2.2	9.5	0.48	2.1	3.2	14	<0.55	<2.0
	06/27/18	4		2,595	1,200	4,800	<0.78	<2.5	<0.66	<2.5	<0.58	<2.5	<0.58	<2.5	<1.2	<5.0	<2.8	<10
RW-23	08/09/17	5		787	660	2,700	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	09/07/17			141	83	340	<0.16	<0.50	<0.13	<0.50	0.25	1.1	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-24	08/16/17	5		1,525	1,400	5,900	<0.16	<0.50	<0.13	<0.50	0.19	0.82	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	09/07/17		1,423	930	3,800	<0.16	<0.50	<0.13	<0.50	0.37	1.6	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	06/27/18	4	459	98	400	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
RW-25	06/27/18	4	89	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
RW-26	08/09/17	5	4,340	7,100	29,000	0.23	0.75	<0.13	<0.50	0.94	4.1	<0.12	<0.50	0.35	1.5	<0.55	<2.0	
	09/07/17		3,290	3,200	13,000	<0.16	<0.50	<0.13	<0.50	0.88	3.8	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	06/27/18	4	1,821	710	2,900	<0.78	<2.5	<0.66	<2.5	<0.58	<2.5	<0.58	<2.5	<1.2	<5.0	<2.8	<10	
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		8,080	7,300	30,000	1.7	5.5	<0.13	<0.50	8.1	35	0.25	1.1	3.0	13	<0.55	<2.0	
	06/27/18	4	5,000	4,200	17,000	<0.78	<2.5	<0.66	<2.5	2.3	10	<0.58	<2.5	1.9	8.2	<2.8	<10	
RW-29	08/09/17	5	620	640	2,600	0.16	0.52	<0.13	<0.50	0.17	0.75	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	09/07/17		1,123	930	3,800	0.17	0.54	<0.13	<0.50	0.13	0.56	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	06/27/18	4	2,563	780	3,200	<0.78	<2.5	<0.66	<2.5	<0.58	<2.5	<0.58	<2.5	<1.2	<5.0	<2.8	<10	
RW-30	08/09/17	5	6,550	12,000	50,000	0.85	2.7	<0.13	<0.50	17	72	<0.12	<0.50	0.81	3.5	<0.55	<2.0	
	09/07/17		8,240	3,200	13,000	<0.16	<0.50	<0.13	<0.50	6.9	30	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	



**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-30	06/27/18	4	8015 & 8260B	<b>32</b>	<b>13</b>	<b>54</b>	<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		<b>7,165</b>	<b>6,800</b>	<b>28,000</b>	<b>1.2</b>	<b>3.9</b>	<b>0.20</b>	<b>0.76</b>	<b>3.2</b>	<b>14</b>	<b>1.6</b>	<b>7.1</b>	<b>3.7</b>	<b>16</b>	<0.55	<2.0
	09/07/17			<b>3,400</b>	<b>2,900</b>	<b>12,000</b>	<b>0.4</b>	<b>1.4</b>	<0.13	<0.50	<b>3.0</b>	<b>13</b>	<b>1.1</b>	<b>4.9</b>	<b>2.3</b>	<b>10</b>	<0.55	<2.0
RW-32	06/27/18	4		<b>80</b>	<b>12</b>	<b>51</b>	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	08/16/17	5		<b>820</b>	<b>880</b>	<b>3,600</b>	<0.16	<0.50	<0.13	<0.50	<b>0.78</b>	<b>3.4</b>	<0.12	<0.50	<b>0.28</b>	<b>1.2</b>	<0.55	<2.0
RW-33	09/07/17			<b>715</b>	<b>810</b>	<b>3,300</b>	<b>0.17</b>	<b>0.54</b>	<0.13	<0.50	<b>0.55</b>	<b>2.4</b>	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/18	4		<b>421</b>	<b>66</b>	<b>270</b>	<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	08/16/17	5		<b>1,230</b>	<b>860</b>	<b>3,500</b>	<0.16	<0.50	<0.13	<0.50	<b>0.44</b>	<b>1.9</b>	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	09/07/17			<b>836</b>	<b>640</b>	<b>2,600</b>	<0.16	<0.50	<0.13	<0.50	<b>0.35</b>	<b>1.5</b>	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-35	06/27/18	4		<b>843</b>	<b>210</b>	<b>840</b>	<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		<b>46</b>	<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-36	06/27/18	4		<b>416</b>	<b>83</b>	<b>340</b>	<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-37	06/27/18	4		<b>452</b>	<b>440</b>	<b>1,800</b>	<0.78	<2.5	<0.66	<2.5	<0.58	<2.5	<0.58	<2.5	<1.2	<5.0	<2.8	<10
RW-38	06/27/18	4		<b>1,509</b>	<b>210</b>	<b>850</b>	<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-39	06/27/18	4		<b>134</b>	<b>24</b>	<b>100</b>	<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		<b>24</b>	<b>37</b>	<b>150</b>	<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-41	06/27/18	4		<b>1,782</b>	<b>2,900</b>	<b>12,000</b>	<0.78	<2.5	<0.66	<2.5	<b>0.78</b>	<b>3.4</b>	<0.58	<2.5	<1.2	<5.0	<2.8	<10
RW-42	06/27/18	4		<b>849</b>	<b>1,300</b>	<b>5,300</b>	<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		<b>3,040</b>	<b>1,500</b>	<b>6,200</b>	<0.78	<2.5	<0.66	<2.5	<0.58	<2.5	<0.58	<2.5	<1.2	<5.0	<2.8	<10
RW-44	06/27/18	4		<b>886</b>	<b>230</b>	<b>950</b>	<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-45	06/27/18	4		<b>728</b>	<b>88</b>	<b>360</b>	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<b>2.2</b>	<b>9.4</b>	<b>0.60</b>	<b>2.6</b>	<0.55	<2.0
RW-46	06/27/18	4		<b>56</b>	<b>14</b>	<b>57</b>	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<b>0.12</b>	<b>0.50</b>	<0.23	<1.0	<0.55	<2.0
RW-47	06/27/18	4		<b>191</b>	<b>44</b>	<b>180</b>	<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		<b>751</b>	<b>240</b>	<b>1,000</b>	<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		<b>1,454</b>	<b>540</b>	<b>2,200</b>	<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	<b>823</b>	<b>180</b>	<b>720</b>	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
RTF-18-NW	10/05/17	7	<b>5,000</b>	<b>1,600</b>	<b>6,500</b>	<0.78	<2.5	<0.66	<2.5	<b>1.2</b>	<b>5.0</b>	<0.58	<2.5	<1.2	<5.0	<2.8	<10	
	10/09/17	7	<b>9,000</b>	<b>16,000</b>	<b>67,000</b>	<b>100</b>	<b>330</b>	<b>0.18</b>	<b>0.66</b>	<b>12</b>	<b>52</b>	<b>13</b>	<b>56</b>	<b>60</b>	<b>260</b>	<0.55	<2.0	
			<b>3,635</b>	<b>18,000</b>	<b>72,000</b>	<b>170</b>	<b>550</b>	<1.3	<5.0	<b>17</b>	<b>75</b>	<b>19</b>	<b>83</b>	<b>92</b>	<b>400</b>	<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 - January**  
 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)
01/01/22	*		18,267.6	--	--	--	--	--	--	--
01/02/22	*		18,290.6	--	--	--	--	--	--	--
01/03/22	*		18,313.6	--	--	--	--	--	--	--
01/04/22	*		18,336.5	--	--	--	--	--	--	--
01/05/22	*		18,359.5	--	--	--	--	--	--	--
01/06/22	Technician		18,382.5	8	195	95	6	9.5	5	90
01/07/22	*		18,406.6	--	--	--	--	--	--	--
01/08/22	*		18,430.6	--	--	--	--	--	--	--
01/09/22	*		18,454.7	--	--	--	--	--	--	--
01/10/22	*		18,478.7	--	--	--	--	--	--	--
01/11/22	Technician		18,502.8	7	235	112	6	9.5	5	105
01/12/22	*		18,527.0	--	--	--	--	--	--	--
01/13/22	*		18,551.2	--	--	--	--	--	--	--
01/14/22	*		18,575.4	--	--	--	--	--	--	--
01/15/22	*		18,599.6	--	--	--	--	--	--	--
01/16/22	*		18,623.9	--	--	--	--	--	--	--
01/17/22	*		18,648.1	--	--	--	--	--	--	--
01/18/22	*		18,672.3	--	--	--	--	--	--	--
01/19/22	*		18,696.5	--	--	--	--	--	--	--
01/20/22	*		18,720.7	--	--	--	--	--	--	--
01/21/22	Technician		18,744.9	10	220	108	9	9.0	8	97
01/22/22	*		18,768.6	--	--	--	--	--	--	--
01/23/22	*		18,792.3	--	--	--	--	--	--	--
01/24/22	*		18,816.0	--	--	--	--	--	--	--
01/25/22	*		18,839.6	--	--	--	--	--	--	--
01/26/22	*		18,863.3	--	--	--	--	--	--	--
01/27/22	Technician		18,887.0	8	205	108	6	9.5	6	96
01/28/22	*		18,910.9	--	--	--	--	--	--	--
01/29/22	*		18,934.9	--	--	--	--	--	--	--
01/30/22	*		18,958.8	--	--	--	--	--	--	--
01/31/22	*		18,982.7	--	--	--	--	--	--	--

**Legend / Notes:**

System operating under SCAQMD Various Locations Permit #G52288

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

**Central Area** - (TFB-15, -16, 17, -18, -19, -25), (TFB-20, -23, -24, -30, -33), (TFB-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, -19, -20, -25, -28), (RW-22, -24, -27, -29, -33, -43), (RW-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 - February**  
 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)
02/01/22	*		19,006.6	--	--	--	--	--	--	--
02/02/22	*		19,030.6	--	--	--	--	--	--	--
02/03/22	Technician		19,054.5	8	200	97	6	10.0	6.0	92
02/04/22	*		19,078.7	--	--	--	--	--	--	--
02/05/22	*		19,102.9	--	--	--	--	--	--	--
02/06/22	*		19,127.2	--	--	--	--	--	--	--
02/07/22	*		19,151.4	--	--	--	--	--	--	--
02/08/22	Technician		19,175.6	7	220	118	5	9.6	5.0	100
02/09/22	*		19,200.1	--	--	--	--	--	--	--
02/10/22	*		19,224.5	--	--	--	--	--	--	--
02/11/22	*		19,249.0	--	--	--	--	--	--	--
02/12/22	*		19,273.5	--	--	--	--	--	--	--
02/13/22	*		19,297.9	--	--	--	--	--	--	--
02/14/22	*		19,322.4	--	--	--	--	--	--	--
02/15/22	*		19,346.8	--	--	--	--	--	--	--
02/16/22	Technician		19,371.3	8	200	100	7	9.0	5.0	94
02/17/22	*		19,394.7	--	--	--	--	--	--	--
02/18/22	*		19,418.2	--	--	--	--	--	--	--
02/19/22	*		19,441.6	--	--	--	--	--	--	--
02/20/22	*		19,465.1	--	--	--	--	--	--	--
02/21/22	*		19,488.5	--	--	--	--	--	--	--
02/22/22	*		19,511.9	--	--	--	--	--	--	--
02/23/22	*		19,535.4	--	--	--	--	--	--	--
02/24/22	Technician		19,558.8	9	205	105	7	9.6	6.5	92
02/25/22	*		19,582.8	--	--	--	--	--	--	--
02/26/22	*		19,606.8	--	--	--	--	--	--	--
02/27/22	*		19,630.8	--	--	--	--	--	--	--
02/28/22	*		19,654.8	--	--	--	--	--	--	--

**Legend / Notes:**

System operating under SCAQMD Various Locations Permit #G52288

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

**Central Area** - (TFB-15, -16, 17, -18, -19, -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-17, -18, RW-30, -31, -32, -34), (BSP-15, -16, -19, -20, -25, -28), (RW-22, -24, -27, -29, -33, -43), (RW-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 - March**  
 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)
03/01/22	*		19,678.8	--	--	--	--	--	--	--
03/02/22	*		19,702.8	--	--	--	--	--	--	--
03/03/22	Technician		19,726.8	8	200	104	6	9.0	6	96
03/04/22	*		19,750.8	--	--	--	--	--	--	--
03/05/22	*		19,774.7	--	--	--	--	--	--	--
03/06/22	*		19,798.7	--	--	--	--	--	--	--
03/07/22	*		19,822.6	--	--	--	--	--	--	--
03/08/22	Technician		19,846.6	8	210	112	6	9.5	6	105
03/09/22	*		19,871.1	--	--	--	--	--	--	--
03/10/22	*		19,895.6	--	--	--	--	--	--	--
03/11/22	*		19,920.1	--	--	--	--	--	--	--
03/12/22	*		19,944.7	--	--	--	--	--	--	--
03/13/22	*		19,969.2	--	--	--	--	--	--	--
03/14/22	*		19,993.7	--	--	--	--	--	--	--
03/15/22	*		20,018.2	--	--	--	--	--	--	--
03/16/22	Technician		20,042.7	8	210	110	8	9.5	5	100
03/17/22	*		20,065.9	--	--	--	--	--	--	--
03/18/22	*		20,089.1	--	--	--	--	--	--	--
03/19/22	*		20,112.3	--	--	--	--	--	--	--
03/20/22	*		20,135.4	--	--	--	--	--	--	--
03/21/22	*		20,158.6	--	--	--	--	--	--	--
03/22/22	*		20,181.8	--	--	--	--	--	--	--
03/23/22	Technician		20,205.0	10	220	118	9	9.0	8	108
03/24/22	*		20,229.4	--	--	--	--	--	--	--
03/25/22	*		20,253.7	--	--	--	--	--	--	--
03/26/22	*		20,278.1	--	--	--	--	--	--	--
03/27/22	*		20,302.5	--	--	--	--	--	--	--
03/28/22	*		20,326.8	--	--	--	--	--	--	--
03/29/22	*		20,351.2	--	--	--	--	--	--	--
03/30/22	*		20,375.5	--	--	--	--	--	--	--
03/31/22	*		20,399.9	--	--	--	--	--	--	--

**Legend / Notes:**

System operating under SCAQMD Various Locations Permit #G52288

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

**Central Area** - (TFB-15, -16, 17, -18, -19, -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-17, -18, RW-30, -31, -32, -34), (BSP-15, -16, -19, -20, -25, -28), (RW-22, -24, -27, -29, -33, -43), (RW-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

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January 31, 2022

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013  
A5334420 / 2A18009**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 01/18/22 17:15 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:** A5334420  
**Date Received:** 01/18/22  
**Date Reported:** 01/31/22

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

VES After GAC-1	2A18009-01	Vapor	5	01/18/22 10:00	01/18/22 17:15
VES After GAC-2	2A18009-02	Vapor	5	01/18/22 09:59	01/18/22 17:15

**VOCs Gasoline Range Organics Vapor**

VES After GAC-1	2A18009-01	Vapor	5	01/18/22 10:00	01/18/22 17:15
VES After GAC-2	2A18009-02	Vapor	5	01/18/22 09:59	01/18/22 17:15

**VOCs in Vapor as Hexane**

VES After GAC-1	2A18009-01	Vapor	5	01/18/22 10:00	01/18/22 17:15
VES After GAC-2	2A18009-02	Vapor	5	01/18/22 09:59	01/18/22 17:15

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**Viorel Vasile**  
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5334420  
**Date Received:** 01/18/22  
**Date Reported:** 01/31/22  
**Sampled:** 01/18/22  
**Prepared:** 01/19/22  
**Analyzed:** 01/19/22

**VES After GAC-1**  
**2A18009-01 (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	102 %	70-140
Dibromofluoromethane	111 %	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:** 0.5**Method:** VOCs BTEX/MTBE Vapor by GC/MS 8260M**AA Project No:** A5334420**Date Received:** 01/18/22**Date Reported:** 01/31/22**Sampled:** 01/18/22**Prepared:** 01/19/22**Analyzed:** 01/19/22**VES After GAC-2****2A18009-02 (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

103 %

70-140

Dibromofluoromethane

103 %

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:** Gasoline Range Organics in Vapor by GC/FID

**AA Project No:** A5334420  
**Date Received:** 01/18/22  
**Date Reported:** 01/31/22  
**Sampled:** 01/18/22  
**Prepared:** 01/19/22  
**Analyzed:** 01/19/22

**VES After GAC-1**  
**2A18009-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	91	ug/L	20	22	ppmv	4.9
<b>Surrogates</b>		<b>%REC</b>				<b>%REC Limits</b>
a,a,a-Trifluorotoluene		108 %				70-130

**Viorel Vasile**  
 Operations Manager



### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334420  
**Date Received:** 01/18/22  
**Date Reported:** 01/31/22  
**Sampled:** 01/18/22  
**Prepared:** 01/19/22  
**Analyzed:** 01/19/22

**VES After GAC-2**  
**2A18009-02 (Vapor)**

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

**Viorel Vasile**  
 Operations Manager





### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334420  
**Date Received:** 01/18/22  
**Date Reported:** 01/31/22  
**Units:** ppmv

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<b>Date Sampled:</b>	01/18/22	01/18/22	
<b>Date Prepared:</b>	01/19/22	01/19/22	
<b>Date Analyzed:</b>	01/19/22	01/19/22	
<b>AA ID No:</b>	2A18009-01	2A18009-02	
<b>Client ID No:</b>	VES After GAC-1	VES After GAC-2	
<b>Matrix:</b>	Vapor	Vapor	
<b>Dilution Factor:</b>	1	1	MRL

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**VOCs in Vapor as Hexane (EPA 8015M)**

Total VOCs as Hexane	<b>16</b>	<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:** A5334420  
**Date Received:** 01/18/22  
**Date Reported:** 01/31/22

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>										
<i>Batch B2A1914 - *** DEFAULT PREP ***</i>										
<b>Blank (B2A1914-BLK1)</b>				Prepared & Analyzed: 01/19/22						
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>	52.6		ug/L	50.0		105	70-140			
<i>Surrogate: Dibromofluoromethane</i>	51.1		ug/L	50.0		102	70-140			
<i>Surrogate: Toluene-d8</i>	47.4		ug/L	50.0		94.8	70-140			
<b>LCS (B2A1914-BS1)</b>				Prepared & Analyzed: 01/19/22						
Benzene	17.6	0.50	ug/L	20.0		88.0	75-125			
Ethylbenzene	23.9	0.50	ug/L	20.0		120	75-125			
Methyl-tert-Butyl Ether (MTBE)	35.2	2.0	ug/L	40.0		88.1	75-125			
Toluene	23.6	0.50	ug/L	20.0		118	75-125			
o-Xylene	23.4	0.50	ug/L	20.0		117	75-125			
m,p-Xylenes	49.7	1.0	ug/L	40.0		124	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	48.8		ug/L	50.0		97.6	70-140			
<i>Surrogate: Dibromofluoromethane</i>	39.4		ug/L	50.0		78.7	70-140			
<i>Surrogate: Toluene-d8</i>	51.6		ug/L	50.0		103	70-140			
<b>LCS Dup (B2A1914-BSD1)</b>				Prepared & Analyzed: 01/19/22						
Benzene	18.4	0.50	ug/L	20.0		91.8	75-125	4.23	30	
Ethylbenzene	23.3	0.50	ug/L	20.0		116	75-125	2.67	30	
Methyl-tert-Butyl Ether (MTBE)	40.9	2.0	ug/L	40.0		102	75-125	14.8	30	
Toluene	21.5	0.50	ug/L	20.0		108	75-125	9.17	30	
o-Xylene	19.6	0.50	ug/L	20.0		98.2	75-125	17.3	30	
m,p-Xylenes	48.0	1.0	ug/L	40.0		120	75-125	3.44	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	50.1		ug/L	50.0		100	70-140			
<i>Surrogate: Dibromofluoromethane</i>	56.0		ug/L	50.0		112	70-140			
<i>Surrogate: Toluene-d8</i>	48.1		ug/L	50.0		96.2	70-140			
<b>Duplicate (B2A1914-DUP1)</b>				Source: 2A18008-01 Prepared & Analyzed: 01/19/22						

**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:** A5334420  
**Date Received:** 01/18/22  
**Date Reported:** 01/31/22

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>										
<i>Batch B2A1914 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B2A1914-DUP1) Continued Source: 2A18008-01 Prepared &amp; Analyzed: 01/19/22</b>										
Benzene	3.25	0.25	ug/L		3.62			10.8	30	
Ethylbenzene	1.37	0.25	ug/L		1.55			12.3	30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L						30	
Toluene	1.46	0.25	ug/L		1.66			12.5	30	
o-Xylene	1.09	0.25	ug/L		1.14			4.92	30	
m,p-Xylenes	3.68	0.50	ug/L		3.96			7.19	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	47.8		ug/L	50.0		95.7	70-140			
<i>Surrogate: Dibromofluoromethane</i>	52.5		ug/L	50.0		105	70-140			
<i>Surrogate: Toluene-d8</i>	49.3		ug/L	50.0		98.5	70-140			
<b>Gasoline Range Organics in Vapor by GC/FID - Quality Control</b>										
<i>Batch B2A1913 - *** DEFAULT PREP ***</i>										
<b>Blank (B2A1913-BLK1) Prepared &amp; Analyzed: 01/19/22</b>										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	51.7		ug/L	50.0		103	70-130			
<b>LCS (B2A1913-BS1) Prepared &amp; Analyzed: 01/19/22</b>										
Gasoline Range Organics (GRO)	484	20	ug/L	500		96.9	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	61.3		ug/L	50.0		123	70-130			
<b>LCS Dup (B2A1913-BSD1) Prepared &amp; Analyzed: 01/19/22</b>										
Gasoline Range Organics (GRO)	493	20	ug/L	500		98.7	75-125	1.80	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	62.3		ug/L	50.0		125	70-130			
<b>Duplicate (B2A1913-DUP1) Source: 2A18011-04 Prepared &amp; Analyzed: 01/19/22</b>										
Gasoline Range Organics (GRO)	885	20	ug/L		836			5.66	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	58.3		ug/L	50.0		117	70-130			
<b>VOCs in Vapor as Hexane - Quality Control</b>										
<i>Batch B2A1913 - *** DEFAULT PREP ***</i>										
<b>Blank (B2A1913-BLK1) Prepared &amp; Analyzed: 01/19/22</b>										
Total VOCs as Hexane	<4.9	4.9	ppmv							
<b>Duplicate (B2A1913-DUP1) Source: 2A18011-04 Prepared &amp; Analyzed: 01/19/22</b>										

**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:** A5334420  
**Date Received:** 01/18/22  
**Date Reported:** 01/31/22

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs in Vapor as Hexane - Quality Control</b>										
<i>Batch B2A1913 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B2A1913-DUP1) Continued Source: 2A18011-04 Prepared &amp; Analyzed: 01/19/22</b>										
Total VOCs as Hexane	160	4.9	ppmv		151			5.50	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:** A5334420  
**Date Received:** 01/18/22  
**Date Reported:** 01/31/22

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### Special Notes

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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

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February 01, 2022

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013  
A5334421 / 2A18010**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 01/18/22 17:15 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:** A5334421  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22

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

VES Carbon-Influent	2A18010-01	Vapor	5	01/18/22 10:01	01/18/22 17:15
VES Carbon-Effluent	2A18010-02	Vapor	5	01/18/22 09:56	01/18/22 17:15

**VOCs Gasoline Range Organics Vapor**

VES Carbon-Influent	2A18010-01	Vapor	5	01/18/22 10:01	01/18/22 17:15
VES Carbon-Effluent	2A18010-02	Vapor	5	01/18/22 09:56	01/18/22 17:15

**VOCs in Vapor as Hexane**

VES Carbon-Influent	2A18010-01	Vapor	5	01/18/22 10:01	01/18/22 17:15
VES Carbon-Effluent	2A18010-02	Vapor	5	01/18/22 09:56	01/18/22 17:15

**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:** A5334421  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22  
**Sampled:** 01/18/22  
**Prepared:** 01/19/22  
**Analyzed:** 01/19/22

**VES Carbon-Influent**  
**2A18010-01 (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	106 %	70-140
Dibromofluoromethane	103 %	70-140
Toluene-d8	97.7 %	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:** 0.5  
**Method:** VOCs BTEX/MTBE Vapor by GC/MS 8260M

**AA Project No:** A5334421  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22  
**Sampled:** 01/18/22  
**Prepared:** 01/19/22  
**Analyzed:** 01/19/22

**VES Carbon-Effluent**  
**2A18010-02 (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	101 %	70-140
Dibromofluoromethane	100 %	70-140
Toluene-d8	99.4 %	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:** A5334421  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22  
**Sampled:** 01/18/22  
**Prepared:** 01/19/22  
**Analyzed:** 01/19/22

**VES Carbon-Influent**  
**2A18010-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	130	ug/L	20	32	ppmv	4.9
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
a,a,a-Trifluorotoluene		109 %			70-130	

**Viorel Vasile**  
 Operations Manager



### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334421  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22  
**Sampled:** 01/18/22  
**Prepared:** 01/19/22  
**Analyzed:** 01/19/22

**VES Carbon-Effluent**  
**2A18010-02 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
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  
**Method:** VOCs in Vapor as Hexane

**AA Project No:** A5334421  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22  
**Units:** ppmv

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<b>Date Sampled:</b>	01/18/22	01/18/22	
<b>Date Prepared:</b>	01/19/22	01/19/22	
<b>Date Analyzed:</b>	01/19/22	01/19/22	
<b>AA ID No:</b>	2A18010-01	2A18010-02	
<b>Client ID No:</b>	VES	VES	
	Carbon-Influent	Carbon-Effluent	
<b>Matrix:</b>	Vapor	Vapor	
<b>Dilution Factor:</b>	1	1	MRL

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**VOCs in Vapor as Hexane (EPA 8015M)**

Total VOCs as Hexane	<b>25</b>	<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:** A5334421  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>										
<i>Batch B2A1914 - *** DEFAULT PREP ***</i>										
<b>Blank (B2A1914-BLK1)</b>				Prepared & Analyzed: 01/19/22						
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>	52.6		ug/L	50.0		105	70-140			
<i>Surrogate: Dibromofluoromethane</i>	51.1		ug/L	50.0		102	70-140			
<i>Surrogate: Toluene-d8</i>	47.4		ug/L	50.0		94.8	70-140			
<b>LCS (B2A1914-BS1)</b>				Prepared & Analyzed: 01/19/22						
Benzene	17.6	0.50	ug/L	20.0		88.0	75-125			
Ethylbenzene	23.9	0.50	ug/L	20.0		120	75-125			
Methyl-tert-Butyl Ether (MTBE)	35.2	2.0	ug/L	40.0		88.1	75-125			
Toluene	23.6	0.50	ug/L	20.0		118	75-125			
o-Xylene	23.4	0.50	ug/L	20.0		117	75-125			
m,p-Xylenes	49.7	1.0	ug/L	40.0		124	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	48.8		ug/L	50.0		97.6	70-140			
<i>Surrogate: Dibromofluoromethane</i>	39.4		ug/L	50.0		78.7	70-140			
<i>Surrogate: Toluene-d8</i>	51.6		ug/L	50.0		103	70-140			
<b>LCS Dup (B2A1914-BSD1)</b>				Prepared & Analyzed: 01/19/22						
Benzene	18.4	0.50	ug/L	20.0		91.8	75-125	4.23	30	
Ethylbenzene	23.3	0.50	ug/L	20.0		116	75-125	2.67	30	
Methyl-tert-Butyl Ether (MTBE)	40.9	2.0	ug/L	40.0		102	75-125	14.8	30	
Toluene	21.5	0.50	ug/L	20.0		108	75-125	9.17	30	
o-Xylene	19.6	0.50	ug/L	20.0		98.2	75-125	17.3	30	
m,p-Xylenes	48.0	1.0	ug/L	40.0		120	75-125	3.44	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	50.1		ug/L	50.0		100	70-140			
<i>Surrogate: Dibromofluoromethane</i>	56.0		ug/L	50.0		112	70-140			
<i>Surrogate: Toluene-d8</i>	48.1		ug/L	50.0		96.2	70-140			
<b>Duplicate (B2A1914-DUP1)</b>				Source: 2A18008-01 Prepared & Analyzed: 01/19/22						

**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:** A5334421  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22

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 B2A1914 - \*\*\* DEFAULT PREP \*\*\*

**Duplicate (B2A1914-DUP1) Continued** Source: 2A18008-01 Prepared & Analyzed: 01/19/22

Benzene	3.25	0.25	ug/L		3.62			10.8	30	
Ethylbenzene	1.37	0.25	ug/L		1.55			12.3	30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L						30	
Toluene	1.46	0.25	ug/L		1.66			12.5	30	
o-Xylene	1.09	0.25	ug/L		1.14			4.92	30	
m,p-Xylenes	3.68	0.50	ug/L		3.96			7.19	30	
Surrogate: 4-Bromofluorobenzene	47.8		ug/L	50.0		95.7	70-140			
Surrogate: Dibromofluoromethane	52.5		ug/L	50.0		105	70-140			
Surrogate: Toluene-d8	49.3		ug/L	50.0		98.5	70-140			

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

Batch B2A1913 - \*\*\* DEFAULT PREP \*\*\*

**Blank (B2A1913-BLK1)** Prepared & Analyzed: 01/19/22

Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	51.7		ug/L	50.0		103	70-130			

**LCS (B2A1913-BS1)** Prepared & Analyzed: 01/19/22

Gasoline Range Organics (GRO)	484	20	ug/L	500		96.9	75-125			
Surrogate: a,a,a-Trifluorotoluene	61.3		ug/L	50.0		123	70-130			

**LCS Dup (B2A1913-BSD1)** Prepared & Analyzed: 01/19/22

Gasoline Range Organics (GRO)	493	20	ug/L	500		98.7	75-125	1.80	30	
Surrogate: a,a,a-Trifluorotoluene	62.3		ug/L	50.0		125	70-130			

**Duplicate (B2A1913-DUP1)** Source: 2A18011-04 Prepared & Analyzed: 01/19/22

Gasoline Range Organics (GRO)	885	20	ug/L		836			5.66	30	
Surrogate: a,a,a-Trifluorotoluene	58.3		ug/L	50.0		117	70-130			

**VOCs in Vapor as Hexane - Quality Control**

Batch B2A1913 - \*\*\* DEFAULT PREP \*\*\*

**Blank (B2A1913-BLK1)** Prepared & Analyzed: 01/19/22

Total VOCs as Hexane	<4.9	4.9	ppmv							
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**Duplicate (B2A1913-DUP1)** Source: 2A18011-04 Prepared & Analyzed: 01/19/22

**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:** A5334421  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs in Vapor as Hexane - Quality Control</b>										
<i>Batch B2A1913 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B2A1913-DUP1) Continued Source: 2A18011-04 Prepared &amp; Analyzed: 01/19/22</b>										
Total VOCs as Hexane	160	4.9	ppmv		151			5.50	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:** A5334421  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22

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### Special Notes

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

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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

<b>Client:</b> The Source Group, Inc.	<b>Project Name / No.:</b> DFSP - Norwalk / 091-NOR-001	<b>Sampler's Name:</b> Glenn Anderson
<b>Project Manager:</b> Neil Irish	<b>Site Address:</b> 15306 Norwalk Blvd	<b>Sampler's Signature:</b> <i>Glenn Anderson</i>
<b>Phone:</b> 562-597-1055	<b>City:</b> Norwalk	<b>P.O. No.:</b>
<b>Fax:</b> 569-597-1070	<b>State &amp; Zip:</b> CA 90650	<b>Quote No.:</b>

**TAT Turnaround Codes \*\***

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

**ANALYSIS REQUESTED (Test Name)**

Client I.D.	Date	Time	Sample Matrix	No. of Cont	Please enter the TAT Turnaround Codes ** below			Special Instructions
VES Carbon-Influent	1-17-22	1001	Air	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	*VOC's reported as
VES Carbon-Effluent	"	0956	Air	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GRO (detection limit = 4.9 ppmv) and
								*VOCs as Hexane (detection limit = 4.9 ppmv)
								*Benzene (detection limit = 0.10 ppmv)

**Relinquished by:** *Glenn Anderson*      **Date:** 1-18-22      **Time:** 2:30

**Relinquished by:** *[Signature]*      **Date:** 1-18-22      **Time:** 1715

**Received by:** \_\_\_\_\_      **Date:** \_\_\_\_\_      **Time:** \_\_\_\_\_

**Received by:** \_\_\_\_\_      **Date:** \_\_\_\_\_      **Time:** \_\_\_\_\_

**Received by:** \_\_\_\_\_      **Date:** \_\_\_\_\_      **Time:** \_\_\_\_\_

**PRIORITY**  
 THE CHAIN OF CUSTODY  
 MUST BE MAINTAINED  
 DATE: 1/19/22

AS3344212A18010

*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

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February 16, 2022

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013  
A5334452 / 2B09025**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 02/09/22 18:54 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:** A5334452  
**Date Received:** 02/09/22  
**Date Reported:** 02/16/22

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

VES Carbon-Influent	2B09025-01	Vapor	5	02/09/22 12:01	02/09/22 18:54
VES Carbon-Effluent	2B09025-02	Vapor	5	02/09/22 11:56	02/09/22 18:54

**VOCs Gasoline Range Organics Vapor**

VES Carbon-Influent	2B09025-01	Vapor	5	02/09/22 12:01	02/09/22 18:54
VES Carbon-Effluent	2B09025-02	Vapor	5	02/09/22 11:56	02/09/22 18:54

**VOCs in Vapor as Hexane**

VES Carbon-Influent	2B09025-01	Vapor	5	02/09/22 12:01	02/09/22 18:54
VES Carbon-Effluent	2B09025-02	Vapor	5	02/09/22 11:56	02/09/22 18:54

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**Viorel Vasile**  
Operations Manager



### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334452  
**Date Received:** 02/09/22  
**Date Reported:** 02/16/22  
**Sampled:** 02/09/22  
**Prepared:** 02/10/22  
**Analyzed:** 02/10/22

**VES Carbon-Influent**  
**2B09025-01 (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	102 %	70-140
Dibromofluoromethane	129 %	70-140
Toluene-d8	91.2 %	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:** A5334452  
**Date Received:** 02/09/22  
**Date Reported:** 02/16/22  
**Sampled:** 02/09/22  
**Prepared:** 02/10/22  
**Analyzed:** 02/10/22

**VES Carbon-Effluent**  
**2B09025-02 (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	102 %	70-140
Dibromofluoromethane	124 %	70-140
Toluene-d8	91.9 %	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:** A5334452  
**Date Received:** 02/09/22  
**Date Reported:** 02/16/22  
**Sampled:** 02/09/22  
**Prepared:** 02/10/22  
**Analyzed:** 02/10/22

**VES Carbon-Influent**  
**2B09025-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	110	ug/L	20	27	ppmv	4.9
<b>Surrogates</b>		<b>%REC</b>			<b>%REC Limits</b>	
a,a,a-Trifluorotoluene		117 %			70-130	

**Viorel Vasile**  
 Operations Manager



### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334452  
**Date Received:** 02/09/22  
**Date Reported:** 02/16/22  
**Sampled:** 02/09/22  
**Prepared:** 02/10/22  
**Analyzed:** 02/10/22

**VES Carbon-Effluent**  
**2B09025-02 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
a,a,a-Trifluorotoluene		112 %			70-130	

**Viorel Vasile**  
 Operations Manager



**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5334452  
**Date Received:** 02/09/22  
**Date Reported:** 02/16/22  
**Units:** ppmv

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<b>Date Sampled:</b>	02/09/22	02/09/22	
<b>Date Prepared:</b>	02/10/22	02/10/22	
<b>Date Analyzed:</b>	02/10/22	02/10/22	
<b>AA ID No:</b>	2B09025-01	2B09025-02	
<b>Client ID No:</b>	VES	VES	
	Carbon-Influent	Carbon-Effluent	
<b>Matrix:</b>	Vapor	Vapor	
<b>Dilution Factor:</b>	1	1	MRL

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**VOCs in Vapor as Hexane (EPA 8015M)**

Total VOCs as Hexane	<b>19</b>	<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:** A5334452  
**Date Received:** 02/09/22  
**Date Reported:** 02/16/22

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>										
<i>Batch B2B1017 - *** DEFAULT PREP ***</i>										
<b>Blank (B2B1017-BLK1)</b>				Prepared & Analyzed: 02/10/22						
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>	51.7		ug/L	50.0		103	70-140			
<i>Surrogate: Dibromofluoromethane</i>	63.7		ug/L	50.0		127	70-140			
<i>Surrogate: Toluene-d8</i>	45.2		ug/L	50.0		90.4	70-140			
<b>LCS (B2B1017-BS1)</b>				Prepared & Analyzed: 02/10/22						
Benzene	<b>21.5</b>	0.50	ug/L	20.0		108	75-125			
Ethylbenzene	<b>18.8</b>	0.50	ug/L	20.0		94.2	75-125			
Methyl-tert-Butyl Ether (MTBE)	<b>44.3</b>	2.0	ug/L	40.0		111	75-125			
Toluene	<b>18.7</b>	0.50	ug/L	20.0		93.4	75-125			
o-Xylene	<b>19.0</b>	0.50	ug/L	20.0		94.8	75-125			
m,p-Xylenes	<b>40.0</b>	1.0	ug/L	40.0		100	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	49.9		ug/L	50.0		99.8	70-140			
<i>Surrogate: Dibromofluoromethane</i>	55.2		ug/L	50.0		110	70-140			
<i>Surrogate: Toluene-d8</i>	46.3		ug/L	50.0		92.7	70-140			
<b>LCS Dup (B2B1017-BSD1)</b>				Prepared & Analyzed: 02/10/22						
Benzene	<b>21.7</b>	0.50	ug/L	20.0		108	75-125	0.602	30	
Ethylbenzene	<b>18.3</b>	0.50	ug/L	20.0		91.4	75-125	2.91	30	
Methyl-tert-Butyl Ether (MTBE)	<b>45.7</b>	2.0	ug/L	40.0		114	75-125	3.04	30	
Toluene	<b>18.8</b>	0.50	ug/L	20.0		93.8	75-125	0.374	30	
o-Xylene	<b>18.4</b>	0.50	ug/L	20.0		92.2	75-125	2.73	30	
m,p-Xylenes	<b>38.5</b>	1.0	ug/L	40.0		96.2	75-125	3.92	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	50.5		ug/L	50.0		101	70-140			
<i>Surrogate: Dibromofluoromethane</i>	55.8		ug/L	50.0		112	70-140			
<i>Surrogate: Toluene-d8</i>	46.3		ug/L	50.0		92.6	70-140			
<b>Duplicate (B2B1017-DUP1)</b>				<b>Source: 2B09015-02</b> Prepared & Analyzed: 02/10/22						

**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:** A5334452  
**Date Received:** 02/09/22  
**Date Reported:** 02/16/22

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>										
<i>Batch B2B1017 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B2B1017-DUP1) Continued Source: 2B09015-02 Prepared &amp; Analyzed: 02/10/22</b>										
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>	51.1		ug/L	50.0		102	70-140			
<i>Surrogate: Dibromofluoromethane</i>	66.2		ug/L	50.0		132	70-140			
<i>Surrogate: Toluene-d8</i>	44.6		ug/L	50.0		89.1	70-140			
<b>Gasoline Range Organics in Vapor by GC/FID - Quality Control</b>										
<i>Batch B2B1018 - *** DEFAULT PREP ***</i>										
<b>Blank (B2B1018-BLK1) Prepared &amp; Analyzed: 02/10/22</b>										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	52.1		ug/L	50.0		104	70-130			
<b>LCS (B2B1018-BS1) Prepared &amp; Analyzed: 02/10/22</b>										
Gasoline Range Organics (GRO)	476	20	ug/L	500		95.3	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	62.6		ug/L	50.0		125	70-130			
<b>LCS Dup (B2B1018-BSD1) Prepared &amp; Analyzed: 02/10/22</b>										
Gasoline Range Organics (GRO)	533	20	ug/L	500		107	75-125	11.3	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	60.5		ug/L	50.0		121	70-130			
<b>Duplicate (B2B1018-DUP1) Source: 2B09021-01 Prepared &amp; Analyzed: 02/10/22</b>										
Gasoline Range Organics (GRO)	768	20	ug/L		904			16.2	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	61.6		ug/L	50.0		123	70-130			
<b>VOCs in Vapor as Hexane - Quality Control</b>										
<i>Batch B2B1018 - *** DEFAULT PREP ***</i>										
<b>Blank (B2B1018-BLK1) Prepared &amp; Analyzed: 02/10/22</b>										
Total VOCs as Hexane	<4.9	4.9	ppmv							
<b>Duplicate (B2B1018-DUP1) Source: 2B09021-01 Prepared &amp; Analyzed: 02/10/22</b>										

**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:** A5334452  
**Date Received:** 02/09/22  
**Date Reported:** 02/16/22

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs in Vapor as Hexane - Quality Control</b>										
<i>Batch B2B1018 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B2B1018-DUP1) Continued Source: 2B09021-01 Prepared &amp; Analyzed: 02/10/22</b>										
Total VOCs as Hexane	137	4.9	ppmv		137			0.00	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:** A5334452  
**Date Received:** 02/09/22  
**Date Reported:** 02/16/22

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### Special Notes

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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

24194

Client: The Source Group, Inc. Project Name / No.: DFSP - Norwalk / 091-NOR-001 Sampler's Name: Glenn Andruske

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

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)

ANALYSIS REQUESTED (Test Name)

Client I.D.	Date	Time	Sample Matrix	No. of Cont	Total VOCs Gas 8015	Total VOCs Hexane 8015	BTEX/MTBE 8260B	Special Instructions
VES Carbon-Influent	2-9-22	1201	Air	1	✓	✓		*VOC's reported as
VES Carbon-Effluent	"	1154	Air	1	✓	✓		GRO (detection limit = 4.9 ppmv) and *VOCs as Hexane (detection limit = 4.9 ppmv) *Benzene (detection limit = 0.10 ppmv)

**Please enter the TAT Turnaround Codes \*\* below**

Relinquished by: *Glenn Andruske* Date: 2-9-22 Time: 2:00 Received by: *[Signature]*

Relinquished by: *[Signature]* Date: 2-7-22 Time: 1854 Received by: *[Signature]*

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: \_\_\_\_\_

AS33452/2509025

**Priority**  
 8/10/2022 0715

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

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February 16, 2022

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013  
A5334453 / 2B09026**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 02/09/22 18:54 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:** A5334453  
**Date Received:** 02/09/22  
**Date Reported:** 02/16/22

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

VES After GAC-1	2B09026-01	Vapor	5	02/09/22 11:59	02/09/22 18:54
VES After GAC-2	2B09026-02	Vapor	5	02/09/22 11:58	02/09/22 18:54

**VOCs Gasoline Range Organics Vapor**

VES After GAC-1	2B09026-01	Vapor	5	02/09/22 11:59	02/09/22 18:54
VES After GAC-2	2B09026-02	Vapor	5	02/09/22 11:58	02/09/22 18:54

**VOCs in Vapor as Hexane**

VES After GAC-1	2B09026-01	Vapor	5	02/09/22 11:59	02/09/22 18:54
VES After GAC-2	2B09026-02	Vapor	5	02/09/22 11:58	02/09/22 18:54

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**Viorel Vasile**  
Operations Manager





### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334453  
**Date Received:** 02/09/22  
**Date Reported:** 02/16/22  
**Sampled:** 02/09/22  
**Prepared:** 02/11/22  
**Analyzed:** 02/11/22

**VES After GAC-1**  
**2B09026-01 (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	102 %	70-140
Dibromofluoromethane	123 %	70-140
Toluene-d8	91.2 %	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:** A5334453  
**Date Received:** 02/09/22  
**Date Reported:** 02/16/22  
**Sampled:** 02/09/22  
**Prepared:** 02/10/22  
**Analyzed:** 02/10/22

**VES After GAC-2**  
**2B09026-02 (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	104 %	70-140
Dibromofluoromethane	132 %	70-140
Toluene-d8	92.0 %	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:** A5334453  
**Date Received:** 02/09/22  
**Date Reported:** 02/16/22  
**Sampled:** 02/09/22  
**Prepared:** 02/10/22  
**Analyzed:** 02/10/22

**VES After GAC-1**

**2B09026-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<b>Surrogates</b>		<b>%REC</b>			<b>%REC Limits</b>	
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:** 1  
**Method:** Gasoline Range Organics in Vapor by GC/FID

**AA Project No:** A5334453  
**Date Received:** 02/09/22  
**Date Reported:** 02/16/22  
**Sampled:** 02/09/22  
**Prepared:** 02/10/22  
**Analyzed:** 02/10/22

**VES After GAC-2**

**2B09026-02 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<b>Surrogates</b>		<b>%REC</b>			<b>%REC Limits</b>	
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  
**Method:** VOCs in Vapor as Hexane

**AA Project No:** A5334453  
**Date Received:** 02/09/22  
**Date Reported:** 02/16/22  
**Units:** ppmv

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<b>Date Sampled:</b>	02/09/22	02/09/22	
<b>Date Prepared:</b>	02/10/22	02/10/22	
<b>Date Analyzed:</b>	02/10/22	02/10/22	
<b>AA ID No:</b>	2B09026-01	2B09026-02	
<b>Client ID No:</b>	VES After GAC-1	VES After GAC-2	
<b>Matrix:</b>	Vapor	Vapor	
<b>Dilution Factor:</b>	1	1	MRL

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**VOCs in Vapor as Hexane (EPA 8015M)**

Total VOCs 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:** A5334453  
**Date Received:** 02/09/22  
**Date Reported:** 02/16/22

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 B2B1017 - \*\*\* DEFAULT PREP \*\*\*

**Blank (B2B1017-BLK1)**

Prepared & Analyzed: 02/10/22

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	51.7		ug/L	50.0		103	70-140			
Surrogate: Dibromofluoromethane	63.7		ug/L	50.0		127	70-140			
Surrogate: Toluene-d8	45.2		ug/L	50.0		90.4	70-140			

**LCS (B2B1017-BS1)**

Prepared & Analyzed: 02/10/22

Benzene	21.5	0.50	ug/L	20.0		108	75-125			
Ethylbenzene	18.8	0.50	ug/L	20.0		94.2	75-125			
Methyl-tert-Butyl Ether (MTBE)	44.3	2.0	ug/L	40.0		111	75-125			
Toluene	18.7	0.50	ug/L	20.0		93.4	75-125			
o-Xylene	19.0	0.50	ug/L	20.0		94.8	75-125			
m,p-Xylenes	40.0	1.0	ug/L	40.0		100	75-125			

Surrogate: 4-Bromofluorobenzene	49.9		ug/L	50.0		99.8	70-140			
Surrogate: Dibromofluoromethane	55.2		ug/L	50.0		110	70-140			
Surrogate: Toluene-d8	46.3		ug/L	50.0		92.7	70-140			

**LCS Dup (B2B1017-BSD1)**

Prepared & Analyzed: 02/10/22

Benzene	21.7	0.50	ug/L	20.0		108	75-125	0.602	30	
Ethylbenzene	18.3	0.50	ug/L	20.0		91.4	75-125	2.91	30	
Methyl-tert-Butyl Ether (MTBE)	45.7	2.0	ug/L	40.0		114	75-125	3.04	30	
Toluene	18.8	0.50	ug/L	20.0		93.8	75-125	0.374	30	
o-Xylene	18.4	0.50	ug/L	20.0		92.2	75-125	2.73	30	
m,p-Xylenes	38.5	1.0	ug/L	40.0		96.2	75-125	3.92	30	

Surrogate: 4-Bromofluorobenzene	50.5		ug/L	50.0		101	70-140			
Surrogate: Dibromofluoromethane	55.8		ug/L	50.0		112	70-140			
Surrogate: Toluene-d8	46.3		ug/L	50.0		92.6	70-140			

**Duplicate (B2B1017-DUP1)** Source: 2B09015-02 Prepared & Analyzed: 02/10/22

**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:** A5334453  
**Date Received:** 02/09/22  
**Date Reported:** 02/16/22

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 B2B1017 - \*\*\* DEFAULT PREP \*\*\*

**Duplicate (B2B1017-DUP1) Continued** Source: 2B09015-02 Prepared & Analyzed: 02/10/22

Benzene	<0.50	0.50	ug/L						30	
Ethylbenzene	<0.50	0.50	ug/L						30	
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L						30	
Toluene	<0.50	0.50	ug/L						30	
o-Xylene	<0.50	0.50	ug/L						30	
m,p-Xylenes	<1.0	1.0	ug/L						30	
Surrogate: 4-Bromofluorobenzene	51.1		ug/L	50.0		102	70-140			
Surrogate: Dibromofluoromethane	66.2		ug/L	50.0		132	70-140			
Surrogate: Toluene-d8	44.6		ug/L	50.0		89.1	70-140			

Batch B2B1104 - \*\*\* DEFAULT PREP \*\*\*

**Blank (B2B1104-BLK1)** Prepared & Analyzed: 02/11/22

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	61.3		ug/L	50.0		123	70-140			
Surrogate: Toluene-d8	46.0		ug/L	50.0		91.9	70-140			

**LCS (B2B1104-BS1)** Prepared & Analyzed: 02/11/22

Benzene	21.7	0.50	ug/L	20.0		109	75-125			
Ethylbenzene	18.9	0.50	ug/L	20.0		94.6	75-125			
Methyl-tert-Butyl Ether (MTBE)	40.9	2.0	ug/L	40.0		102	75-125			
Toluene	19.3	0.50	ug/L	20.0		96.6	75-125			
o-Xylene	18.6	0.50	ug/L	20.0		93.2	75-125			
m,p-Xylenes	39.1	1.0	ug/L	40.0		97.7	75-125			
Surrogate: 4-Bromofluorobenzene	51.5		ug/L	50.0		103	70-140			
Surrogate: Dibromofluoromethane	55.1		ug/L	50.0		110	70-140			
Surrogate: Toluene-d8	47.4		ug/L	50.0		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

**AA Project No:** A5334453  
**Date Received:** 02/09/22  
**Date Reported:** 02/16/22

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>										
<i>Batch B2B1104 - *** DEFAULT PREP ***</i>										
<b>LCS Dup (B2B1104-BSD1)</b> <span style="float: right;">Prepared &amp; Analyzed: 02/11/22</span>										
Benzene	21.9	0.50	ug/L	20.0		109	75-125	0.550	30	
Ethylbenzene	18.0	0.50	ug/L	20.0		90.0	75-125	5.04	30	
Methyl-tert-Butyl Ether (MTBE)	44.8	2.0	ug/L	40.0		112	75-125	9.14	30	
Toluene	18.4	0.50	ug/L	20.0		92.2	75-125	4.66	30	
o-Xylene	17.9	0.50	ug/L	20.0		89.4	75-125	4.22	30	
m,p-Xylenes	37.6	1.0	ug/L	40.0		93.9	75-125	3.91	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	51.5		ug/L	50.0		103	70-140			
<i>Surrogate: Dibromofluoromethane</i>	57.2		ug/L	50.0		114	70-140			
<i>Surrogate: Toluene-d8</i>	48.2		ug/L	50.0		96.4	70-140			
<b>Duplicate (B2B1104-DUP1)</b> <span style="float: right;">Source: 2B09026-01 Prepared &amp; Analyzed: 02/11/22</span>										
Benzene	<0.25	0.25	ug/L		<0.25				30	
Ethylbenzene	<0.25	0.25	ug/L		<0.25				30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L		<1.0				30	
Toluene	<0.25	0.25	ug/L		<0.25				30	
o-Xylene	<0.25	0.25	ug/L		<0.25				30	
m,p-Xylenes	<0.50	0.50	ug/L		<0.50				30	
<i>Surrogate: 4-Bromofluorobenzene</i>	52.4		ug/L	50.0		105	70-140			
<i>Surrogate: Dibromofluoromethane</i>	61.4		ug/L	50.0		123	70-140			
<i>Surrogate: Toluene-d8</i>	46.6		ug/L	50.0		93.2	70-140			
<b>Gasoline Range Organics in Vapor by GC/FID - Quality Control</b>										
<i>Batch B2B1018 - *** DEFAULT PREP ***</i>										
<b>Blank (B2B1018-BLK1)</b> <span style="float: right;">Prepared &amp; Analyzed: 02/10/22</span>										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	52.1		ug/L	50.0		104	70-130			
<b>LCS (B2B1018-BS1)</b> <span style="float: right;">Prepared &amp; Analyzed: 02/10/22</span>										
Gasoline Range Organics (GRO)	476	20	ug/L	500		95.3	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	62.6		ug/L	50.0		125	70-130			
<b>LCS Dup (B2B1018-BSD1)</b> <span style="float: right;">Prepared &amp; Analyzed: 02/10/22</span>										
Gasoline Range Organics (GRO)	533	20	ug/L	500		107	75-125	11.3	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:** A5334453  
**Date Received:** 02/09/22  
**Date Reported:** 02/16/22

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Gasoline Range Organics in Vapor by GC/FID - Quality Control</b>										
<i>Batch B2B1018 - *** DEFAULT PREP ***</i>										
<b>LCS Dup (B2B1018-BSD1) Continued</b> Prepared & Analyzed: 02/10/22										
<i>Surrogate: a,a,a-Trifluorotoluene</i>	60.5		ug/L	50.0		121	70-130			
<b>Duplicate (B2B1018-DUP1) Source: 2B09021-01</b> Prepared & Analyzed: 02/10/22										
Gasoline Range Organics (GRO)	768	20	ug/L		904			16.2	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	61.6		ug/L	50.0		123	70-130			
<b>VOCs in Vapor as Hexane - Quality Control</b>										
<i>Batch B2B1018 - *** DEFAULT PREP ***</i>										
<b>Blank (B2B1018-BLK1)</b> Prepared & Analyzed: 02/10/22										
Total VOCs as Hexane	<4.9	4.9	ppmv							
<b>Duplicate (B2B1018-DUP1) Source: 2B09021-01</b> Prepared & Analyzed: 02/10/22										
Total VOCs as Hexane	137	4.9	ppmv		137			0.00	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:** A5334453  
**Date Received:** 02/09/22  
**Date Reported:** 02/16/22

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### 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

**Client:** The Source Group, Inc.      **Project Name / No.:** DFSP - Norwalk / 091-NOR-001      **Sampler's Name:** Glenn Androsko  
**Project Manager:** Neil Irish      **Site Address:** 15306 Norwalk Blvd      **Sampler's Signature:** *Glenn Androsko*  
**Phone:** 562-597-1055      **City:** Norwalk      **P.O. No.:**  
**Fax:** 569-597-1070      **State & Zip:** CA 90650      **Quote No.:**

24200  
Page 1 of 1

**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 8268	
VES After GAC-1	2-9-22	1159	Air	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	*VOCs reported as
VES After GAC-2	"	1158	Air	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GRO (detection limit = 4.9 ppmv) and *VOCs as Hexane (detection limit = 4.9 ppmv) *Benzene (detection limit = 0.10 ppmv)
Please enter the TAT Turnaround Codes ** below							
*VOCs reported as							
GRO (detection limit = 4.9 ppmv) and							
*VOCs as Hexane (detection limit = 4.9 ppmv)							
*Benzene (detection limit = 0.10 ppmv)							

Relinquished by <i>Glenn Androsko</i>	Date	Time	Received by
	2-9-22	1:20	<i>[Signature]</i>
Relinquished by <i>[Signature]</i>	Date	Time	Received by
	2-9-22	18:54	<i>[Signature]</i>
Relinquished by <i>[Signature]</i>		Date	Received by

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

AS334453/2801026



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

---

March 18, 2022

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013  
A5334484 / 2C09013**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 03/09/22 16:28 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:** A5334484  
**Date Received:** 03/09/22  
**Date Reported:** 03/18/22

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

VES Carbon-Influent	2C09013-01	Vapor	5	03/09/22 10:18	03/09/22 16:28
VES Carbon-Effluent	2C09013-02	Vapor	5	03/09/22 10:13	03/09/22 16:28

**VOCs Gasoline Range Organics Vapor**

VES Carbon-Influent	2C09013-01	Vapor	5	03/09/22 10:18	03/09/22 16:28
VES Carbon-Effluent	2C09013-02	Vapor	5	03/09/22 10:13	03/09/22 16:28

**VOCs in Vapor as Hexane**

VES Carbon-Influent	2C09013-01	Vapor	5	03/09/22 10:18	03/09/22 16:28
VES Carbon-Effluent	2C09013-02	Vapor	5	03/09/22 10:13	03/09/22 16:28

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**Viorel Vasile**  
Operations Manager



### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334484  
**Date Received:** 03/09/22  
**Date Reported:** 03/18/22  
**Sampled:** 03/09/22  
**Prepared:** 03/10/22  
**Analyzed:** 03/10/22

**VES Carbon-Influent**  
**2C09013-01 (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	106 %	70-140
Dibromofluoromethane	172 % S-GC	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:** 0.5  
**Method:** VOCs BTEX/MTBE Vapor by GC/MS 8260M

**AA Project No:** A5334484  
**Date Received:** 03/09/22  
**Date Reported:** 03/18/22  
**Sampled:** 03/09/22  
**Prepared:** 03/10/22  
**Analyzed:** 03/10/22

**VES Carbon-Effluent**  
**2C09013-02 (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	109 %	70-140
Dibromofluoromethane	180 % S-GC	70-140
Toluene-d8	92.5 %	70-140

**Viorel Vasile**  
 Operations Manager



### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334484  
**Date Received:** 03/09/22  
**Date Reported:** 03/18/22  
**Sampled:** 03/09/22  
**Prepared:** 03/10/22  
**Analyzed:** 03/10/22

**VES Carbon-Influent**  
**2C09013-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	120	ug/L	20	29	ppmv	4.9
<b>Surrogates</b>		<b>%REC</b>			<b>%REC Limits</b>	
a,a,a-Trifluorotoluene		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:** A5334484  
**Date Received:** 03/09/22  
**Date Reported:** 03/18/22  
**Sampled:** 03/09/22  
**Prepared:** 03/10/22  
**Analyzed:** 03/10/22

**VES Carbon-Effluent**  
**2C09013-02 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
a,a,a-Trifluorotoluene		108 %			70-130	

**Viorel Vasile**  
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5334484  
**Date Received:** 03/09/22  
**Date Reported:** 03/18/22  
**Units:** ppmv

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<b>Date Sampled:</b>	03/09/22	03/09/22	
<b>Date Prepared:</b>	03/10/22	03/10/22	
<b>Date Analyzed:</b>	03/10/22	03/10/22	
<b>AA ID No:</b>	2C09013-01	2C09013-02	
<b>Client ID No:</b>	VES	VES	
	Carbon-Influent	Carbon-Effluent	
<b>Matrix:</b>	Vapor	Vapor	
<b>Dilution Factor:</b>	1	1	MRL

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**VOCs in Vapor as Hexane (EPA 8015M)**

Total VOCs as Hexane	<b>22</b>	<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:** A5334484  
**Date Received:** 03/09/22  
**Date Reported:** 03/18/22

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>										
<i>Batch B2C1005 - *** DEFAULT PREP ***</i>										
<b>Blank (B2C1005-BLK1)</b>				Prepared & Analyzed: 03/10/22						
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>52.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>105</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>64.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>130</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>45.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>91.8</i>	<i>70-140</i>			
<b>LCS (B2C1005-BS1)</b>				Prepared & Analyzed: 03/10/22						
Benzene	<b>23.0</b>	0.50	ug/L	20.0		115	75-125			
Ethylbenzene	<b>20.4</b>	0.50	ug/L	20.0		102	75-125			
Methyl-tert-Butyl Ether (MTBE)	<b>41.0</b>	2.0	ug/L	40.0		102	75-125			
Toluene	<b>19.9</b>	0.50	ug/L	20.0		99.6	75-125			
o-Xylene	<b>20.8</b>	0.50	ug/L	20.0		104	75-125			
m,p-Xylenes	<b>43.3</b>	1.0	ug/L	40.0		108	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>52.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>104</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>60.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>120</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>47.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>93.9</i>	<i>70-140</i>			
<b>LCS Dup (B2C1005-BSD1)</b>				Prepared & Analyzed: 03/10/22						
Benzene	<b>21.7</b>	0.50	ug/L	20.0		109	75-125	5.59	30	
Ethylbenzene	<b>20.5</b>	0.50	ug/L	20.0		102	75-125	0.441	30	
Methyl-tert-Butyl Ether (MTBE)	<b>42.4</b>	2.0	ug/L	40.0		106	75-125	3.38	30	
Toluene	<b>19.7</b>	0.50	ug/L	20.0		98.4	75-125	1.16	30	
o-Xylene	<b>20.9</b>	0.50	ug/L	20.0		105	75-125	0.672	30	
m,p-Xylenes	<b>43.1</b>	1.0	ug/L	40.0		108	75-125	0.509	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>52.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>104</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>59.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>118</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>47.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>94.7</i>	<i>70-140</i>			
<b>Duplicate (B2C1005-DUP1)</b>				Source: 2C09012-01 Prepared & Analyzed: 03/10/22						

**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:** A5334484  
**Date Received:** 03/09/22  
**Date Reported:** 03/18/22

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 B2C1005 - \*\*\* DEFAULT PREP \*\*\*

**Duplicate (B2C1005-DUP1) Continued** Source: 2C09012-01 Prepared & Analyzed: 03/10/22

Benzene	2.42	0.25	ug/L		2.63			8.52	30	
Ethylbenzene	1.22	0.25	ug/L		1.12			8.55	30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L						30	
Toluene	1.71	0.25	ug/L		1.55			9.82	30	
o-Xylene	1.44	0.25	ug/L		1.28			11.0	30	
m,p-Xylenes	3.98	0.50	ug/L		3.64			8.79	30	
Surrogate: 4-Bromofluorobenzene	49.9		ug/L	50.0		99.8	70-140			
Surrogate: Dibromofluoromethane	71.5		ug/L	50.0		143	70-140			S-GC
Surrogate: Toluene-d8	45.8		ug/L	50.0		91.6	70-140			

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

Batch B2C1004 - \*\*\* DEFAULT PREP \*\*\*

**Blank (B2C1004-BLK1)** Prepared & Analyzed: 03/10/22

Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	53.3		ug/L	50.0		107	70-130			

**LCS (B2C1004-BS1)** Prepared & Analyzed: 03/10/22

Gasoline Range Organics (GRO)	504	20	ug/L	500		101	75-125			
Surrogate: a,a,a-Trifluorotoluene	58.4		ug/L	50.0		117	70-130			

**LCS Dup (B2C1004-BSD1)** Prepared & Analyzed: 03/10/22

Gasoline Range Organics (GRO)	547	20	ug/L	500		109	75-125	8.23	30	
Surrogate: a,a,a-Trifluorotoluene	62.6		ug/L	50.0		125	70-130			

**Duplicate (B2C1004-DUP1)** Source: 2C09012-01 Prepared & Analyzed: 03/10/22

Gasoline Range Organics (GRO)	2090	20	ug/L		2190			4.57	30	
Surrogate: a,a,a-Trifluorotoluene	47.9		ug/L	50.0		95.8	70-130			

**VOCs in Vapor as Hexane - Quality Control**

Batch B2C1004 - \*\*\* DEFAULT PREP \*\*\*

**Blank (B2C1004-BLK1)** Prepared & Analyzed: 03/10/22

Total VOCs as Hexane	<4.9	4.9	ppmv							
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**Duplicate (B2C1004-DUP1)** Source: 2C09012-01 Prepared & Analyzed: 03/10/22

**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:** A5334484  
**Date Received:** 03/09/22  
**Date Reported:** 03/18/22

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs in Vapor as Hexane - Quality Control</b>										
<i>Batch B2C1004 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B2C1004-DUP1) Continued Source: 2C09012-01 Prepared &amp; Analyzed: 03/10/22</b>										
Total VOCs as Hexane	378	4.9	ppmv		396			4.56	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:** A5334484  
**Date Received:** 03/09/22  
**Date Reported:** 03/18/22

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### Special Notes

[1] = **S-GC** : Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

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

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**Viorel Vasile**  
Operations Manager





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

---

March 18, 2022

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013  
A5334485 / 2C09014**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 03/09/22 16:28 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:** A5334485  
**Date Received:** 03/09/22  
**Date Reported:** 03/18/22

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

VES After GAC-1	2C09014-01	Vapor	5	03/09/22 10:16	03/09/22 16:28
VES After GAC-2	2C09014-02	Vapor	5	03/09/22 10:15	03/09/22 16:28

**VOCs Gasoline Range Organics Vapor**

VES After GAC-1	2C09014-01	Vapor	5	03/09/22 10:16	03/09/22 16:28
VES After GAC-2	2C09014-02	Vapor	5	03/09/22 10:15	03/09/22 16:28

**VOCs in Vapor as Hexane**

VES After GAC-1	2C09014-01	Vapor	5	03/09/22 10:16	03/09/22 16:28
VES After GAC-2	2C09014-02	Vapor	5	03/09/22 10:15	03/09/22 16:28

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**Viorel Vasile**  
Operations Manager



### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334485  
**Date Received:** 03/09/22  
**Date Reported:** 03/18/22  
**Sampled:** 03/09/22  
**Prepared:** 03/10/22  
**Analyzed:** 03/10/22

**VES After GAC-1**  
**2C09014-01 (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	106 %	70-140
Dibromofluoromethane	146 % S-GC	70-140
Toluene-d8	93.8 %	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:** 0.5  
**Method:** VOCs BTEX/MTBE Vapor by GC/MS 8260M

**AA Project No:** A5334485  
**Date Received:** 03/09/22  
**Date Reported:** 03/18/22  
**Sampled:** 03/09/22  
**Prepared:** 03/10/22  
**Analyzed:** 03/10/22

**VES After GAC-2**  
**2C09014-02 (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	107 %	70-140
Dibromofluoromethane	149 % S-GC	70-140
Toluene-d8	92.6 %	70-140

**Viorel Vasile**  
 Operations Manager



### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334485  
**Date Received:** 03/09/22  
**Date Reported:** 03/18/22  
**Sampled:** 03/09/22  
**Prepared:** 03/10/22  
**Analyzed:** 03/10/22

**VES After GAC-1**  
**2C09014-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<b>Surrogates</b>		<b>%REC</b>				<b>%REC Limits</b>
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:** A5334485  
**Date Received:** 03/09/22  
**Date Reported:** 03/18/22  
**Sampled:** 03/09/22  
**Prepared:** 03/10/22  
**Analyzed:** 03/10/22

**VES After GAC-2**  
**2C09014-02 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<b>Surrogates</b>		<b>%REC</b>				<b>%REC Limits</b>
a,a,a-Trifluorotoluene		108 %				70-130

**Viorel Vasile**  
Operations Manager



## LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334485  
**Date Received:** 03/09/22  
**Date Reported:** 03/18/22  
**Units:** ppmv

<b>Date Sampled:</b>	03/09/22	03/09/22	
<b>Date Prepared:</b>	03/10/22	03/10/22	
<b>Date Analyzed:</b>	03/10/22	03/10/22	
<b>AA ID No:</b>	2C09014-01	2C09014-02	
<b>Client ID No:</b>	VES After GAC-1	VES After GAC-2	
<b>Matrix:</b>	Vapor	Vapor	
<b>Dilution Factor:</b>	1	1	MRL

### VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs 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:** A5334485  
**Date Received:** 03/09/22  
**Date Reported:** 03/18/22

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>										
<i>Batch B2C1005 - *** DEFAULT PREP ***</i>										
<b>Blank (B2C1005-BLK1)</b>				Prepared & Analyzed: 03/10/22						
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>	52.5		ug/L	50.0		105	70-140			
<i>Surrogate: Dibromofluoromethane</i>	64.9		ug/L	50.0		130	70-140			
<i>Surrogate: Toluene-d8</i>	45.9		ug/L	50.0		91.8	70-140			
<b>LCS (B2C1005-BS1)</b>				Prepared & Analyzed: 03/10/22						
Benzene	<b>23.0</b>	0.50	ug/L	20.0		115	75-125			
Ethylbenzene	<b>20.4</b>	0.50	ug/L	20.0		102	75-125			
Methyl-tert-Butyl Ether (MTBE)	<b>41.0</b>	2.0	ug/L	40.0		102	75-125			
Toluene	<b>19.9</b>	0.50	ug/L	20.0		99.6	75-125			
o-Xylene	<b>20.8</b>	0.50	ug/L	20.0		104	75-125			
m,p-Xylenes	<b>43.3</b>	1.0	ug/L	40.0		108	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	52.0		ug/L	50.0		104	70-140			
<i>Surrogate: Dibromofluoromethane</i>	60.2		ug/L	50.0		120	70-140			
<i>Surrogate: Toluene-d8</i>	47.0		ug/L	50.0		93.9	70-140			
<b>LCS Dup (B2C1005-BSD1)</b>				Prepared & Analyzed: 03/10/22						
Benzene	<b>21.7</b>	0.50	ug/L	20.0		109	75-125	5.59	30	
Ethylbenzene	<b>20.5</b>	0.50	ug/L	20.0		102	75-125	0.441	30	
Methyl-tert-Butyl Ether (MTBE)	<b>42.4</b>	2.0	ug/L	40.0		106	75-125	3.38	30	
Toluene	<b>19.7</b>	0.50	ug/L	20.0		98.4	75-125	1.16	30	
o-Xylene	<b>20.9</b>	0.50	ug/L	20.0		105	75-125	0.672	30	
m,p-Xylenes	<b>43.1</b>	1.0	ug/L	40.0		108	75-125	0.509	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	52.2		ug/L	50.0		104	70-140			
<i>Surrogate: Dibromofluoromethane</i>	59.0		ug/L	50.0		118	70-140			
<i>Surrogate: Toluene-d8</i>	47.4		ug/L	50.0		94.7	70-140			
<b>Duplicate (B2C1005-DUP1)</b>				<b>Source: 2C09012-01</b> Prepared & Analyzed: 03/10/22						

**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:** A5334485  
**Date Received:** 03/09/22  
**Date Reported:** 03/18/22

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>										
<i>Batch B2C1005 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B2C1005-DUP1) Continued Source: 2C09012-01 Prepared &amp; Analyzed: 03/10/22</b>										
Benzene	2.42	0.25	ug/L		2.63			8.52	30	
Ethylbenzene	1.22	0.25	ug/L		1.12			8.55	30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L						30	
Toluene	1.71	0.25	ug/L		1.55			9.82	30	
o-Xylene	1.44	0.25	ug/L		1.28			11.0	30	
m,p-Xylenes	3.98	0.50	ug/L		3.64			8.79	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	49.9		ug/L	50.0		99.8	70-140			
<i>Surrogate: Dibromofluoromethane</i>	71.5		ug/L	50.0		143	70-140			S-GC
<i>Surrogate: Toluene-d8</i>	45.8		ug/L	50.0		91.6	70-140			
<b>Gasoline Range Organics in Vapor by GC/FID - Quality Control</b>										
<i>Batch B2C1004 - *** DEFAULT PREP ***</i>										
<b>Blank (B2C1004-BLK1) Prepared &amp; Analyzed: 03/10/22</b>										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	53.3		ug/L	50.0		107	70-130			
<b>LCS (B2C1004-BS1) Prepared &amp; Analyzed: 03/10/22</b>										
Gasoline Range Organics (GRO)	504	20	ug/L	500		101	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	58.4		ug/L	50.0		117	70-130			
<b>LCS Dup (B2C1004-BSD1) Prepared &amp; Analyzed: 03/10/22</b>										
Gasoline Range Organics (GRO)	547	20	ug/L	500		109	75-125	8.23	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	62.6		ug/L	50.0		125	70-130			
<b>Duplicate (B2C1004-DUP1) Source: 2C09012-01 Prepared &amp; Analyzed: 03/10/22</b>										
Gasoline Range Organics (GRO)	2090	20	ug/L		2190			4.57	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	47.9		ug/L	50.0		95.8	70-130			
<b>VOCs in Vapor as Hexane - Quality Control</b>										
<i>Batch B2C1004 - *** DEFAULT PREP ***</i>										
<b>Blank (B2C1004-BLK1) Prepared &amp; Analyzed: 03/10/22</b>										
Total VOCs as Hexane	<4.9	4.9	ppmv							
<b>Duplicate (B2C1004-DUP1) Source: 2C09012-01 Prepared &amp; Analyzed: 03/10/22</b>										

**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:** A5334485  
**Date Received:** 03/09/22  
**Date Reported:** 03/18/22

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs in Vapor as Hexane - Quality Control</b>										
<i>Batch B2C1004 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B2C1004-DUP1) Continued Source: 2C09012-01 Prepared &amp; Analyzed: 03/10/22</b>										
Total VOCs as Hexane	378	4.9	ppmv		396			4.56	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:** A5334485  
**Date Received:** 03/09/22  
**Date Reported:** 03/18/22

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### Special Notes

[1] = **S-GC** : Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

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

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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

24364

Page 1 of 1

**Client:** The Source Group, Inc. **Project Name / No.:** DFSP - Norwalk / 091-NOR-001 **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)

### ANALYSIS REQUESTED (Test Name)

Client I.D.	Date	Time	Sample Matrix	No. of Cont.	Please enter the TAT Turnaround Codes ** below			Special Instructions
					Total VOCs Gas 9013	Total VOCs Hexane 8135	BTEX/MTBE 82608	
VES After GAC-1	3-9-22	1016	Air	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	*VOCs reported as
VES After GAC-2	3-9-22	1015	Air	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GRO (detection limit = 4.9 ppmv) and *VOCs as Hexane (detection limit = 4.9 ppmv) *Benzene (detection limit = 0.10 ppmv)
								22 MAR 9 16:28

PRIORITY SH 3/10/22 0700 SAMP

Relinquished by	Date	Time	Received by
<i>Glenn Androska</i>	3-9-22	105	<i>[Signature]</i>
<i>[Signature]</i>	3-9-22	1618	<i>[Signature]</i>
Relinquished by	Date	Time	Received by

A5334485/2009014

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

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January 31, 2022

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013  
A5334419 / 2A18008**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 01/18/22 17:15 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:** A5334419  
**Date Received:** 01/18/22  
**Date Reported:** 01/31/22

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

VES Thermox-Influent	2A18008-01	Vapor	5	01/18/22 10:14	01/18/22 17:15
VES Thermox-Effluent	2A18008-02	Vapor	5	01/18/22 10:12	01/18/22 17:15

**VOCs Gasoline Range Organics Vapor**

VES Thermox-Influent	2A18008-01	Vapor	5	01/18/22 10:14	01/18/22 17:15
VES Thermox-Effluent	2A18008-02	Vapor	5	01/18/22 10:12	01/18/22 17:15

**VOCs in Vapor as Hexane**

VES Thermox-Influent	2A18008-01	Vapor	5	01/18/22 10:14	01/18/22 17:15
VES Thermox-Effluent	2A18008-02	Vapor	5	01/18/22 10:12	01/18/22 17:15

**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:** A5334419  
**Date Received:** 01/18/22  
**Date Reported:** 01/31/22  
**Sampled:** 01/18/22  
**Prepared:** 01/19/22  
**Analyzed:** 01/19/22

**VES Thermax-Influent**  
**2A18008-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	3.6	ug/L	0.50	1.1	ppmv	0.16
Ethylbenzene	1.6	ug/L	0.50	0.37	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<1.0	ug/L	2.0	<0.28	ppmv	0.55
Toluene	1.7	ug/L	0.50	0.45	ppmv	0.13
o-Xylene	1.1	ug/L	0.50	0.25	ppmv	0.12
m,p-Xylenes	4.0	ug/L	1.0	0.92	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	94.1 %	70-140
Dibromofluoromethane	109 %	70-140
Toluene-d8	96.3 %	70-140

**Viorel Vasile**  
 Operations Manager



### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334419  
**Date Received:** 01/18/22  
**Date Reported:** 01/31/22  
**Sampled:** 01/18/22  
**Prepared:** 01/19/22  
**Analyzed:** 01/19/22

**VES Thermax-Effluent**  
**2A18008-02 (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	99.3 %	70-140
Dibromofluoromethane	81.1 %	70-140
Toluene-d8	106 %	70-140

**Viorel Vasile**  
 Operations Manager



### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334419  
**Date Received:** 01/18/22  
**Date Reported:** 01/31/22  
**Sampled:** 01/18/22  
**Prepared:** 01/19/22  
**Analyzed:** 01/19/22

**VES Thermax-Influent**  
**2A18008-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<b>2500</b>	ug/L	20	<b>610</b>	ppmv	4.9
<b>Surrogates</b>		<b>%REC</b>			<b>%REC Limits</b>	
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:** A5334419  
**Date Received:** 01/18/22  
**Date Reported:** 01/31/22  
**Sampled:** 01/18/22  
**Prepared:** 01/19/22  
**Analyzed:** 01/19/22

**VES Thermax-Effluent**  
**2A18008-02 (Vapor)**

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

**Viorel Vasile**  
 Operations Manager



### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334419  
**Date Received:** 01/18/22  
**Date Reported:** 01/31/22  
**Units:** ppmv

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<b>Date Sampled:</b>	01/18/22	01/18/22	
<b>Date Prepared:</b>	01/19/22	01/19/22	
<b>Date Analyzed:</b>	01/19/22	01/19/22	
<b>AA ID No:</b>	2A18008-01	2A18008-02	
<b>Client ID No:</b>	VES	VES	
	Thermox-Influent	Thermox-Effluent	
<b>Matrix:</b>	Vapor	Vapor	
<b>Dilution Factor:</b>	1	1	MRL

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**VOCs in Vapor as Hexane (EPA 8015M)**

Total VOCs as Hexane	<b>460</b>	<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:** A5334419  
**Date Received:** 01/18/22  
**Date Reported:** 01/31/22

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>										
<i>Batch B2A1914 - *** DEFAULT PREP ***</i>										
<b>Blank (B2A1914-BLK1)</b>				Prepared & Analyzed: 01/19/22						
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>	52.6		ug/L	50.0		105	70-140			
<i>Surrogate: Dibromofluoromethane</i>	51.1		ug/L	50.0		102	70-140			
<i>Surrogate: Toluene-d8</i>	47.4		ug/L	50.0		94.8	70-140			
<b>LCS (B2A1914-BS1)</b>				Prepared & Analyzed: 01/19/22						
Benzene	<b>17.6</b>	0.50	ug/L	20.0		88.0	75-125			
Ethylbenzene	<b>23.9</b>	0.50	ug/L	20.0		120	75-125			
Methyl-tert-Butyl Ether (MTBE)	<b>35.2</b>	2.0	ug/L	40.0		88.1	75-125			
Toluene	<b>23.6</b>	0.50	ug/L	20.0		118	75-125			
o-Xylene	<b>23.4</b>	0.50	ug/L	20.0		117	75-125			
m,p-Xylenes	<b>49.7</b>	1.0	ug/L	40.0		124	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	48.8		ug/L	50.0		97.6	70-140			
<i>Surrogate: Dibromofluoromethane</i>	39.4		ug/L	50.0		78.7	70-140			
<i>Surrogate: Toluene-d8</i>	51.6		ug/L	50.0		103	70-140			
<b>LCS Dup (B2A1914-BSD1)</b>				Prepared & Analyzed: 01/19/22						
Benzene	<b>18.4</b>	0.50	ug/L	20.0		91.8	75-125	4.23	30	
Ethylbenzene	<b>23.3</b>	0.50	ug/L	20.0		116	75-125	2.67	30	
Methyl-tert-Butyl Ether (MTBE)	<b>40.9</b>	2.0	ug/L	40.0		102	75-125	14.8	30	
Toluene	<b>21.5</b>	0.50	ug/L	20.0		108	75-125	9.17	30	
o-Xylene	<b>19.6</b>	0.50	ug/L	20.0		98.2	75-125	17.3	30	
m,p-Xylenes	<b>48.0</b>	1.0	ug/L	40.0		120	75-125	3.44	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	50.1		ug/L	50.0		100	70-140			
<i>Surrogate: Dibromofluoromethane</i>	56.0		ug/L	50.0		112	70-140			
<i>Surrogate: Toluene-d8</i>	48.1		ug/L	50.0		96.2	70-140			
<b>Duplicate (B2A1914-DUP1)</b>				<b>Source: 2A18008-01</b> Prepared & Analyzed: 01/19/22						

**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:** A5334419  
**Date Received:** 01/18/22  
**Date Reported:** 01/31/22

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>										
<i>Batch B2A1914 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B2A1914-DUP1) Continued Source: 2A18008-01 Prepared &amp; Analyzed: 01/19/22</b>										
Benzene	3.25	0.25	ug/L		3.62			10.8	30	
Ethylbenzene	1.37	0.25	ug/L		1.55			12.3	30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L		<1.0				30	
Toluene	1.46	0.25	ug/L		1.66			12.5	30	
o-Xylene	1.09	0.25	ug/L		1.14			4.92	30	
m,p-Xylenes	3.68	0.50	ug/L		3.96			7.19	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	47.8		ug/L	50.0		95.7	70-140			
<i>Surrogate: Dibromofluoromethane</i>	52.5		ug/L	50.0		105	70-140			
<i>Surrogate: Toluene-d8</i>	49.3		ug/L	50.0		98.5	70-140			
<b>Gasoline Range Organics in Vapor by GC/FID - Quality Control</b>										
<i>Batch B2A1913 - *** DEFAULT PREP ***</i>										
<b>Blank (B2A1913-BLK1) Prepared &amp; Analyzed: 01/19/22</b>										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	51.7		ug/L	50.0		103	70-130			
<b>LCS (B2A1913-BS1) Prepared &amp; Analyzed: 01/19/22</b>										
Gasoline Range Organics (GRO)	484	20	ug/L	500		96.9	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	61.3		ug/L	50.0		123	70-130			
<b>LCS Dup (B2A1913-BSD1) Prepared &amp; Analyzed: 01/19/22</b>										
Gasoline Range Organics (GRO)	493	20	ug/L	500		98.7	75-125	1.80	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	62.3		ug/L	50.0		125	70-130			
<b>Duplicate (B2A1913-DUP1) Source: 2A18011-04 Prepared &amp; Analyzed: 01/19/22</b>										
Gasoline Range Organics (GRO)	885	20	ug/L		836			5.66	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	58.3		ug/L	50.0		117	70-130			
<b>VOCs in Vapor as Hexane - Quality Control</b>										
<i>Batch B2A1913 - *** DEFAULT PREP ***</i>										
<b>Blank (B2A1913-BLK1) Prepared &amp; Analyzed: 01/19/22</b>										
Total VOCs as Hexane	<4.9	4.9	ppmv							
<b>Duplicate (B2A1913-DUP1) Source: 2A18011-04 Prepared &amp; Analyzed: 01/19/22</b>										

**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:** A5334419  
**Date Received:** 01/18/22  
**Date Reported:** 01/31/22

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs in Vapor as Hexane - Quality Control</b>										
<i>Batch B2A1913 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B2A1913-DUP1) Continued Source: 2A18011-04 Prepared &amp; Analyzed: 01/19/22</b>										
Total VOCs as Hexane	160	4.9	ppmv		151			5.50	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:** A5334419  
**Date Received:** 01/18/22  
**Date Reported:** 01/31/22

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### Special Notes

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

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**Viorel Vasile**  
Operations Manager





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

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February 16, 2022

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013  
A5334454 / 2B09027**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 02/09/22 18:54 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:** A5334454  
**Date Received:** 02/09/22  
**Date Reported:** 02/16/22

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

VES Thermox-Influent	2B09027-01	Vapor	5	02/09/22 12:23	02/09/22 18:54
VES Thermox-Effluent	2B09027-02	Vapor	5	02/09/22 12:19	02/09/22 18:54

**VOCs Gasoline Range Organics Vapor**

VES Thermox-Influent	2B09027-01	Vapor	5	02/09/22 12:23	02/09/22 18:54
VES Thermox-Effluent	2B09027-02	Vapor	5	02/09/22 12:19	02/09/22 18:54

**VOCs in Vapor as Hexane**

VES Thermox-Influent	2B09027-01	Vapor	5	02/09/22 12:23	02/09/22 18:54
VES Thermox-Effluent	2B09027-02	Vapor	5	02/09/22 12:19	02/09/22 18:54

**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:** A5334454  
**Date Received:** 02/09/22  
**Date Reported:** 02/16/22  
**Sampled:** 02/09/22  
**Prepared:** 02/10/22  
**Analyzed:** 02/10/22

**VES Thermax-Influent**  
**2B09027-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	2.4	ug/L	0.50	0.75	ppmv	0.16
Ethylbenzene	0.97	ug/L	0.50	0.22	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<1.0	ug/L	2.0	<0.28	ppmv	0.55
Toluene	1.2	ug/L	0.50	0.32	ppmv	0.13
o-Xylene	0.90	ug/L	0.50	0.21	ppmv	0.12
m,p-Xylenes	3.0	ug/L	1.0	0.69	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	95.7 %	70-140
Dibromofluoromethane	134 %	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:** 0.5  
**Method:** VOCs BTEX/MTBE Vapor by GC/MS 8260M

**AA Project No:** A5334454  
**Date Received:** 02/09/22  
**Date Reported:** 02/16/22  
**Sampled:** 02/09/22  
**Prepared:** 02/10/22  
**Analyzed:** 02/11/22

**VES Thermax-Effluent**  
**2B09027-02 (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	102 %	70-140
Dibromofluoromethane	129 %	70-140
Toluene-d8	91.9 %	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:** A5334454  
**Date Received:** 02/09/22  
**Date Reported:** 02/16/22  
**Sampled:** 02/09/22  
**Prepared:** 02/10/22  
**Analyzed:** 02/10/22

**VES Thermax-Influent**  
**2B09027-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<b>2200</b>	ug/L	20	<b>540</b>	ppmv	4.9
<b>Surrogates</b>		<b>%REC</b>			<b>%REC Limits</b>	
a,a,a-Trifluorotoluene		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:** A5334454  
**Date Received:** 02/09/22  
**Date Reported:** 02/16/22  
**Sampled:** 02/09/22  
**Prepared:** 02/10/22  
**Analyzed:** 02/10/22

**VES Thermax-Effluent**  
**2B09027-02 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<b>Surrogates</b>		<b>%REC</b>			<b>%REC Limits</b>	
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  
**Method:** VOCs in Vapor as Hexane

**AA Project No:** A5334454  
**Date Received:** 02/09/22  
**Date Reported:** 02/16/22  
**Units:** ppmv

<b>Date Sampled:</b>	02/09/22	02/09/22	
<b>Date Prepared:</b>	02/10/22	02/10/22	
<b>Date Analyzed:</b>	02/10/22	02/10/22	
<b>AA ID No:</b>	2B09027-01	2B09027-02	
<b>Client ID No:</b>	VES	VES	
	Thermox-Influent	Thermox-Effluent	
<b>Matrix:</b>	Vapor	Vapor	
<b>Dilution Factor:</b>	1	1	MRL

### VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	<b>390</b>	<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:** A5334454  
**Date Received:** 02/09/22  
**Date Reported:** 02/16/22

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>										
<i>Batch B2B1017 - *** DEFAULT PREP ***</i>										
<b>Blank (B2B1017-BLK1)</b> Prepared & Analyzed: 02/10/22										
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>	51.7		ug/L	50.0		103	70-140			
<i>Surrogate: Dibromofluoromethane</i>	63.7		ug/L	50.0		127	70-140			
<i>Surrogate: Toluene-d8</i>	45.2		ug/L	50.0		90.4	70-140			
<b>LCS (B2B1017-BS1)</b> Prepared & Analyzed: 02/10/22										
Benzene	21.5	0.50	ug/L	20.0		108	75-125			
Ethylbenzene	18.8	0.50	ug/L	20.0		94.2	75-125			
Methyl-tert-Butyl Ether (MTBE)	44.3	2.0	ug/L	40.0		111	75-125			
Toluene	18.7	0.50	ug/L	20.0		93.4	75-125			
o-Xylene	19.0	0.50	ug/L	20.0		94.8	75-125			
m,p-Xylenes	40.0	1.0	ug/L	40.0		100	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	49.9		ug/L	50.0		99.8	70-140			
<i>Surrogate: Dibromofluoromethane</i>	55.2		ug/L	50.0		110	70-140			
<i>Surrogate: Toluene-d8</i>	46.3		ug/L	50.0		92.7	70-140			
<b>LCS Dup (B2B1017-BSD1)</b> Prepared & Analyzed: 02/10/22										
Benzene	21.7	0.50	ug/L	20.0		108	75-125	0.602	30	
Ethylbenzene	18.3	0.50	ug/L	20.0		91.4	75-125	2.91	30	
Methyl-tert-Butyl Ether (MTBE)	45.7	2.0	ug/L	40.0		114	75-125	3.04	30	
Toluene	18.8	0.50	ug/L	20.0		93.8	75-125	0.374	30	
o-Xylene	18.4	0.50	ug/L	20.0		92.2	75-125	2.73	30	
m,p-Xylenes	38.5	1.0	ug/L	40.0		96.2	75-125	3.92	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	50.5		ug/L	50.0		101	70-140			
<i>Surrogate: Dibromofluoromethane</i>	55.8		ug/L	50.0		112	70-140			
<i>Surrogate: Toluene-d8</i>	46.3		ug/L	50.0		92.6	70-140			
<b>Duplicate (B2B1017-DUP1)</b> Source: 2B09015-02 Prepared & Analyzed: 02/10/22										

**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:** A5334454  
**Date Received:** 02/09/22  
**Date Reported:** 02/16/22

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 B2B1017 - \*\*\* DEFAULT PREP \*\*\**

**Duplicate (B2B1017-DUP1) Continued** Source: 2B09015-02 Prepared & Analyzed: 02/10/22

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>	51.1		ug/L	50.0		102	70-140			
<i>Surrogate: Dibromofluoromethane</i>	66.2		ug/L	50.0		132	70-140			
<i>Surrogate: Toluene-d8</i>	44.6		ug/L	50.0		89.1	70-140			

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

*Batch B2B1018 - \*\*\* DEFAULT PREP \*\*\**

**Blank (B2B1018-BLK1)** Prepared & Analyzed: 02/10/22

Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	52.1		ug/L	50.0		104	70-130			

**LCS (B2B1018-BS1)** Prepared & Analyzed: 02/10/22

Gasoline Range Organics (GRO)	476	20	ug/L	500		95.3	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	62.6		ug/L	50.0		125	70-130			

**LCS Dup (B2B1018-BSD1)** Prepared & Analyzed: 02/10/22

Gasoline Range Organics (GRO)	533	20	ug/L	500		107	75-125	11.3	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	60.5		ug/L	50.0		121	70-130			

**Duplicate (B2B1018-DUP1)** Source: 2B09021-01 Prepared & Analyzed: 02/10/22

Gasoline Range Organics (GRO)	768	20	ug/L		904			16.2	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	61.6		ug/L	50.0		123	70-130			

**VOCs in Vapor as Hexane - Quality Control**

*Batch B2B1018 - \*\*\* DEFAULT PREP \*\*\**

**Blank (B2B1018-BLK1)** Prepared & Analyzed: 02/10/22

Total VOCs as Hexane	<4.9	4.9	ppmv							
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**Duplicate (B2B1018-DUP1)** Source: 2B09021-01 Prepared & Analyzed: 02/10/22

**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:** A5334454  
**Date Received:** 02/09/22  
**Date Reported:** 02/16/22

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs in Vapor as Hexane - Quality Control</b>										
<i>Batch B2B1018 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B2B1018-DUP1) Continued Source: 2B09021-01 Prepared &amp; Analyzed: 02/10/22</b>										
Total VOCs as Hexane	137	4.9	ppmv		137			0.00	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:** A5334454  
**Date Received:** 02/09/22  
**Date Reported:** 02/16/22

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### 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

---

March 18, 2022

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013  
A5334483 / 2C09012**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 03/09/22 16:28 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:** A5334483  
**Date Received:** 03/09/22  
**Date Reported:** 03/18/22

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

VES Thermox-Influent	2C09012-01	Vapor	5	03/09/22 10:46	03/09/22 16:28
VES Thermox-Effluent	2C09012-02	Vapor	5	03/09/22 10:45	03/09/22 16:28

**VOCs Gasoline Range Organics Vapor**

VES Thermox-Influent	2C09012-01	Vapor	5	03/09/22 10:46	03/09/22 16:28
VES Thermox-Effluent	2C09012-02	Vapor	5	03/09/22 10:45	03/09/22 16:28

**VOCs in Vapor as Hexane**

VES Thermox-Influent	2C09012-01	Vapor	5	03/09/22 10:46	03/09/22 16:28
VES Thermox-Effluent	2C09012-02	Vapor	5	03/09/22 10:45	03/09/22 16:28

**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:** A5334483  
**Date Received:** 03/09/22  
**Date Reported:** 03/18/22  
**Sampled:** 03/09/22  
**Prepared:** 03/10/22  
**Analyzed:** 03/10/22

**VES Thermax-Influent**  
**2C09012-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	2.6	ug/L	0.50	0.81	ppmv	0.16
Ethylbenzene	1.1	ug/L	0.50	0.25	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<1.0	ug/L	2.0	<0.28	ppmv	0.55
Toluene	1.6	ug/L	0.50	0.42	ppmv	0.13
o-Xylene	1.3	ug/L	0.50	0.30	ppmv	0.12
m,p-Xylenes	3.6	ug/L	1.0	0.83	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	101 %	70-140
Dibromofluoromethane	154 % S-GC	70-140
Toluene-d8	90.0 %	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:** 0.5  
**Method:** VOCs BTEX/MTBE Vapor by GC/MS 8260M

**AA Project No:** A5334483  
**Date Received:** 03/09/22  
**Date Reported:** 03/18/22  
**Sampled:** 03/09/22  
**Prepared:** 03/10/22  
**Analyzed:** 03/10/22

**VES Thermax-Effluent**  
**2C09012-02 (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	108 %	70-140
Dibromofluoromethane	142 % S-GC	70-140
Toluene-d8	94.3 %	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:** A5334483  
**Date Received:** 03/09/22  
**Date Reported:** 03/18/22  
**Sampled:** 03/09/22  
**Prepared:** 03/10/22  
**Analyzed:** 03/10/22

**VES Thermax-Influent**  
**2C09012-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<b>2200</b>	ug/L	20	<b>540</b>	ppmv	4.9
<b>Surrogates</b>		<b>%REC</b>			<b>%REC Limits</b>	
a,a,a-Trifluorotoluene		96.6 %			70-130	

**Viorel Vasile**  
 Operations Manager





### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334483  
**Date Received:** 03/09/22  
**Date Reported:** 03/18/22  
**Sampled:** 03/09/22  
**Prepared:** 03/10/22  
**Analyzed:** 03/10/22

**VES Thermax-Effluent**  
**2C09012-02 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<b>Surrogates</b>		<b>%REC</b>			<b>%REC Limits</b>	
a,a,a-Trifluorotoluene		108 %			70-130	

**Viorel Vasile**  
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5334483  
**Date Received:** 03/09/22  
**Date Reported:** 03/18/22  
**Units:** ppmv

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<b>Date Sampled:</b>	03/09/22	03/09/22	
<b>Date Prepared:</b>	03/10/22	03/10/22	
<b>Date Analyzed:</b>	03/10/22	03/10/22	
<b>AA ID No:</b>	2C09012-01	2C09012-02	
<b>Client ID No:</b>	VES	VES	
	Thermox-Influent	Thermox-Effluent	
<b>Matrix:</b>	Vapor	Vapor	
<b>Dilution Factor:</b>	1	1	MRL

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**VOCs in Vapor as Hexane (EPA 8015M)**

Total VOCs as Hexane	<b>400</b>	<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:** A5334483  
**Date Received:** 03/09/22  
**Date Reported:** 03/18/22

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>										
<i>Batch B2C1005 - *** DEFAULT PREP ***</i>										
<b>Blank (B2C1005-BLK1)</b>				Prepared & Analyzed: 03/10/22						
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>52.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>105</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>64.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>130</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>45.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>91.8</i>	<i>70-140</i>			
<b>LCS (B2C1005-BS1)</b>				Prepared & Analyzed: 03/10/22						
Benzene	<b>23.0</b>	0.50	ug/L	20.0		115	75-125			
Ethylbenzene	<b>20.4</b>	0.50	ug/L	20.0		102	75-125			
Methyl-tert-Butyl Ether (MTBE)	<b>41.0</b>	2.0	ug/L	40.0		102	75-125			
Toluene	<b>19.9</b>	0.50	ug/L	20.0		99.6	75-125			
o-Xylene	<b>20.8</b>	0.50	ug/L	20.0		104	75-125			
m,p-Xylenes	<b>43.3</b>	1.0	ug/L	40.0		108	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>52.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>104</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>60.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>120</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>47.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>93.9</i>	<i>70-140</i>			
<b>LCS Dup (B2C1005-BSD1)</b>				Prepared & Analyzed: 03/10/22						
Benzene	<b>21.7</b>	0.50	ug/L	20.0		109	75-125	5.59	30	
Ethylbenzene	<b>20.5</b>	0.50	ug/L	20.0		102	75-125	0.441	30	
Methyl-tert-Butyl Ether (MTBE)	<b>42.4</b>	2.0	ug/L	40.0		106	75-125	3.38	30	
Toluene	<b>19.7</b>	0.50	ug/L	20.0		98.4	75-125	1.16	30	
o-Xylene	<b>20.9</b>	0.50	ug/L	20.0		105	75-125	0.672	30	
m,p-Xylenes	<b>43.1</b>	1.0	ug/L	40.0		108	75-125	0.509	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>52.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>104</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>59.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>118</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>47.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>94.7</i>	<i>70-140</i>			
<b>Duplicate (B2C1005-DUP1)</b>				<b>Source: 2C09012-01</b> Prepared & Analyzed: 03/10/22						

**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:** A5334483  
**Date Received:** 03/09/22  
**Date Reported:** 03/18/22

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>										
<i>Batch B2C1005 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B2C1005-DUP1) Continued Source: 2C09012-01 Prepared &amp; Analyzed: 03/10/22</b>										
Benzene	2.42	0.25	ug/L		2.63			8.52	30	
Ethylbenzene	1.22	0.25	ug/L		1.12			8.55	30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L		<1.0				30	
Toluene	1.71	0.25	ug/L		1.55			9.82	30	
o-Xylene	1.44	0.25	ug/L		1.28			11.0	30	
m,p-Xylenes	3.98	0.50	ug/L		3.64			8.79	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	49.9		ug/L	50.0		99.8	70-140			
<i>Surrogate: Dibromofluoromethane</i>	71.5		ug/L	50.0		143	70-140			S-GC
<i>Surrogate: Toluene-d8</i>	45.8		ug/L	50.0		91.6	70-140			
<b>Gasoline Range Organics in Vapor by GC/FID - Quality Control</b>										
<i>Batch B2C1004 - *** DEFAULT PREP ***</i>										
<b>Blank (B2C1004-BLK1) Prepared &amp; Analyzed: 03/10/22</b>										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	53.3		ug/L	50.0		107	70-130			
<b>LCS (B2C1004-BS1) Prepared &amp; Analyzed: 03/10/22</b>										
Gasoline Range Organics (GRO)	504	20	ug/L	500		101	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	58.4		ug/L	50.0		117	70-130			
<b>LCS Dup (B2C1004-BSD1) Prepared &amp; Analyzed: 03/10/22</b>										
Gasoline Range Organics (GRO)	547	20	ug/L	500		109	75-125	8.23	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	62.6		ug/L	50.0		125	70-130			
<b>Duplicate (B2C1004-DUP1) Source: 2C09012-01 Prepared &amp; Analyzed: 03/10/22</b>										
Gasoline Range Organics (GRO)	2090	20	ug/L		2190			4.57	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	47.9		ug/L	50.0		95.8	70-130			
<b>VOCs in Vapor as Hexane - Quality Control</b>										
<i>Batch B2C1004 - *** DEFAULT PREP ***</i>										
<b>Blank (B2C1004-BLK1) Prepared &amp; Analyzed: 03/10/22</b>										
Total VOCs as Hexane	<4.9	4.9	ppmv							
<b>Duplicate (B2C1004-DUP1) Source: 2C09012-01 Prepared &amp; Analyzed: 03/10/22</b>										

**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:** A5334483  
**Date Received:** 03/09/22  
**Date Reported:** 03/18/22

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs in Vapor as Hexane - Quality Control</b>										
<i>Batch B2C1004 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B2C1004-DUP1) Continued Source: 2C09012-01 Prepared &amp; Analyzed: 03/10/22</b>										
Total VOCs as Hexane	378	4.9	ppmv		396			4.56	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:** A5334483  
**Date Received:** 03/09/22  
**Date Reported:** 03/18/22

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### Special Notes

[1] = **S-GC** : Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

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

---

**Viorel Vasile**  
Operations Manager



# AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

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

24362

Page 1 of 1

Client: The Source Group, Inc.      Project Name / No.: DFSP - Norwalk / 091-NOR-001      Sampler's Name: Glenn Androsko

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

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)

**ANALYSIS REQUESTED (Test Name)**

Client I.D.	Date	Time	Sample Matrix	No. of Cont	Please enter the TAT Turnaround Codes ** below		Special Instructions
					Total VOCs Gas 8078	Total VOCs Hexane 8215	
VES Thermox-Influent	3-9-22	1046	Air	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	*VOC's reported as
VES Thermox-Effluent	3-9-22	1045	Air	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GRO (detection limit = 4.9 ppmv) and
							*VOCs as Hexane (detection limit = 4.9 ppmv)
							*Benzene (detection limit = 1 ppmv)
							*Ethyl benzene DL = 1 ppmv
							*MTBE (detection limit = 2 ppmv)

Relinquished by	Date	Time	Received by	Date	Time
Glenn Androsko	3-9-22	105	[Signature]		
Glenn Androsko	3-9-22	1628	[Signature]		

PRIORITY  
 2/21/2022  
 1055

A533483/2001012

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

---

February 01, 2022

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013  
A5334422 / 2A18011**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 01/18/22 17:15 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:** A5334422  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22

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

HW-1	2A18011-01	Vapor	5	01/18/22 11:10	01/18/22 17:15
HW-5	2A18011-02	Vapor	5	01/18/22 11:11	01/18/22 17:15
HW-7	2A18011-03	Vapor	5	01/18/22 11:14	01/18/22 17:15
HW-9	2A18011-04	Vapor	5	01/18/22 11:16	01/18/22 17:15

**VOCs Gasoline Range Organics Vapor**

HW-1	2A18011-01	Vapor	5	01/18/22 11:10	01/18/22 17:15
HW-5	2A18011-02	Vapor	5	01/18/22 11:11	01/18/22 17:15
HW-7	2A18011-03	Vapor	5	01/18/22 11:14	01/18/22 17:15
HW-9	2A18011-04	Vapor	5	01/18/22 11:16	01/18/22 17:15

**VOCs in Vapor as Hexane**

HW-1	2A18011-01	Vapor	5	01/18/22 11:10	01/18/22 17:15
HW-5	2A18011-02	Vapor	5	01/18/22 11:11	01/18/22 17:15
HW-7	2A18011-03	Vapor	5	01/18/22 11:14	01/18/22 17:15
HW-9	2A18011-04	Vapor	5	01/18/22 11:16	01/18/22 17:15

**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:** A5334422  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22  
**Sampled:** 01/18/22  
**Prepared:** 01/19/22  
**Analyzed:** 01/20/22

HW-1

2A18011-01 (Vapor)

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

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	102 %	70-140
Dibromofluoromethane	111 %	70-140
Toluene-d8	93.5 %	70-140

**Viorel Vasile**  
 Operations Manager



**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5334422  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22  
**Sampled:** 01/18/22  
**Prepared:** 01/19/22  
**Analyzed:** 01/20/22

**HW-5**

**2A18011-02 (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	99.3 %	70-140
Dibromofluoromethane	113 %	70-140
Toluene-d8	93.5 %	70-140

**Viorel Vasile**  
Operations Manager



### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334422  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22  
**Sampled:** 01/18/22  
**Prepared:** 01/19/22  
**Analyzed:** 01/20/22

**HW-7**

**2A18011-03 (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	<b>0.26</b>	ug/L	0.50	<b>0.069</b>	ppmv	0.13
o-Xylene	<b>0.39</b>	ug/L	0.50	<b>0.090</b>	ppmv	0.12
m,p-Xylenes	<b>0.52</b>	ug/L	1.0	<b>0.12</b>	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	104 %	70-140
Dibromofluoromethane	115 %	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:** A5334422  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22  
**Sampled:** 01/18/22  
**Prepared:** 01/19/22  
**Analyzed:** 01/20/22

**HW-9**

**2A18011-04 (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	99.7 %	70-140
Dibromofluoromethane	107 %	70-140
Toluene-d8	93.4 %	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:** A5334422  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22  
**Sampled:** 01/18/22  
**Prepared:** 01/19/22  
**Analyzed:** 01/19/22

HW-1

2A18011-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	26	ug/L	20	6.4	ppmv	4.9
<b>Surrogates</b>		<b>%REC</b>				<b>%REC Limits</b>
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  
**Matrix:** Vapor  
**Dilution:** 1  
**Method:** Gasoline Range Organics in Vapor by GC/FID

**AA Project No:** A5334422  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22  
**Sampled:** 01/18/22  
**Prepared:** 01/19/22  
**Analyzed:** 01/19/22

**HW-5**

**2A18011-02 (Vapor)**

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

**Viorel Vasile**  
Operations Manager



**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5334422  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22  
**Sampled:** 01/18/22  
**Prepared:** 01/19/22  
**Analyzed:** 01/19/22

**HW-7**

**2A18011-03 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<b>1900</b>	ug/L	20	<b>460</b>	ppmv	4.9
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
a,a,a-Trifluorotoluene		95.3 %			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:** A5334422  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22  
**Sampled:** 01/18/22  
**Prepared:** 01/19/22  
**Analyzed:** 01/19/22

**HW-9**

**2A18011-04 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<b>840</b>	ug/L	20	<b>210</b>	ppmv	4.9
<b><u>Surrogates</u></b>						
a,a,a-Trifluorotoluene		<u>%REC</u>				<u>%REC Limits</u>
		119 %				70-130

**Viorel Vasile**  
 Operations Manager



## LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334422  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22  
**Units:** ppmv

<b>Date Sampled:</b>	01/18/22	01/18/22	01/18/22	01/18/22
<b>Date Prepared:</b>	01/19/22	01/19/22	01/19/22	01/19/22
<b>Date Analyzed:</b>	01/19/22	01/19/22	01/19/22	01/19/22
<b>AA ID No:</b>	2A18011-01	2A18011-02	2A18011-03	2A18011-04
<b>Client ID No:</b>	HW-1	HW-5	HW-7	HW-9
<b>Matrix:</b>	Vapor	Vapor	Vapor	Vapor
<b>Dilution Factor:</b>	1	1	1	1
				MRL

### VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	<4.9	<4.9	<b>330</b>	<b>150</b>	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:** A5334422  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>										
<i>Batch B2A1914 - *** DEFAULT PREP ***</i>										
<b>Blank (B2A1914-BLK1)</b> Prepared & Analyzed: 01/19/22										
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>	52.6		ug/L	50.0		105	70-140			
<i>Surrogate: Dibromofluoromethane</i>	51.1		ug/L	50.0		102	70-140			
<i>Surrogate: Toluene-d8</i>	47.4		ug/L	50.0		94.8	70-140			
<b>LCS (B2A1914-BS1)</b> Prepared & Analyzed: 01/19/22										
Benzene	17.6	0.50	ug/L	20.0		88.0	75-125			
Ethylbenzene	23.9	0.50	ug/L	20.0		120	75-125			
Methyl-tert-Butyl Ether (MTBE)	35.2	2.0	ug/L	40.0		88.1	75-125			
Toluene	23.6	0.50	ug/L	20.0		118	75-125			
o-Xylene	23.4	0.50	ug/L	20.0		117	75-125			
m,p-Xylenes	49.7	1.0	ug/L	40.0		124	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	48.8		ug/L	50.0		97.6	70-140			
<i>Surrogate: Dibromofluoromethane</i>	39.4		ug/L	50.0		78.7	70-140			
<i>Surrogate: Toluene-d8</i>	51.6		ug/L	50.0		103	70-140			
<b>LCS Dup (B2A1914-BSD1)</b> Prepared & Analyzed: 01/19/22										
Benzene	18.4	0.50	ug/L	20.0		91.8	75-125	4.23	30	
Ethylbenzene	23.3	0.50	ug/L	20.0		116	75-125	2.67	30	
Methyl-tert-Butyl Ether (MTBE)	40.9	2.0	ug/L	40.0		102	75-125	14.8	30	
Toluene	21.5	0.50	ug/L	20.0		108	75-125	9.17	30	
o-Xylene	19.6	0.50	ug/L	20.0		98.2	75-125	17.3	30	
m,p-Xylenes	48.0	1.0	ug/L	40.0		120	75-125	3.44	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	50.1		ug/L	50.0		100	70-140			
<i>Surrogate: Dibromofluoromethane</i>	56.0		ug/L	50.0		112	70-140			
<i>Surrogate: Toluene-d8</i>	48.1		ug/L	50.0		96.2	70-140			
<b>Duplicate (B2A1914-DUP1)</b> Source: 2A18008-01 Prepared & Analyzed: 01/19/22										

**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:** A5334422  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>										
<i>Batch B2A1914 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B2A1914-DUP1) Continued Source: 2A18008-01 Prepared &amp; Analyzed: 01/19/22</b>										
Benzene	3.25	0.25	ug/L		3.62			10.8	30	
Ethylbenzene	1.37	0.25	ug/L		1.55			12.3	30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L						30	
Toluene	1.46	0.25	ug/L		1.66			12.5	30	
o-Xylene	1.09	0.25	ug/L		1.14			4.92	30	
m,p-Xylenes	3.68	0.50	ug/L		3.96			7.19	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	47.8		ug/L	50.0		95.7	70-140			
<i>Surrogate: Dibromofluoromethane</i>	52.5		ug/L	50.0		105	70-140			
<i>Surrogate: Toluene-d8</i>	49.3		ug/L	50.0		98.5	70-140			
<b>Gasoline Range Organics in Vapor by GC/FID - Quality Control</b>										
<i>Batch B2A1913 - *** DEFAULT PREP ***</i>										
<b>Blank (B2A1913-BLK1) Prepared &amp; Analyzed: 01/19/22</b>										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	51.7		ug/L	50.0		103	70-130			
<b>LCS (B2A1913-BS1) Prepared &amp; Analyzed: 01/19/22</b>										
Gasoline Range Organics (GRO)	484	20	ug/L	500		96.9	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	61.3		ug/L	50.0		123	70-130			
<b>LCS Dup (B2A1913-BSD1) Prepared &amp; Analyzed: 01/19/22</b>										
Gasoline Range Organics (GRO)	493	20	ug/L	500		98.7	75-125	1.80	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	62.3		ug/L	50.0		125	70-130			
<b>Duplicate (B2A1913-DUP1) Source: 2A18011-04 Prepared &amp; Analyzed: 01/19/22</b>										
Gasoline Range Organics (GRO)	885	20	ug/L		836			5.66	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	58.3		ug/L	50.0		117	70-130			
<b>VOCs in Vapor as Hexane - Quality Control</b>										
<i>Batch B2A1913 - *** DEFAULT PREP ***</i>										
<b>Blank (B2A1913-BLK1) Prepared &amp; Analyzed: 01/19/22</b>										
Total VOCs as Hexane	<4.9	4.9	ppmv							
<b>Duplicate (B2A1913-DUP1) Source: 2A18011-04 Prepared &amp; Analyzed: 01/19/22</b>										

**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:** A5334422  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs in Vapor as Hexane - Quality Control</b>										
<i>Batch B2A1913 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B2A1913-DUP1) Continued Source: 2A18011-04 Prepared &amp; Analyzed: 01/19/22</b>										
Total VOCs as Hexane	160	4.9	ppmv		151			5.50	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:** A5334422  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22

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### Special Notes

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

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**Viorel Vasile**  
Operations Manager





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

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February 01, 2022

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013  
A5334423 / 2A18012**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 01/18/22 17:15 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:** A5334423  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22

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

Trunkline#1(East)	2A18012-01	Vapor	5	01/18/22 10:45	01/18/22 17:15
Trunkline#2(South)	2A18012-02	Vapor	5	01/18/22 10:47	01/18/22 17:15
Trunkline#3(Central S)	2A18012-03	Vapor	5	01/18/22 10:53	01/18/22 17:15
Trunkline#4(Central E)	2A18012-04	Vapor	5	01/18/22 10:51	01/18/22 17:15
Trunkline#5(Central W)	2A18012-05	Vapor	5	01/18/22 10:49	01/18/22 17:15

**VOCs Gasoline Range Organics Vapor**

Trunkline#1(East)	2A18012-01	Vapor	5	01/18/22 10:45	01/18/22 17:15
Trunkline#2(South)	2A18012-02	Vapor	5	01/18/22 10:47	01/18/22 17:15
Trunkline#3(Central S)	2A18012-03	Vapor	5	01/18/22 10:53	01/18/22 17:15
Trunkline#4(Central E)	2A18012-04	Vapor	5	01/18/22 10:51	01/18/22 17:15
Trunkline#5(Central W)	2A18012-05	Vapor	5	01/18/22 10:49	01/18/22 17:15

**VOCs in Vapor as Hexane**

Trunkline#1(East)	2A18012-01	Vapor	5	01/18/22 10:45	01/18/22 17:15
Trunkline#2(South)	2A18012-02	Vapor	5	01/18/22 10:47	01/18/22 17:15
Trunkline#3(Central S)	2A18012-03	Vapor	5	01/18/22 10:53	01/18/22 17:15
Trunkline#4(Central E)	2A18012-04	Vapor	5	01/18/22 10:51	01/18/22 17:15
Trunkline#5(Central W)	2A18012-05	Vapor	5	01/18/22 10:49	01/18/22 17:15

**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:** 0.1**Method:** VOCs BTEX/MTBE Vapor by GC/MS 8260M**AA Project No:** A5334423**Date Received:** 01/18/22**Date Reported:** 02/01/22**Sampled:** 01/18/22**Prepared:** 01/20/22**Analyzed:** 01/20/22**Trunkline#1(East)****2A18012-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	<b>0.37</b>	ug/L	0.50	<b>0.12</b>	ppmv	0.16
Ethylbenzene	<b>0.21</b>	ug/L	0.50	<b>0.048</b>	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<0.20	ug/L	2.0	<0.055	ppmv	0.55
Toluene	<b>0.13</b>	ug/L	0.50	<b>0.034</b>	ppmv	0.13
o-Xylene	<b>0.11</b>	ug/L	0.50	<b>0.025</b>	ppmv	0.12
m,p-Xylenes	<b>0.46</b>	ug/L	1.0	<b>0.11</b>	ppmv	0.23

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

4-Bromofluorobenzene

100 %

70-140

Dibromofluoromethane

102 %

70-140

Toluene-d8

95.7 %

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:** 0.5  
**Method:** VOCs BTEX/MTBE Vapor by GC/MS 8260M

**AA Project No:** A5334423  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22  
**Sampled:** 01/18/22  
**Prepared:** 01/20/22  
**Analyzed:** 01/20/22

**Trunkline#2(South)**  
**2A18012-02 (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	98.4 %	70-140
Dibromofluoromethane	89.2 %	70-140
Toluene-d8	95.7 %	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:** 0.5  
**Method:** VOCs BTEX/MTBE Vapor by GC/MS 8260M

**AA Project No:** A5334423  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22  
**Sampled:** 01/18/22  
**Prepared:** 01/20/22  
**Analyzed:** 01/20/22

**Trunkline#3(Central S)**

**2A18012-03 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	1.4	ug/L	0.50	0.44	ppmv	0.16
Ethylbenzene	0.56	ug/L	0.50	0.13	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	0.32	ug/L	0.50	0.074	ppmv	0.12
m,p-Xylenes	1.6	ug/L	1.0	0.37	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	93.5 %	70-140
Dibromofluoromethane	85.1 %	70-140
Toluene-d8	94.4 %	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:** 0.5  
**Method:** VOCs BTEX/MTBE Vapor by GC/MS 8260M

**AA Project No:** A5334423  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22  
**Sampled:** 01/18/22  
**Prepared:** 01/20/22  
**Analyzed:** 01/20/22

**Trunkline#4(Central E)**

**2A18012-04 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	7.7	ug/L	0.50	2.4	ppmv	0.16
Ethylbenzene	2.5	ug/L	0.50	0.58	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<1.0	ug/L	2.0	<0.28	ppmv	0.55
Toluene	7.5	ug/L	0.50	2.0	ppmv	0.13
o-Xylene	3.7	ug/L	0.50	0.85	ppmv	0.12
m,p-Xylenes	9.2	ug/L	1.0	2.1	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	96.4 %	70-140
Dibromofluoromethane	94.6 %	70-140
Toluene-d8	108 %	70-140

**Viorel Vasile**  
 Operations Manager



### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334423  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22  
**Sampled:** 01/18/22  
**Prepared:** 01/20/22  
**Analyzed:** 01/20/22

**Trunkline#5(Central W)**

**2A18012-05 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	1.0	ug/L	0.50	0.31	ppmv	0.16
Ethylbenzene	0.58	ug/L	0.50	0.13	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	95.1 %	70-140
Dibromofluoromethane	96.2 %	70-140
Toluene-d8	91.7 %	70-140

**Viorel Vasile**  
 Operations Manager



**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5334423  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22  
**Sampled:** 01/18/22  
**Prepared:** 01/20/22  
**Analyzed:** 01/20/22

**Trunkline#1(East)**  
**2A18012-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<b>1800</b>	ug/L	20	<b>440</b>	ppmv	4.9
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
a,a,a-Trifluorotoluene		109 %			70-130	

**Viorel Vasile**  
Operations Manager



**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5334423  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22  
**Sampled:** 01/18/22  
**Prepared:** 01/20/22  
**Analyzed:** 01/20/22

**Trunkline#2(South)**

**2A18012-02 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<b>870</b>	ug/L	20	<b>210</b>	ppmv	4.9
<b>Surrogates</b>		<b>%REC</b>			<b>%REC Limits</b>	
a,a,a-Trifluorotoluene		110 %			70-130	

**Viorel Vasile**  
Operations Manager





## LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334423  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22  
**Sampled:** 01/18/22  
**Prepared:** 01/20/22  
**Analyzed:** 01/20/22

### Trunkline#3(Central S)

### 2A18012-03 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<b>780</b>	ug/L	20	<b>190</b>	ppmv	4.9
<b><u>Surrogates</u></b>						
a,a,a-Trifluorotoluene		<u>%REC</u>				<u>%REC Limits</u>
		113 %				70-130

**Viorel Vasile**  
 Operations Manager



## LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334423  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22  
**Sampled:** 01/18/22  
**Prepared:** 01/20/22  
**Analyzed:** 01/20/22

### Trunkline#4(Central E)

### 2A18012-04 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<b>4400</b>	ug/L	20	<b>1100</b>	ppmv	4.9
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>				<b><u>%REC Limits</u></b>
a,a,a-Trifluorotoluene		117 %				70-130

**Viorel Vasile**  
 Operations Manager



## LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334423  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22  
**Sampled:** 01/18/22  
**Prepared:** 01/20/22  
**Analyzed:** 01/20/22

### Trunkline#5(Central W)

### 2A18012-05 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<b>1700</b>	ug/L	20	<b>420</b>	ppmv	4.9
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>				<b><u>%REC Limits</u></b>
a,a,a-Trifluorotoluene		95.3 %				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  
**Method:** VOCs in Vapor as Hexane

**AA Project No:** A5334423  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22  
**Units:** ppmv

<b>Date Sampled:</b>	01/18/22	01/18/22	01/18/22	01/18/22	
<b>Date Prepared:</b>	01/20/22	01/20/22	01/20/22	01/20/22	
<b>Date Analyzed:</b>	01/20/22	01/20/22	01/20/22	01/20/22	
<b>AA ID No:</b>	2A18012-01	2A18012-02	2A18012-03	2A18012-04	
<b>Client ID No:</b>	Trunkline#1(East)	Trunkline#2(South)	Trunkline#3(Centr al S)	Trunkline#4(Centr al E)	
<b>Matrix:</b>	Vapor	Vapor	Vapor	Vapor	
<b>Dilution Factor:</b>	1	1	1	5	MRL

#### VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	<b>330</b>	<b>160</b>	<b>140</b>	<b>790</b>	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:** VOCs in Vapor as Hexane

**AA Project No:** A5334423  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22  
**Units:** ppmv

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<b>Date Sampled:</b>	01/18/22	
<b>Date Prepared:</b>	01/20/22	
<b>Date Analyzed:</b>	01/20/22	
<b>AA ID No:</b>	2A18012-05	
<b>Client ID No:</b>	Trunkline#5(Centr al W)	
<b>Matrix:</b>	Vapor	
<b>Dilution Factor:</b>	1	MRL

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### VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	<b>310</b>	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:** A5334423  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>										
<i>Batch B2A2015 - *** DEFAULT PREP ***</i>										
<b>Blank (B2A2015-BLK1)</b> Prepared & Analyzed: 01/20/22										
Benzene	<0.50	0.50	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	49.6		ug/L	50.0		99.1	70-140			
<i>Surrogate: Dibromofluoromethane</i>	52.0		ug/L	50.0		104	70-140			
<i>Surrogate: Toluene-d8</i>	45.9		ug/L	50.0		91.8	70-140			
<b>LCS (B2A2015-BS1)</b> Prepared & Analyzed: 01/20/22										
Benzene	<b>18.3</b>	0.50	ug/L	20.0		91.3	75-125			
Ethylbenzene	<b>21.0</b>	0.50	ug/L	20.0		105	75-125			
Methyl-tert-Butyl Ether (MTBE)	<b>49.2</b>	2.0	ug/L	40.0		123	75-125			
Toluene	<b>20.7</b>	0.50	ug/L	20.0		103	75-125			
o-Xylene	<b>21.9</b>	0.50	ug/L	20.0		110	75-125			
m,p-Xylenes	<b>43.9</b>	1.0	ug/L	40.0		110	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	48.3		ug/L	50.0		96.6	70-140			
<i>Surrogate: Dibromofluoromethane</i>	45.9		ug/L	50.0		91.9	70-140			
<i>Surrogate: Toluene-d8</i>	49.6		ug/L	50.0		99.3	70-140			
<b>LCS Dup (B2A2015-BSD1)</b> Prepared: 01/20/22 Analyzed: 01/21/22										
Benzene	<b>19.5</b>	0.50	ug/L	20.0		97.4	75-125	6.41	30	
Ethylbenzene	<b>22.2</b>	0.50	ug/L	20.0		111	75-125	5.66	30	
Methyl-tert-Butyl Ether (MTBE)	<b>48.0</b>	2.0	ug/L	40.0		120	75-125	2.37	30	
Toluene	<b>22.0</b>	0.50	ug/L	20.0		110	75-125	6.00	30	
o-Xylene	<b>22.7</b>	0.50	ug/L	20.0		113	75-125	3.45	30	
m,p-Xylenes	<b>46.9</b>	1.0	ug/L	40.0		117	75-125	6.58	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	49.0		ug/L	50.0		98.0	70-140			
<i>Surrogate: Dibromofluoromethane</i>	51.1		ug/L	50.0		102	70-140			
<i>Surrogate: Toluene-d8</i>	47.8		ug/L	50.0		95.6	70-140			
<b>Duplicate (B2A2015-DUP1)</b> Source: 2A18012-01 Prepared & Analyzed: 01/20/22										

**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:** A5334423  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>										
<i>Batch B2A2015 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B2A2015-DUP1) Continued Source: 2A18012-01 Prepared &amp; Analyzed: 01/20/22</b>										
Benzene	0.358	0.050	ug/L		0.368			2.75	30	
Ethylbenzene	0.219	0.050	ug/L		0.210			4.20	30	
Methyl-tert-Butyl Ether (MTBE)	<0.20	0.20	ug/L		<0.20				30	
Toluene	0.137	0.050	ug/L		0.126			8.37	30	
o-Xylene	0.130	0.050	ug/L		0.107			19.4	30	
m,p-Xylenes	0.494	0.10	ug/L		0.456			8.00	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	47.5		ug/L	50.0		95.0	70-140			
<i>Surrogate: Dibromofluoromethane</i>	44.0		ug/L	50.0		88.1	70-140			
<i>Surrogate: Toluene-d8</i>	48.0		ug/L	50.0		96.0	70-140			
<b>Gasoline Range Organics in Vapor by GC/FID - Quality Control</b>										
<i>Batch B2A2013 - *** DEFAULT PREP ***</i>										
<b>Blank (B2A2013-BLK1) Prepared &amp; Analyzed: 01/20/22</b>										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	54.0		ug/L	50.0		108	70-130			
<b>LCS (B2A2013-BS1) Prepared &amp; Analyzed: 01/20/22</b>										
Gasoline Range Organics (GRO)	469	20	ug/L	500		93.7	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	59.7		ug/L	50.0		119	70-130			
<b>LCS Dup (B2A2013-BSD1) Prepared &amp; Analyzed: 01/20/22</b>										
Gasoline Range Organics (GRO)	498	20	ug/L	500		99.6	75-125	6.12	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	62.9		ug/L	50.0		126	70-130			
<b>Duplicate (B2A2013-DUP1) Source: 2A18012-03 Prepared &amp; Analyzed: 01/20/22</b>										
Gasoline Range Organics (GRO)	607	100	ug/L		776			24.4	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	53.2		ug/L	50.0		106	70-130			
<b>VOCs in Vapor as Hexane - Quality Control</b>										
<i>Batch B2A2013 - *** DEFAULT PREP ***</i>										
<b>Blank (B2A2013-BLK1) Prepared &amp; Analyzed: 01/20/22</b>										
Total VOCs as Hexane	<4.9	4.9	ppmv							
<b>Duplicate (B2A2013-DUP1) Source: 2A18012-03 Prepared &amp; Analyzed: 01/20/22</b>										

**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:** A5334423  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs in Vapor as Hexane - Quality Control</b>										
<i>Batch B2A2013 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B2A2013-DUP1) Continued Source: 2A18012-03 Prepared &amp; Analyzed: 01/20/22</b>										
Total VOCs as Hexane	111	24	ppmv		140			23.3	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:** A5334423  
**Date Received:** 01/18/22  
**Date Reported:** 02/01/22

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### Special Notes

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

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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

24062

Page 1 of 1

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

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

**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	BTEX/MTBE 8260B		
Trunkline#1 (East)	1-18-22	1045	Air	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	VOC's reported as	
Trunkline#2 (South)		1047	Air	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GRO (detection limit = 4.9 ppmv) and	
Trunkline#3 (Central S)		1053	Air	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	VOCs as Hexane	
Trunkline#4 (Central E)		1051	Air	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(detection limit = 4.9 ppmv)	
Trunkline#5 (Central W)		1049	Air	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Benzene (detection limit = 0.15 ppmv)	
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>PRIORITY</b>            DATE: 1/18/22 0900            SIGN: <i>[Signature]</i> </div>									
					Relinquished by		Date	Time	Received by
					<i>Glenn Androsko</i>		1-18-22	2:30	<i>[Signature]</i>
					Relinquished by		Date	Time	Received by
					<i>[Signature]</i>		1-18-22	1:15	<i>[Signature]</i>
					Relinquished by		Date	Time	Received by

A5334423/2A18012

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.



**ENTHALPY**  
ANALYTICAL

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

enthalpy.com

Lab Job Number: 457041  
Report Level: II  
Report Date: 02/02/2022

**Analytical Report** *prepared for:*

Imedia 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](mailto: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

## Sample Summary

---

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

Lab Job #: 457041  
Project No: PERMIT #22453\_WW  
Location: WW  
Date Received: 01/19/22

---

Sample ID	Lab ID	Collected	Matrix
SURGE TANK_01-19-22	457041-001	01/19/22 13:46	Water
EFFLUENT_01-19-22	457041-002	01/19/22 13:20	Water

667041

<b>CHAIN OF CUSTODY RECORD</b>		<b>ENTHALPY ANALYTICAL</b>		Lab Number: <b>15881</b>
931 W. Barkley, Orange, CA 92668 Phone: (714) 771-6900 Fax: (714) 771-9833		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		Client ID: <b>15881</b>
Billing: Enthalpy Analytical c/o Montrose Environmental Group Inc. P.O. Box 741137, Los Angeles, CA 90074-1137		www.enthalpy.com		Page: 1 of 1
<b>CUSTOMER INFORMATION</b>		<b>PROJECT INFORMATION</b>		<b>Turn Around Time</b>
Company: <b>APEX</b>	Name: <b>WW</b>	Standard	<b>X</b>	
Report To: <b>Imelda Morales</b>	Number: <b>Permit #22453</b>	72 Hours		
Email: <b>imelmora@apex.com</b>	Address: <b>15306 Norwalk Blvd</b>	48 Hours		
	<b>Nonwalk, CA 90650</b>	24 Hours		
Address: <b>1982 Freeman Ave</b>	Global ID:	Same Day		
	<b>Signal Hill, CA 90755</b>			
Phone: <b>562-597-1055</b>	P.O. #:			
Fax:	Sampled By: <b>Glenn Androsko</b>			
	Matrix	Container	Pres.	
Sample ID	Date	Time		
1 Surge Tank_01-19-22	1-19-22	1346	W	*
2 Effluent_01-19-22	11	1320	W	*
3			X	X
4			X	X
5			X	X
6			X	X
7			X	X
8			X	X
9			X	X
10			X	X
11			X	X
12			X	X
13			X	X
14			X	X
<b>Meter Readings</b>		pH	Temp.	Time
1) Begin:				
End:				
2) Begin:				
End:				
3) Begin:				
End:				
4) Begin:				
End:				
		1 Received By: <b>Glenn Androsko</b>	2 Received By:	3 Received By:
		Print Name: <b>Glenn Androsko</b>	Print Name:	Print Name:
		Date: <b>1-19-22</b>	Date:	Date:
		Time: <b>1535</b>	Time:	Time:
		1 Relinquished By:	2 Relinquished By:	3 Relinquished By:
		Print Name:	Print Name:	Print Name:
		Date:	Date:	Date:
		Time:	Time:	Time:
		4 Received By:	4 Received By:	4 Received By:
		Print Name:	Print Name:	Print Name:
		Date:	Date:	Date:
		Time:	Time:	Time:

17-1/10-1



# ENTHALPY ANALYTICAL

## SAMPLE ACCEPTANCE CHECKLIST

**Section 1**  
 Client: APEX - Signal Hill Project: \_\_\_\_\_  
 Date Received: 1/19/22 Sampler'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: 17.1 #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: 6.1 #2: \_\_\_\_\_ #3: \_\_\_\_\_ #4: \_\_\_\_\_

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

**Section 5 Explanations/Comments**  
 \_\_\_\_\_  
 \_\_\_\_\_

**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: 1/19/22

## Analysis Results for 457041

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

Lab Job #: 457041  
 Project No: PERMIT #22453\_WW  
 Location: WW  
 Date Received: 01/19/22

<b>Sample ID: SURGE TANK_01-19-22</b>	<b>Lab ID: 457041-001</b>	<b>Collected: 01/19/22 13:46</b>
<b>Matrix: Water</b>		

457041-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 624.1									
Prep Method: EPA 624.1									
MTBE	ND		ug/L	5.0	1	282206	01/20/22	01/20/22	TCN
Isopropyl Ether (DIPE)	ND		ug/L	5.0	1	282206	01/20/22	01/20/22	TCN
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	1	282206	01/20/22	01/20/22	TCN
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	1	282206	01/20/22	01/20/22	TCN
tert-Butyl Alcohol (TBA)	<b>36</b>		ug/L	10	1	282206	01/20/22	01/20/22	TCN
m,p-Xylenes	ND		ug/L	10	1	282206	01/20/22	01/20/22	TCN
o-Xylene	ND		ug/L	5.0	1	282206	01/20/22	01/20/22	TCN
Benzene	ND		ug/L	5.0	1	282206	01/20/22	01/20/22	TCN
Toluene	ND		ug/L	5.0	1	282206	01/20/22	01/20/22	TCN
Ethylbenzene	ND		ug/L	5.0	1	282206	01/20/22	01/20/22	TCN
Xylene (total)	ND		ug/L	5.0	1	282206	01/20/22	01/20/22	TCN
<b>Surrogates</b>				<b>Limits</b>					
Dibromofluoromethane	103%		%REC	70-140	1	282206	01/20/22	01/20/22	TCN
1,2-Dichloroethane-d4	103%		%REC	70-140	1	282206	01/20/22	01/20/22	TCN
Toluene-d8	100%		%REC	70-140	1	282206	01/20/22	01/20/22	TCN
Bromofluorobenzene	103%		%REC	70-140	1	282206	01/20/22	01/20/22	TCN
Method: EPA 8015B									
Prep Method: EPA 5030B									
TPH Gasoline	<b>210</b>		ug/L	50	1	282266	01/21/22	01/21/22	EMW
<b>Surrogates</b>				<b>Limits</b>					
Bromofluorobenzene (FID)	89%		%REC	60-140	1	282266	01/21/22	01/21/22	EMW
Method: EPA 8015B									
Prep Method: EPA 3510C									
Diesel C10-C28	<b>0.83</b>		mg/L	0.10	1	282150	01/19/22	01/20/22	TJW
<b>Surrogates</b>				<b>Limits</b>					
n-Triacontane	84%		%REC	35-130	1	282150	01/19/22	01/20/22	TJW

## Analysis Results for 457041

**Sample ID: EFFLUENT\_01-19-22**
**Lab ID: 457041-002**
**Collected: 01/19/22 13:20**
**Matrix: Water**

457041-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 624.1									
Prep Method: EPA 624.1									
MTBE	ND		ug/L	5.0	1	282206	01/20/22	01/20/22	TCN
Isopropyl Ether (DIPE)	ND		ug/L	5.0	1	282206	01/20/22	01/20/22	TCN
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	1	282206	01/20/22	01/20/22	TCN
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	1	282206	01/20/22	01/20/22	TCN
tert-Butyl Alcohol (TBA)	ND		ug/L	10	1	282206	01/20/22	01/20/22	TCN
m,p-Xylenes	ND		ug/L	10	1	282206	01/20/22	01/20/22	TCN
o-Xylene	ND		ug/L	5.0	1	282206	01/20/22	01/20/22	TCN
Benzene	ND		ug/L	5.0	1	282206	01/20/22	01/20/22	TCN
Toluene	ND		ug/L	5.0	1	282206	01/20/22	01/20/22	TCN
Ethylbenzene	ND		ug/L	5.0	1	282206	01/20/22	01/20/22	TCN
Xylene (total)	ND		ug/L	5.0	1	282206	01/20/22	01/20/22	TCN
<b>Surrogates</b>				<b>Limits</b>					
Dibromofluoromethane	96%		%REC	70-140	1	282206	01/20/22	01/20/22	TCN
1,2-Dichloroethane-d4	98%		%REC	70-140	1	282206	01/20/22	01/20/22	TCN
Toluene-d8	101%		%REC	70-140	1	282206	01/20/22	01/20/22	TCN
Bromofluorobenzene	100%		%REC	70-140	1	282206	01/20/22	01/20/22	TCN
Method: EPA 8015B									
Prep Method: EPA 5030B									
TPH Gasoline	ND		ug/L	50	1	282266	01/21/22	01/21/22	EMW
<b>Surrogates</b>				<b>Limits</b>					
Bromofluorobenzene (FID)	88%		%REC	60-140	1	282266	01/21/22	01/21/22	EMW
Method: EPA 8015B									
Prep Method: EPA 3510C									
Diesel C10-C28	ND		mg/L	0.10	1	282150	01/19/22	01/20/22	TJW
<b>Surrogates</b>				<b>Limits</b>					
n-Triacontane	76%		%REC	35-130	1	282150	01/19/22	01/20/22	TJW

ND Not Detected



## Batch QC

<b>Type: Blank</b>	<b>Lab ID: QC967440</b>	<b>Batch: 282150</b>
<b>Matrix: Water</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 3510C</b>

QC967440 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Diesel C10-C28	ND		mg/L	0.10	01/19/22	01/20/22
<b>Surrogates</b>				<b>Limits</b>		
n-Triacontane	91%		%REC	35-130	01/19/22	01/20/22

<b>Type: Lab Control Sample</b>	<b>Lab ID: QC967441</b>	<b>Batch: 282150</b>
<b>Matrix: Water</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 3510C</b>

QC967441 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Diesel C10-C28	0.8938	1.000	mg/L	89%		42-120
<b>Surrogates</b>						
n-Triacontane	0.01835	0.02000	mg/L	92%		35-130

<b>Type: Lab Control Sample Duplicate</b>	<b>Lab ID: QC967442</b>	<b>Batch: 282150</b>
<b>Matrix: Water</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 3510C</b>

QC967442 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Diesel C10-C28	0.9369	1.000	mg/L	94%		42-120	5	36
<b>Surrogates</b>								
n-Triacontane	0.01887	0.02000	mg/L	94%		35-130		

<b>Type: Blank</b>	<b>Lab ID: QC967608</b>	<b>Batch: 282206</b>
<b>Matrix: Water</b>	<b>Method: EPA 624.1</b>	<b>Prep Method: EPA 624.1</b>

QC967608 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
MTBE	ND		ug/L	5.0	01/20/22	01/20/22
Isopropyl Ether (DIPE)	ND		ug/L	5.0	01/20/22	01/20/22
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	01/20/22	01/20/22
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	01/20/22	01/20/22
tert-Butyl Alcohol (TBA)	ND		ug/L	10	01/20/22	01/20/22
m,p-Xylenes	ND		ug/L	10	01/20/22	01/20/22
o-Xylene	ND		ug/L	5.0	01/20/22	01/20/22
Benzene	ND		ug/L	5.0	01/20/22	01/20/22
Toluene	ND		ug/L	5.0	01/20/22	01/20/22
Ethylbenzene	ND		ug/L	5.0	01/20/22	01/20/22
Xylene (total)	ND		ug/L	5.0	01/20/22	01/20/22
<b>Surrogates</b>				<b>Limits</b>		
Dibromofluoromethane	99%		%REC	70-140	01/20/22	01/20/22
1,2-Dichloroethane-d4	97%		%REC	70-140	01/20/22	01/20/22
Toluene-d8	102%		%REC	70-140	01/20/22	01/20/22
Bromofluorobenzene	102%		%REC	70-140	01/20/22	01/20/22

## Batch QC

<b>Type: Lab Control Sample</b>	<b>Lab ID: QC967609</b>	<b>Batch: 282206</b>
<b>Matrix: Water</b>	<b>Method: EPA 624.1</b>	<b>Prep Method: EPA 624.1</b>

QC967609 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
MTBE	54.89	50.00	ug/L	110%		70-130
Isopropyl Ether (DIPE)	57.37	50.00	ug/L	115%		70-130
Ethyl tert-Butyl Ether (ETBE)	57.73	50.00	ug/L	115%		70-130
Methyl tert-Amyl Ether (TAME)	56.52	50.00	ug/L	113%		70-130
tert-Butyl Alcohol (TBA)	259.4	250.0	ug/L	104%		51-130
m,p-Xylenes	120.3	100.0	ug/L	120%		70-130
o-Xylene	60.07	50.00	ug/L	120%		70-130
Benzene	56.99	50.00	ug/L	114%		70-130
Toluene	56.58	50.00	ug/L	113%		70-130
Ethylbenzene	58.67	50.00	ug/L	117%		70-130
<b>Surrogates</b>						
Dibromofluoromethane	51.64	50.00	ug/L	103%		70-140
1,2-Dichloroethane-d4	51.17	50.00	ug/L	102%		70-140
Toluene-d8	49.19	50.00	ug/L	98%		70-140
Bromofluorobenzene	50.48	50.00	ug/L	101%		70-140

<b>Type: Lab Control Sample Duplicate</b>	<b>Lab ID: QC967610</b>	<b>Batch: 282206</b>
<b>Matrix: Water</b>	<b>Method: EPA 624.1</b>	<b>Prep Method: EPA 624.1</b>

QC967610 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
MTBE	52.86	50.00	ug/L	106%		70-130	4	30
Isopropyl Ether (DIPE)	53.58	50.00	ug/L	107%		70-130	7	30
Ethyl tert-Butyl Ether (ETBE)	54.02	50.00	ug/L	108%		70-130	7	30
Methyl tert-Amyl Ether (TAME)	53.75	50.00	ug/L	107%		70-130	5	30
tert-Butyl Alcohol (TBA)	262.1	250.0	ug/L	105%		51-130	1	30
m,p-Xylenes	111.2	100.0	ug/L	111%		70-130	8	30
o-Xylene	55.77	50.00	ug/L	112%		70-130	7	30
Benzene	53.75	50.00	ug/L	107%		70-130	6	30
Toluene	52.66	50.00	ug/L	105%		70-130	7	30
Ethylbenzene	54.60	50.00	ug/L	109%		70-130	7	30
<b>Surrogates</b>								
Dibromofluoromethane	50.80	50.00	ug/L	102%		70-140		
1,2-Dichloroethane-d4	50.73	50.00	ug/L	101%		70-140		
Toluene-d8	49.12	50.00	ug/L	98%		70-140		
Bromofluorobenzene	49.03	50.00	ug/L	98%		70-140		

## Batch QC

<b>Type: Lab Control Sample</b>	<b>Lab ID: QC967776</b>	<b>Batch: 282266</b>
<b>Matrix: Water</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 5030B</b>

QC967776 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
TPH Gasoline	533.3	500.0	ug/L	107%		70-130
<b>Surrogates</b>						
Bromofluorobenzene (FID)	204.8	200.0	ug/L	102%		60-140

<b>Type: Matrix Spike</b>	<b>Lab ID: QC967777</b>	<b>Batch: 282266</b>
<b>Matrix (Source ID): Water (457060-001)</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 5030B</b>

QC967777 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
TPH Gasoline	518.6	ND	500.0	ug/L	104%		70-130	1
<b>Surrogates</b>								
Bromofluorobenzene (FID)	167.2		200.0	ug/L	84%		60-140	1

<b>Type: Matrix Spike Duplicate</b>	<b>Lab ID: QC967778</b>	<b>Batch: 282266</b>
<b>Matrix (Source ID): Water (457060-001)</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 5030B</b>

QC967778 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
TPH Gasoline	510.0	ND	500.0	ug/L	102%		70-130	2	30	1
<b>Surrogates</b>										
Bromofluorobenzene (FID)	184.7		200.0	ug/L	92%		60-140			1

<b>Type: Blank</b>	<b>Lab ID: QC967779</b>	<b>Batch: 282266</b>
<b>Matrix: Water</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 5030B</b>

QC967779 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
TPH Gasoline	ND		ug/L	50	01/21/22	01/21/22
<b>Surrogates</b>						
Bromofluorobenzene (FID)	80%		%REC	60-140	01/21/22	01/21/22

ND Not Detected



**ENTHALPY**  
ANALYTICAL

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

enthalpy.com

Lab Job Number: 458407  
Report Level: II  
Report Date: 03/02/2022

**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](mailto: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

## Sample Summary

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

Lab Job #: 458407  
Project No: PERMIT #22453\_WW  
Location: WW  
Date Received: 02/16/22

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<b>Sample ID</b>	<b>Lab ID</b>	<b>Collected</b>	<b>Matrix</b>
SURGE TANK_02-16-22	458407-001	02/16/22 09:42	Water

## Case Narrative

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

Lab Job Number: 458407  
Project No: PERMIT #22453\_WW  
Location: WW  
Date Received: 02/16/22

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This data package contains sample and QC results for one water sample, requested for the above referenced project on 02/16/22. The sample was received cold and intact.

**Metals (EPA 200.7 and EPA 245.1):**

Low recoveries were observed for mercury in the MS/MSD for batch 284171; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

**CHAIN OF CUSTODY RECORD**  
 931 W. Barkley, Orange, CA 92668  
 Phone: (714) 771-6900 Fax: (714) 771-9833  
 Billing: Enthalpy Analytical  
 c/o Montrose Environmental Group Inc.  
 P.O. Box 741137, Los Angeles, CA 90074-1137

**ENTHALPY ANALYTICAL**  
 Lab Number: 458457  
 Client ID: 15881  
 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\*\*\*\*

**ENTHALPY ANALYTICAL**

**CUSTOMER INFORMATION**  
 Company: APEX  
 Report To: Imelda Morales  
 Email: imelmora@apex.com, glenn.androsko@apex.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

Sample ID	Date	Time	Temp.	pH	Matrix	Container	Pres.	8015 TPHD (DRO)	8015 TPHG (GRO)	824-VOCs (BTEX plus)	PA 200.7-Total As, Cd, Cr, Cu, Pb, Ni, Ag, Zn	PA 245.1-Mercury (Hg)	Test Instruction & Comments
1	Surge Tank_02-16-22	2-16-22	0942		W	*	*	X	X	X	X	X	Enthalpy Quote No.: APEX_012120
2													*TPHD - 1L amber, unpreserved
3													*TPHG - 3x 40ml VOA Vials w/HCl
4													*VOCs - 3x 40ml VOA Vials w/HCl
5													*Metals (Total As, Cd, Cr, Cu, Pb, Ni, Ag, Zn) - 250ml poly w/HNO3
6													*Mercury (Hg) - included with 'Metals', not a separate container
7													
8													
9													
10													
11													
12													
13													
14													

**Meter Readings**

1) Begin:	End:	2) Begin:	End:	3) Begin:	End:	4) Begin:	End:

Relinquished By: Glenn Androsko  
 Print Name: Glenn Androsko  
 Date: 2-16-22 1555  
 Time: 2/16/22 1555

Received By: [Signature]  
 Print Name: [Signature]  
 Date: [Signature]  
 Time: [Signature]

Relinquished By: [Signature]  
 Print Name: [Signature]  
 Date: [Signature]  
 Time: [Signature]



# ENTHALPY ANALYTICAL

## SAMPLE ACCEPTANCE CHECKLIST

**Section 1**  
 Client: APEX Project: WW PERMIT # 22453  
 Date Received: 2/16/22 Sampler'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: 9.1 #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: 5.0 #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**  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**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: 2/16/22



## Analysis Results for 458407

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

Lab Job #: 458407  
 Project No: PERMIT #22453\_WW  
 Location: WW  
 Date Received: 02/16/22

**Sample ID: SURGE TANK\_02-16-22      Lab ID: 458407-001      Collected: 02/16/22 09:42**  
**Matrix: Water**

458407-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 200.7 Prep Method: EPA 200.7									
Cadmium	ND		mg/L	0.0050	1	284002	02/17/22	02/21/22	KLN
Chromium	ND		mg/L	0.010	1	284002	02/17/22	02/21/22	KLN
Copper	ND		mg/L	0.010	1	284002	02/17/22	02/21/22	KLN
Lead	ND		mg/L	0.010	1	284002	02/17/22	02/21/22	KLN
Nickel	ND		mg/L	0.010	1	284002	02/17/22	02/21/22	KLN
Silver	ND		mg/L	0.0050	1	284002	02/17/22	02/21/22	KLN
Zinc	ND		mg/L	0.050	1	284002	02/17/22	02/21/22	KLN
Arsenic	<b>0.049</b>		mg/L	0.010	1	284002	02/17/22	02/21/22	KLN
Method: EPA 245.1 Prep Method: METHOD									
Mercury	ND		ug/L	0.40	1	284171	02/21/22	02/21/22	KLN
Method: EPA 624.1 Prep Method: EPA 624.1									
MTBE	ND		ug/L	5.0	1	283950	02/17/22	02/17/22	TCN
Isopropyl Ether (DIPE)	ND		ug/L	5.0	1	283950	02/17/22	02/17/22	TCN
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	1	283950	02/17/22	02/17/22	TCN
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	1	283950	02/17/22	02/17/22	TCN
tert-Butyl Alcohol (TBA)	<b>46</b>		ug/L	10	1	283950	02/17/22	02/17/22	TCN
m,p-Xylenes	ND		ug/L	10	1	283950	02/17/22	02/17/22	TCN
o-Xylene	ND		ug/L	5.0	1	283950	02/17/22	02/17/22	TCN
Benzene	ND		ug/L	5.0	1	283950	02/17/22	02/17/22	TCN
Toluene	ND		ug/L	5.0	1	283950	02/17/22	02/17/22	TCN
Ethylbenzene	ND		ug/L	5.0	1	283950	02/17/22	02/17/22	TCN
Xylene (total)	ND		ug/L	5.0	1	283950	02/17/22	02/17/22	TCN
<b>Surrogates</b>	<b>Limits</b>								
Dibromofluoromethane	100%		%REC	70-140	1	283950	02/17/22	02/17/22	TCN
1,2-Dichloroethane-d4	106%		%REC	70-140	1	283950	02/17/22	02/17/22	TCN
Toluene-d8	104%		%REC	70-140	1	283950	02/17/22	02/17/22	TCN
Bromofluorobenzene	107%		%REC	70-140	1	283950	02/17/22	02/17/22	TCN
Method: EPA 8015B Prep Method: EPA 5030B									
TPH Gasoline	<b>55</b>		ug/L	50	1	284017	02/22/22	02/22/22	EMW
<b>Surrogates</b>	<b>Limits</b>								
Bromofluorobenzene (FID)	91%		%REC	60-140	1	284017	02/22/22	02/22/22	EMW

## Analysis Results for 458407

458407-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015B									
Prep Method: EPA 3510C									
Diesel C10-C28	<b>0.42</b>		mg/L	0.094	0.94	283974	02/17/22	02/22/22	MES
<b>Surrogates</b>	<b>Limits</b>								
n-Triacontane	80%		%REC	35-130	0.94	283974	02/17/22	02/22/22	MES

ND Not Detected

## Batch QC

<b>Type: Blank</b>	<b>Lab ID: QC972807</b>	<b>Batch: 283950</b>
<b>Matrix: Water</b>	<b>Method: EPA 624.1</b>	<b>Prep Method: EPA 624.1</b>

QC972807 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
MTBE	ND		ug/L	5.0	02/16/22	02/16/22
Isopropyl Ether (DIPE)	ND		ug/L	5.0	02/16/22	02/16/22
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	02/16/22	02/16/22
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	02/16/22	02/16/22
tert-Butyl Alcohol (TBA)	ND		ug/L	10	02/16/22	02/16/22
m,p-Xylenes	ND		ug/L	10	02/16/22	02/16/22
o-Xylene	ND		ug/L	5.0	02/16/22	02/16/22
Benzene	ND		ug/L	5.0	02/16/22	02/16/22
Toluene	ND		ug/L	5.0	02/16/22	02/16/22
Ethylbenzene	ND		ug/L	5.0	02/16/22	02/16/22
Xylene (total)	ND		ug/L	5.0	02/16/22	02/16/22
Surrogates				Limits		
Dibromofluoromethane	100%		%REC	70-140	02/16/22	02/16/22
1,2-Dichloroethane-d4	108%		%REC	70-140	02/16/22	02/16/22
Toluene-d8	102%		%REC	70-140	02/16/22	02/16/22
Bromofluorobenzene	110%		%REC	70-140	02/16/22	02/16/22

<b>Type: Lab Control Sample</b>	<b>Lab ID: QC972808</b>	<b>Batch: 283950</b>
<b>Matrix: Water</b>	<b>Method: EPA 624.1</b>	<b>Prep Method: EPA 624.1</b>

QC972808 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
MTBE	48.84	50.00	ug/L	98%		70-130
Isopropyl Ether (DIPE)	60.03	50.00	ug/L	120%		70-130
Ethyl tert-Butyl Ether (ETBE)	59.59	50.00	ug/L	119%		70-130
Methyl tert-Amyl Ether (TAME)	54.20	50.00	ug/L	108%		70-130
tert-Butyl Alcohol (TBA)	268.8	250.0	ug/L	108%		51-130
m,p-Xylenes	111.4	100.0	ug/L	111%		70-130
o-Xylene	56.91	50.00	ug/L	114%		70-130
Benzene	52.30	50.00	ug/L	105%		70-130
Toluene	52.35	50.00	ug/L	105%		70-130
Ethylbenzene	55.48	50.00	ug/L	111%		70-130
Surrogates						
Dibromofluoromethane	48.54	50.00	ug/L	97%		70-140
1,2-Dichloroethane-d4	51.30	50.00	ug/L	103%		70-140
Toluene-d8	50.00	50.00	ug/L	100%		70-140
Bromofluorobenzene	52.48	50.00	ug/L	105%		70-140

## Batch QC

<b>Type: Lab Control Sample Duplicate</b>	<b>Lab ID: QC972809</b>	<b>Batch: 283950</b>
<b>Matrix: Water</b>	<b>Method: EPA 624.1</b>	<b>Prep Method: EPA 624.1</b>

QC972809 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
MTBE	46.84	50.00	ug/L	94%		70-130	4	30
Isopropyl Ether (DIPE)	59.69	50.00	ug/L	119%		70-130	1	30
Ethyl tert-Butyl Ether (ETBE)	59.28	50.00	ug/L	119%		70-130	1	30
Methyl tert-Amyl Ether (TAME)	53.46	50.00	ug/L	107%		70-130	1	30
tert-Butyl Alcohol (TBA)	239.2	250.0	ug/L	96%		51-130	12	30
m,p-Xylenes	111.6	100.0	ug/L	112%		70-130	0	30
o-Xylene	56.83	50.00	ug/L	114%		70-130	0	30
Benzene	52.45	50.00	ug/L	105%		70-130	0	30
Toluene	52.36	50.00	ug/L	105%		70-130	0	30
Ethylbenzene	55.78	50.00	ug/L	112%		70-130	1	30
<b>Surrogates</b>								
Dibromofluoromethane	49.99	50.00	ug/L	100%		70-140		
1,2-Dichloroethane-d4	51.09	50.00	ug/L	102%		70-140		
Toluene-d8	50.76	50.00	ug/L	102%		70-140		
Bromofluorobenzene	53.07	50.00	ug/L	106%		70-140		

<b>Type: Blank</b>	<b>Lab ID: QC972897</b>	<b>Batch: 283974</b>
<b>Matrix: Water</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 3510C</b>

QC972897 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Diesel C10-C28	ND		mg/L	0.10	02/17/22	02/21/22
<b>Surrogates</b>				<b>Limits</b>		
n-Triacontane	89%		%REC	35-130	02/17/22	02/21/22

<b>Type: Lab Control Sample</b>	<b>Lab ID: QC972898</b>	<b>Batch: 283974</b>
<b>Matrix: Water</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 3510C</b>

QC972898 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Diesel C10-C28	0.6389	1.000	mg/L	64%		42-120
<b>Surrogates</b>						
n-Triacontane	0.01596	0.02000	mg/L	80%		35-130

<b>Type: Lab Control Sample Duplicate</b>	<b>Lab ID: QC972899</b>	<b>Batch: 283974</b>
<b>Matrix: Water</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 3510C</b>

QC972899 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Diesel C10-C28	0.5784	1.000	mg/L	58%		42-120	10	36
<b>Surrogates</b>								
n-Triacontane	0.01590	0.02000	mg/L	80%		35-130		

## Batch QC

<b>Type: Blank</b>	<b>Lab ID: QC972989</b>	<b>Batch: 284002</b>
<b>Matrix: Water</b>	<b>Method: EPA 200.7</b>	<b>Prep Method: EPA 200.7</b>

QC972989 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Cadmium	ND		mg/L	0.0050	02/17/22	02/21/22
Chromium	ND		mg/L	0.010	02/17/22	02/21/22
Copper	ND		mg/L	0.010	02/17/22	02/21/22
Lead	ND		mg/L	0.010	02/17/22	02/21/22
Nickel	ND		mg/L	0.010	02/17/22	02/21/22
Silver	ND		mg/L	0.0050	02/17/22	02/21/22
Zinc	ND		mg/L	0.050	02/17/22	02/21/22
Arsenic	ND		mg/L	0.010	02/17/22	02/21/22

<b>Type: Lab Control Sample</b>	<b>Lab ID: QC972990</b>	<b>Batch: 284002</b>
<b>Matrix: Water</b>	<b>Method: EPA 200.7</b>	<b>Prep Method: EPA 200.7</b>

QC972990 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Cadmium	0.5284	0.5000	mg/L	106%		85-115
Chromium	0.5452	0.5000	mg/L	109%		85-115
Copper	0.5129	0.5000	mg/L	103%		85-115
Lead	0.5597	0.5000	mg/L	112%		85-115
Nickel	0.5597	0.5000	mg/L	112%		85-115
Silver	0.2425	0.2500	mg/L	97%		85-115
Zinc	0.5203	0.5000	mg/L	104%		85-115
Arsenic	0.5556	0.5000	mg/L	111%		85-115

<b>Type: Matrix Spike</b>	<b>Lab ID: QC972991</b>	<b>Batch: 284002</b>
<b>Matrix (Source ID): Water (458369-001)</b>	<b>Method: EPA 200.7</b>	<b>Prep Method: EPA 200.7</b>

QC972991 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Cadmium	0.5801	ND	0.5000	mg/L	116%		75-125	1
Chromium	0.5996	ND	0.5000	mg/L	120%		75-125	1
Copper	0.5744	ND	0.5000	mg/L	115%		75-125	1
Lead	0.6158	0.001597	0.5000	mg/L	123%		75-125	1
Nickel	0.6109	ND	0.5000	mg/L	122%		75-125	1
Silver	0.2715	ND	0.2500	mg/L	109%		75-125	1
Zinc	0.5627	0.003291	0.5000	mg/L	112%		75-125	1
Arsenic	0.6003	ND	0.5000	mg/L	120%		75-125	1

## Batch QC

<b>Type: Matrix Spike Duplicate</b>	<b>Lab ID: QC972992</b>	<b>Batch: 284002</b>
<b>Matrix (Source ID): Water (458369-001)</b>	<b>Method: EPA 200.7</b>	<b>Prep Method: EPA 200.7</b>

QC972992 Analyte	Result	Source Sample	Spiked	Units	Recovery	Qual	Limits	RPD		DF
		Result						RPD	Lim	
Cadmium	0.5833	ND	0.5000	mg/L	117%		75-125	1	20	1
Chromium	0.6065	ND	0.5000	mg/L	121%		75-125	1	20	1
Copper	0.5733	ND	0.5000	mg/L	115%		75-125	0	20	1
Lead	0.6148	0.001597	0.5000	mg/L	123%		75-125	0	20	1
Nickel	0.6172	ND	0.5000	mg/L	123%		75-125	1	20	1
Silver	0.2717	ND	0.2500	mg/L	109%		75-125	0	20	1
Zinc	0.5664	0.003291	0.5000	mg/L	113%		75-125	1	20	1
Arsenic	0.6047	ND	0.5000	mg/L	121%		75-125	1	20	1

<b>Type: Lab Control Sample</b>	<b>Lab ID: QC973054</b>	<b>Batch: 284017</b>
<b>Matrix: Water</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 5030B</b>

QC973054 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
TPH Gasoline	563.9	500.0	ug/L	113%		70-130
<b>Surrogates</b>						
Bromofluorobenzene (FID)	189.3	200.0	ug/L	95%		60-140

<b>Type: Matrix Spike</b>	<b>Lab ID: QC973055</b>	<b>Batch: 284017</b>
<b>Matrix (Source ID): Water (458425-001)</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 5030B</b>

QC973055 Analyte	Result	Source Sample	Spiked	Units	Recovery	Qual	Limits	DF
		Result						
TPH Gasoline	522.0	ND	500.0	ug/L	104%		70-130	1
<b>Surrogates</b>								
Bromofluorobenzene (FID)	205.5		200.0	ug/L	103%		60-140	1

<b>Type: Matrix Spike Duplicate</b>	<b>Lab ID: QC973056</b>	<b>Batch: 284017</b>
<b>Matrix (Source ID): Water (458425-001)</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 5030B</b>

QC973056 Analyte	Result	Source Sample	Spiked	Units	Recovery	Qual	Limits	RPD		DF
		Result						RPD	Lim	
TPH Gasoline	508.2	ND	500.0	ug/L	102%		70-130	3	30	1
<b>Surrogates</b>										
Bromofluorobenzene (FID)	206.1		200.0	ug/L	103%		60-140			1

## Batch QC

<b>Type: Blank</b>	<b>Lab ID: QC973057</b>	<b>Batch: 284017</b>
<b>Matrix: Water</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 5030B</b>

QC973057 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
TPH Gasoline	ND		ug/L	50	02/22/22	02/22/22
<b>Surrogates</b>				<b>Limits</b>		
Bromofluorobenzene (FID)	87%		%REC	60-140	02/22/22	02/22/22

<b>Type: Blank</b>	<b>Lab ID: QC973531</b>	<b>Batch: 284171</b>
<b>Matrix: Water</b>	<b>Method: EPA 245.1</b>	<b>Prep Method: METHOD</b>

QC973531 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Mercury	ND		ug/L	0.40	02/21/22	02/21/22

<b>Type: Lab Control Sample</b>	<b>Lab ID: QC973532</b>	<b>Batch: 284171</b>
<b>Matrix: Water</b>	<b>Method: EPA 245.1</b>	<b>Prep Method: METHOD</b>

QC973532 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Mercury	5.019	5.000	ug/L	100%		85-115

<b>Type: Matrix Spike</b>	<b>Lab ID: QC973533</b>	<b>Batch: 284171</b>
<b>Matrix (Source ID): Water (458431-006)</b>	<b>Method: EPA 245.1</b>	<b>Prep Method: METHOD</b>

QC973533 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Mercury	2.204	ND	5.000	ug/L	44%	*	75-125	1

<b>Type: Matrix Spike Duplicate</b>	<b>Lab ID: QC973534</b>	<b>Batch: 284171</b>
<b>Matrix (Source ID): Water (458431-006)</b>	<b>Method: EPA 245.1</b>	<b>Prep Method: METHOD</b>

QC973534 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	Lim	DF
Mercury	2.147	ND	5.000	ug/L	43%	*	75-125	3	20	1

\* Value is outside QC limits

ND Not Detected



**ENTHALPY**  
ANALYTICAL

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

enthalpy.com

Lab Job Number: 458411  
Report Level: II  
Report Date: 03/02/2022

**Analytical Report** *prepared for:*

Imedia 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](mailto: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



## Sample Summary

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

Lab Job #: 458411  
Project No: PERMIT #22453\_WW  
Location: WW  
Date Received: 02/16/22

---

Sample ID	Lab ID	Collected	Matrix
EFFLUENT-GRAB_02-16-22	458411-001	02/16/22 09:05	Water
EFFLUENT-COMP_02-16-22	458411-002	02/16/22 09:50	Water

## Case Narrative

---

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

Lab Job Number: 458411  
Project No: PERMIT #22453\_WW  
Location: WW  
Date Received: 02/16/22

---

This data package contains sample and QC results for two water samples, requested for the above referenced project on 02/16/22. The samples were received cold and intact.

**Metals (EPA 200.7 and EPA 245.1):**

Low recoveries were observed for mercury in the MS/MSD for batch 284171; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

**CHAIN OF CUSTODY RECORD**  
 931 W. Barkley, Orange, CA 92668  
 Phone: (714) 771-6900 Fax: (714) 771-9933  
 Billing: Enthality Analytical  
 c/o Montrose Environmental Group Inc.  
 P.O. Box 741137, Los Angeles, CA 90074-1137

**ENTHALPY ANALYTICAL**  
 www.enthalpy.com

Lab Number: **458411**  
 Client ID: **15881**  
 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@anexcos.com**

**PROJECT INFORMATION**

Name: **WW**  
 Number: **Permit #22453**  
 Address: **15306 Norwalk Blvd**  
**Nonwalk, CA 90650**

**CUSTOMER INFORMATION**

Address: **1962 Freeman Ave**  
**Signal Hill, CA 90755**

Phone: **562-597-1055** Fax:

Global ID:  
 P.O. #:  
 Sampled By:

Sample ID	Date	Time	Matrix	Container	Pres.
1 Effluent-Grab_02-16-22	2-16-22	0905	W	*	*
2 Effluent-Comp_02-16-22	"	0950	W	*	*
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:			

Analysis	Received By:	Received By:	Received By:	Received By:
EPA 245.1-Mercury (Hg)				
EPA 200.7-Total As, Cd, Cr, Cu, Pb, Ni, Ag, Zn				
EPA 200.7-Total As, Cd, Cr, Cu, Pb, Ni, Ag, Zn				
625 SVOCs				
624-VOCs (TEX plus m,p,xlenes & Oxygenates)				
4500HB pH Field				
4500-S-D Soluble Sulfide				
5220-D COD				
2540D TSS				
8015 TPHG (GRO)				
8015 TPHD (DRO)				

**ENTHALPY ANALYTICAL**

Test Instruction & Comments

Enthalpy Quote No.: APEX\_012120

\*TPHD - 1L amber, unpreserved  
 \*TPHG - 3x 40ml VOA vials w/HCl  
 \*TSS - 1L poly, unpreserved  
 \*COD - 500ml poly w/H2SO4  
 \*Soluble Sulfide - 1x 500ml poly w/ALCL+NAOH (bottle A) + 1x 500ml poly w/ZNAC+NAOH (bottle B).  
 After precipitation in bottle A, clear filtrate only needs to be poured into bottle B.  
 \*pH - 250ml poly, unpreserved  
 \*VOCs - 3x 40ml VOA vials w/HCl  
 -Please see attached list of additional VOC analytes requested.  
 \*SVOCs - 1L amber, unpreserved  
 Metals (Total As, Cd, Cr, Cu, Pb, Ni, Ag, Zn) - 250ml poly w/HNO3  
 \*Mercury (Hg) - Included with 'Metals'; not a separate container



# ENTHALPY ANALYTICAL

## SAMPLE ACCEPTANCE CHECKLIST

**Section 1**  
 Client: APEX Project: WW PERMIT # 22453  
 Date Received: 2/16/22 Sampler'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: 9.1 #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: 5.0 #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  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**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: 2/16/22

## Analysis Results for 458411

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

Lab Job #: 458411  
 Project No: PERMIT #22453\_WW  
 Location: WW  
 Date Received: 02/16/22

<b>Sample ID:</b> EFFLUENT-GRAB_02-16-22	<b>Lab ID:</b> 458411-001 <b>Matrix:</b> Water	<b>Collected:</b> 02/16/22 09:05
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458411-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 200.7 Prep Method: EPA 200.7									
Cadmium	ND		mg/L	0.0050	1	284002	02/17/22	02/21/22	KLN
Chromium	ND		mg/L	0.010	1	284002	02/17/22	02/21/22	KLN
Copper	ND		mg/L	0.010	1	284002	02/17/22	02/21/22	KLN
Lead	ND		mg/L	0.010	1	284002	02/17/22	02/21/22	KLN
Nickel	ND		mg/L	0.010	1	284002	02/17/22	02/21/22	KLN
Silver	ND		mg/L	0.0050	1	284002	02/17/22	02/21/22	KLN
Zinc	ND		mg/L	0.050	1	284002	02/17/22	02/21/22	KLN
Arsenic	<b>0.012</b>		mg/L	0.010	1	284002	02/17/22	02/21/22	KLN
Method: EPA 245.1 Prep Method: METHOD									
Mercury	ND		ug/L	0.40	1	284171	02/21/22	02/21/22	KLN
Method: EPA 624.1 Prep Method: EPA 624.1									
MTBE	ND		ug/L	5.0	1	283950	02/17/22	02/17/22	TCN
Isopropyl Ether (DIPE)	ND		ug/L	5.0	1	283950	02/17/22	02/17/22	TCN
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	1	283950	02/17/22	02/17/22	TCN
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	1	283950	02/17/22	02/17/22	TCN
tert-Butyl Alcohol (TBA)	ND		ug/L	10	1	283950	02/17/22	02/17/22	TCN
m,p-Xylenes	ND		ug/L	10	1	283950	02/17/22	02/17/22	TCN
o-Xylene	ND		ug/L	5.0	1	283950	02/17/22	02/17/22	TCN
Chloromethane	ND		ug/L	5.0	1	283950	02/17/22	02/17/22	TCN
Vinyl Chloride	ND		ug/L	5.0	1	283950	02/17/22	02/17/22	TCN
Bromomethane	ND		ug/L	5.0	1	283950	02/17/22	02/17/22	TCN
Chloroethane	ND		ug/L	5.0	1	283950	02/17/22	02/17/22	TCN
2-Chloroethylvinylether	ND		ug/L	5.0	1	283950	02/17/22	02/17/22	TCN
1,1-Dichloroethene	ND		ug/L	5.0	1	283950	02/17/22	02/17/22	TCN
Methylene Chloride	ND		ug/L	10	1	283950	02/17/22	02/17/22	TCN
trans-1,2-Dichloroethene	ND		ug/L	5.0	1	283950	02/17/22	02/17/22	TCN
1,1-Dichloroethane	ND		ug/L	5.0	1	283950	02/17/22	02/17/22	TCN
Chloroform	ND		ug/L	5.0	1	283950	02/17/22	02/17/22	TCN
1,1,1-Trichloroethane	ND		ug/L	5.0	1	283950	02/17/22	02/17/22	TCN
Carbon Tetrachloride	ND		ug/L	5.0	1	283950	02/17/22	02/17/22	TCN
1,2-Dichloroethane	ND		ug/L	5.0	1	283950	02/17/22	02/17/22	TCN
Benzene	ND		ug/L	5.0	1	283950	02/17/22	02/17/22	TCN
Trichloroethene	ND		ug/L	5.0	1	283950	02/17/22	02/17/22	TCN

## Analysis Results for 458411

458411-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,2-Dichloropropane	ND		ug/L	5.0	1	283950	02/17/22	02/17/22	TCN
Bromodichloromethane	ND		ug/L	5.0	1	283950	02/17/22	02/17/22	TCN
cis-1,3-Dichloropropene	ND		ug/L	5.0	1	283950	02/17/22	02/17/22	TCN
Toluene	ND		ug/L	5.0	1	283950	02/17/22	02/17/22	TCN
trans-1,3-Dichloropropene	ND		ug/L	5.0	1	283950	02/17/22	02/17/22	TCN
1,1,2-Trichloroethane	ND		ug/L	5.0	1	283950	02/17/22	02/17/22	TCN
Tetrachloroethene	ND		ug/L	5.0	1	283950	02/17/22	02/17/22	TCN
Dibromochloromethane	ND		ug/L	5.0	1	283950	02/17/22	02/17/22	TCN
Chlorobenzene	ND		ug/L	5.0	1	283950	02/17/22	02/17/22	TCN
Ethylbenzene	ND		ug/L	5.0	1	283950	02/17/22	02/17/22	TCN
Bromoform	ND		ug/L	5.0	1	283950	02/17/22	02/17/22	TCN
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	1	283950	02/17/22	02/17/22	TCN
Xylene (total)	ND		ug/L	5.0	1	283950	02/17/22	02/17/22	TCN

Surrogates	Limits								
Dibromofluoromethane	97%		%REC	70-140	1	283950	02/17/22	02/17/22	TCN
1,2-Dichloroethane-d4	105%		%REC	70-140	1	283950	02/17/22	02/17/22	TCN
Toluene-d8	105%		%REC	70-140	1	283950	02/17/22	02/17/22	TCN
Bromofluorobenzene	110%		%REC	70-140	1	283950	02/17/22	02/17/22	TCN

Method: EPA 625.1

Prep Method: EPA 3510C

Benzoic acid	ND		ug/L	50	1	284038	02/17/22	02/18/22	HQN
Benzidine	ND		ug/L	50	1	284038	02/17/22	02/18/22	HQN
Benzyl alcohol	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
4-Chloroaniline	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
Dibenzofuran	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
2-Methylphenol	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
2-Methylnaphthalene	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
2-Nitroaniline	ND		ug/L	50	1	284038	02/17/22	02/18/22	HQN
3-Nitroaniline	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
4-Nitroaniline	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
2,4,5-Trichlorophenol	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
N-Nitrosodimethylamine	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
Phenol	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
bis(2-Chloroethyl)ether	ND		ug/L	25	1	284038	02/17/22	02/18/22	HQN
2-Chlorophenol	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
1,3-Dichlorobenzene	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
1,4-Dichlorobenzene	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
1,2-Dichlorobenzene	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
bis(2-Chloroisopropyl) ether	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
N-Nitroso-di-n-propylamine	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
Hexachloroethane	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
Nitrobenzene	ND		ug/L	25	1	284038	02/17/22	02/18/22	HQN
Isophorone	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
2-Nitrophenol	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
2,4-Dimethylphenol	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
bis(2-Chloroethoxy)methane	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN

## Analysis Results for 458411

458411-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
2,4-Dichlorophenol	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
1,2,4-Trichlorobenzene	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
Naphthalene	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
Hexachlorobutadiene	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
4-Chloro-3-methylphenol	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
Hexachlorocyclopentadiene	ND		ug/L	25	1	284038	02/17/22	02/18/22	HQN
2,4,6-Trichlorophenol	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
2-Chloronaphthalene	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
Dimethylphthalate	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
Acenaphthylene	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
2,6-Dinitrotoluene	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
Acenaphthene	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
2,4-Dinitrophenol	ND		ug/L	50	1	284038	02/17/22	02/18/22	HQN
4-Nitrophenol	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
2,4-Dinitrotoluene	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
Diethylphthalate	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
Fluorene	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
4-Chlorophenyl-phenylether	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
4,6-Dinitro-2-methylphenol	ND		ug/L	50	1	284038	02/17/22	02/18/22	HQN
N-Nitrosodiphenylamine	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
1,2-diphenylhydrazine (as azobenzene)	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
4-Bromophenyl-phenylether	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
Hexachlorobenzene	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
Pentachlorophenol	ND		ug/L	25	1	284038	02/17/22	02/18/22	HQN
Phenanthrene	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
Anthracene	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
Di-n-butylphthalate	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
Fluoranthene	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
Pyrene	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
Butylbenzylphthalate	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
3,3'-Dichlorobenzidine	ND		ug/L	25	1	284038	02/17/22	02/18/22	HQN
Benzo(a)anthracene	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
Chrysene	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
bis(2-Ethylhexyl)phthalate	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
Di-n-octylphthalate	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
Benzo(b)fluoranthene	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
Benzo(k)fluoranthene	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
Benzo(a)pyrene	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
Indeno(1,2,3-cd)pyrene	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
Dibenz(a,h)anthracene	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
Benzo(g,h,i)perylene	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
3-,4-Methylphenol	ND		ug/L	10	1	284038	02/17/22	02/18/22	HQN
<b>Surrogates</b>				<b>Limits</b>					
2-Fluorophenol	35%		%REC	10-140	1	284038	02/17/22	02/18/22	HQN
Phenol-d6	25%		%REC	10-140	1	284038	02/17/22	02/18/22	HQN
2,4,6-Tribromophenol	72%		%REC	12-140	1	284038	02/17/22	02/18/22	HQN

### Analysis Results for 458411

458411-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Nitrobenzene-d5	56%		%REC	10-140	1	284038	02/17/22	02/18/22	HQN
2-Fluorobiphenyl	58%		%REC	11-140	1	284038	02/17/22	02/18/22	HQN
Terphenyl-d14	91%		%REC	20-140	1	284038	02/17/22	02/18/22	HQN

Method: EPA 8015B  
Prep Method: EPA 5030B

TPH Gasoline	ND		ug/L	50	1	284017	02/22/22	02/22/22	EMW
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**Surrogates** **Limits**

Bromofluorobenzene (FID)	71%		%REC	60-140	1	284017	02/22/22	02/22/22	EMW
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Method: EPA 8015B  
Prep Method: EPA 3510C

Diesel C10-C28	ND		mg/L	0.094	0.94	283974	02/17/22	02/21/22	MES
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**Surrogates** **Limits**

n-Triacontane	74%		%REC	35-130	0.94	283974	02/17/22	02/21/22	MES
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Method: SM 4500-H+ B

Field pH	<b>6.9</b>		SU		1	284687	02/16/22 09:05	02/16/22 09:05	DMG
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Method: SM 4500-S2-D  
Prep Method: METHOD

Dissolved Sulfide	ND		mg/L	0.10	1	284401	02/18/22 09:00	02/18/22 09:00	ATP
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**Sample ID:** EFFLUENT-COMP\_02-16-22      **Lab ID:** 458411-002      **Collected:** 02/16/22 09:50  
**Matrix:** Water

458411-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM2540D Prep Method: METHOD									
Total Suspended Solids	<b>2.6</b>		mg/L	0.6	1.1	284253	02/18/22	02/18/22	ATP

Method: SM5220D  
Prep Method: METHOD

Chemical Oxygen Demand	ND		mg/L	4.0	1	284384	02/24/22	02/24/22	ATP
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ND Not Detected



## Batch QC

<b>Type: Blank</b>	<b>Lab ID: QC972807</b>	<b>Batch: 283950</b>
<b>Matrix: Water</b>	<b>Method: EPA 624.1</b>	<b>Prep Method: EPA 624.1</b>

QC972807 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
MTBE	ND		ug/L	5.0	02/16/22	02/16/22
Isopropyl Ether (DIPE)	ND		ug/L	5.0	02/16/22	02/16/22
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	02/16/22	02/16/22
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	02/16/22	02/16/22
tert-Butyl Alcohol (TBA)	ND		ug/L	10	02/16/22	02/16/22
m,p-Xylenes	ND		ug/L	10	02/16/22	02/16/22
o-Xylene	ND		ug/L	5.0	02/16/22	02/16/22
Chloromethane	ND		ug/L	5.0	02/16/22	02/16/22
Vinyl Chloride	ND		ug/L	5.0	02/16/22	02/16/22
Bromomethane	ND		ug/L	5.0	02/16/22	02/16/22
Chloroethane	ND		ug/L	5.0	02/16/22	02/16/22
2-Chloroethylvinylether	ND		ug/L	5.0	02/16/22	02/16/22
1,1-Dichloroethene	ND		ug/L	5.0	02/16/22	02/16/22
Methylene Chloride	ND		ug/L	10	02/16/22	02/16/22
trans-1,2-Dichloroethene	ND		ug/L	5.0	02/16/22	02/16/22
1,1-Dichloroethane	ND		ug/L	5.0	02/16/22	02/16/22
Chloroform	ND		ug/L	5.0	02/16/22	02/16/22
1,1,1-Trichloroethane	ND		ug/L	5.0	02/16/22	02/16/22
Carbon Tetrachloride	ND		ug/L	5.0	02/16/22	02/16/22
1,2-Dichloroethane	ND		ug/L	5.0	02/16/22	02/16/22
Benzene	ND		ug/L	5.0	02/16/22	02/16/22
Trichloroethene	ND		ug/L	5.0	02/16/22	02/16/22
1,2-Dichloropropane	ND		ug/L	5.0	02/16/22	02/16/22
Bromodichloromethane	ND		ug/L	5.0	02/16/22	02/16/22
cis-1,3-Dichloropropene	ND		ug/L	5.0	02/16/22	02/16/22
Toluene	ND		ug/L	5.0	02/16/22	02/16/22
trans-1,3-Dichloropropene	ND		ug/L	5.0	02/16/22	02/16/22
1,1,2-Trichloroethane	ND		ug/L	5.0	02/16/22	02/16/22
Tetrachloroethene	ND		ug/L	5.0	02/16/22	02/16/22
Dibromochloromethane	ND		ug/L	5.0	02/16/22	02/16/22
Chlorobenzene	ND		ug/L	5.0	02/16/22	02/16/22
Ethylbenzene	ND		ug/L	5.0	02/16/22	02/16/22
Bromoform	ND		ug/L	5.0	02/16/22	02/16/22
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	02/16/22	02/16/22
Xylene (total)	ND		ug/L	5.0	02/16/22	02/16/22
<b>Surrogates</b>				<b>Limits</b>		
Dibromofluoromethane	100%		%REC	70-140	02/16/22	02/16/22
1,2-Dichloroethane-d4	108%		%REC	70-140	02/16/22	02/16/22
Toluene-d8	102%		%REC	70-140	02/16/22	02/16/22
Bromofluorobenzene	110%		%REC	70-140	02/16/22	02/16/22

## Batch QC

<b>Type: Lab Control Sample</b>	<b>Lab ID: QC972808</b>	<b>Batch: 283950</b>
<b>Matrix: Water</b>	<b>Method: EPA 624.1</b>	<b>Prep Method: EPA 624.1</b>

QC972808 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
MTBE	48.84	50.00	ug/L	98%		70-130
Isopropyl Ether (DIPE)	60.03	50.00	ug/L	120%		70-130
Ethyl tert-Butyl Ether (ETBE)	59.59	50.00	ug/L	119%		70-130
Methyl tert-Amyl Ether (TAME)	54.20	50.00	ug/L	108%		70-130
tert-Butyl Alcohol (TBA)	268.8	250.0	ug/L	108%		51-130
m,p-Xylenes	111.4	100.0	ug/L	111%		70-130
o-Xylene	56.91	50.00	ug/L	114%		70-130
Chloromethane	59.97	50.00	ug/L	120%		65-130
Vinyl Chloride	45.48	50.00	ug/L	91%		70-130
Bromomethane	42.23	50.00	ug/L	84%		63-130
Chloroethane	47.21	50.00	ug/L	94%		61-130
1,1-Dichloroethene	50.29	50.00	ug/L	101%		70-135
Methylene Chloride	39.31	50.00	ug/L	79%		69-130
trans-1,2-Dichloroethene	51.23	50.00	ug/L	102%		70-130
1,1-Dichloroethane	56.60	50.00	ug/L	113%		70-130
Chloroform	52.20	50.00	ug/L	104%		70-130
1,1,1-Trichloroethane	53.01	50.00	ug/L	106%		70-130
Carbon Tetrachloride	53.63	50.00	ug/L	107%		70-130
1,2-Dichloroethane	54.69	50.00	ug/L	109%		70-130
Benzene	52.30	50.00	ug/L	105%		70-130
Trichloroethene	53.23	50.00	ug/L	106%		70-130
1,2-Dichloropropane	57.76	50.00	ug/L	116%		70-130
Bromodichloromethane	55.93	50.00	ug/L	112%		70-130
cis-1,3-Dichloropropene	57.44	50.00	ug/L	115%		70-130
Toluene	52.35	50.00	ug/L	105%		70-130
trans-1,3-Dichloropropene	58.87	50.00	ug/L	118%		70-130
1,1,2-Trichloroethane	53.65	50.00	ug/L	107%		70-130
Tetrachloroethene	54.69	50.00	ug/L	109%		63-130
Dibromochloromethane	55.03	50.00	ug/L	110%		70-130
Chlorobenzene	53.21	50.00	ug/L	106%		70-130
Ethylbenzene	55.48	50.00	ug/L	111%		70-130
Bromoform	58.13	50.00	ug/L	116%		70-130
1,1,2,2-Tetrachloroethane	55.33	50.00	ug/L	111%		70-130
<b>Surrogates</b>						
Dibromofluoromethane	48.54	50.00	ug/L	97%		70-140
1,2-Dichloroethane-d4	51.30	50.00	ug/L	103%		70-140
Toluene-d8	50.00	50.00	ug/L	100%		70-140
Bromofluorobenzene	52.48	50.00	ug/L	105%		70-140

## Batch QC

<b>Type: Lab Control Sample Duplicate</b>	<b>Lab ID: QC972809</b>	<b>Batch: 283950</b>
<b>Matrix: Water</b>	<b>Method: EPA 624.1</b>	<b>Prep Method: EPA 624.1</b>

QC972809 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
MTBE	46.84	50.00	ug/L	94%		70-130	4	30
Isopropyl Ether (DIPE)	59.69	50.00	ug/L	119%		70-130	1	30
Ethyl tert-Butyl Ether (ETBE)	59.28	50.00	ug/L	119%		70-130	1	30
Methyl tert-Amyl Ether (TAME)	53.46	50.00	ug/L	107%		70-130	1	30
tert-Butyl Alcohol (TBA)	239.2	250.0	ug/L	96%		51-130	12	30
m,p-Xylenes	111.6	100.0	ug/L	112%		70-130	0	30
o-Xylene	56.83	50.00	ug/L	114%		70-130	0	30
Chloromethane	53.03	50.00	ug/L	106%		65-130	12	30
Vinyl Chloride	45.40	50.00	ug/L	91%		70-130	0	30
Bromomethane	41.15	50.00	ug/L	82%		63-130	3	30
Chloroethane	47.74	50.00	ug/L	95%		61-130	1	30
1,1-Dichloroethene	50.75	50.00	ug/L	101%		70-135	1	30
Methylene Chloride	43.68	50.00	ug/L	87%		69-130	11	30
trans-1,2-Dichloroethene	51.29	50.00	ug/L	103%		70-130	0	30
1,1-Dichloroethane	56.18	50.00	ug/L	112%		70-130	1	30
Chloroform	51.54	50.00	ug/L	103%		70-130	1	30
1,1,1-Trichloroethane	54.46	50.00	ug/L	109%		70-130	3	30
Carbon Tetrachloride	54.87	50.00	ug/L	110%		70-130	2	30
1,2-Dichloroethane	52.52	50.00	ug/L	105%		70-130	4	30
Benzene	52.45	50.00	ug/L	105%		70-130	0	30
Trichloroethene	53.33	50.00	ug/L	107%		70-130	0	30
1,2-Dichloropropane	56.56	50.00	ug/L	113%		70-130	2	30
Bromodichloromethane	54.94	50.00	ug/L	110%		70-130	2	30
cis-1,3-Dichloropropene	56.65	50.00	ug/L	113%		70-130	1	30
Toluene	52.36	50.00	ug/L	105%		70-130	0	30
trans-1,3-Dichloropropene	57.89	50.00	ug/L	116%		70-130	2	30
1,1,2-Trichloroethane	52.41	50.00	ug/L	105%		70-130	2	30
Tetrachloroethene	55.32	50.00	ug/L	111%		63-130	1	30
Dibromochloromethane	52.82	50.00	ug/L	106%		70-130	4	30
Chlorobenzene	52.92	50.00	ug/L	106%		70-130	1	30
Ethylbenzene	55.78	50.00	ug/L	112%		70-130	1	30
Bromoform	54.91	50.00	ug/L	110%		70-130	6	30
1,1,2,2-Tetrachloroethane	51.73	50.00	ug/L	103%		70-130	7	30
<b>Surrogates</b>								
Dibromofluoromethane	49.99	50.00	ug/L	100%		70-140		
1,2-Dichloroethane-d4	51.09	50.00	ug/L	102%		70-140		
Toluene-d8	50.76	50.00	ug/L	102%		70-140		
Bromofluorobenzene	53.07	50.00	ug/L	106%		70-140		

## Batch QC

<b>Type: Lab Control Sample</b>	<b>Lab ID: QC975066</b>	<b>Batch: 283950</b>
<b>Matrix: Water</b>	<b>Method: EPA 624.1</b>	<b>Prep Method: EPA 624.1</b>

QC975066 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
2-Chloroethylvinylether	47.86	50.00	ug/L	96%		10-130

<b>Type: Blank</b>	<b>Lab ID: QC972897</b>	<b>Batch: 283974</b>
<b>Matrix: Water</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 3510C</b>

QC972897 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Diesel C10-C28	ND		mg/L	0.10	02/17/22	02/21/22
<b>Surrogates</b>				<b>Limits</b>		
n-Triacontane	89%		%REC	35-130	02/17/22	02/21/22

<b>Type: Lab Control Sample</b>	<b>Lab ID: QC972898</b>	<b>Batch: 283974</b>
<b>Matrix: Water</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 3510C</b>

QC972898 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Diesel C10-C28	0.6389	1.000	mg/L	64%		42-120
<b>Surrogates</b>						
n-Triacontane	0.01596	0.02000	mg/L	80%		35-130

<b>Type: Lab Control Sample Duplicate</b>	<b>Lab ID: QC972899</b>	<b>Batch: 283974</b>
<b>Matrix: Water</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 3510C</b>

QC972899 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Diesel C10-C28	0.5784	1.000	mg/L	58%		42-120	10	36
<b>Surrogates</b>								
n-Triacontane	0.01590	0.02000	mg/L	80%		35-130		

<b>Type: Blank</b>	<b>Lab ID: QC972989</b>	<b>Batch: 284002</b>
<b>Matrix: Water</b>	<b>Method: EPA 200.7</b>	<b>Prep Method: EPA 200.7</b>

QC972989 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Cadmium	ND		mg/L	0.0050	02/17/22	02/21/22
Chromium	ND		mg/L	0.010	02/17/22	02/21/22
Copper	ND		mg/L	0.010	02/17/22	02/21/22
Lead	ND		mg/L	0.010	02/17/22	02/21/22
Nickel	ND		mg/L	0.010	02/17/22	02/21/22
Silver	ND		mg/L	0.0050	02/17/22	02/21/22
Zinc	ND		mg/L	0.050	02/17/22	02/21/22
Arsenic	ND		mg/L	0.010	02/17/22	02/21/22

## Batch QC

<b>Type: Lab Control Sample</b>	<b>Lab ID: QC972990</b>	<b>Batch: 284002</b>
<b>Matrix: Water</b>	<b>Method: EPA 200.7</b>	<b>Prep Method: EPA 200.7</b>

QC972990 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Cadmium	0.5284	0.5000	mg/L	106%		85-115
Chromium	0.5452	0.5000	mg/L	109%		85-115
Copper	0.5129	0.5000	mg/L	103%		85-115
Lead	0.5597	0.5000	mg/L	112%		85-115
Nickel	0.5597	0.5000	mg/L	112%		85-115
Silver	0.2425	0.2500	mg/L	97%		85-115
Zinc	0.5203	0.5000	mg/L	104%		85-115
Arsenic	0.5556	0.5000	mg/L	111%		85-115

<b>Type: Matrix Spike</b>	<b>Lab ID: QC972991</b>	<b>Batch: 284002</b>
<b>Matrix (Source ID): Water (458369-001)</b>	<b>Method: EPA 200.7</b>	<b>Prep Method: EPA 200.7</b>

QC972991 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Cadmium	0.5801	ND	0.5000	mg/L	116%		75-125	1
Chromium	0.5996	ND	0.5000	mg/L	120%		75-125	1
Copper	0.5744	ND	0.5000	mg/L	115%		75-125	1
Lead	0.6158	0.001597	0.5000	mg/L	123%		75-125	1
Nickel	0.6109	ND	0.5000	mg/L	122%		75-125	1
Silver	0.2715	ND	0.2500	mg/L	109%		75-125	1
Zinc	0.5627	0.003291	0.5000	mg/L	112%		75-125	1
Arsenic	0.6003	ND	0.5000	mg/L	120%		75-125	1

<b>Type: Matrix Spike Duplicate</b>	<b>Lab ID: QC972992</b>	<b>Batch: 284002</b>
<b>Matrix (Source ID): Water (458369-001)</b>	<b>Method: EPA 200.7</b>	<b>Prep Method: EPA 200.7</b>

QC972992 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Cadmium	0.5833	ND	0.5000	mg/L	117%		75-125	1	20	1
Chromium	0.6065	ND	0.5000	mg/L	121%		75-125	1	20	1
Copper	0.5733	ND	0.5000	mg/L	115%		75-125	0	20	1
Lead	0.6148	0.001597	0.5000	mg/L	123%		75-125	0	20	1
Nickel	0.6172	ND	0.5000	mg/L	123%		75-125	1	20	1
Silver	0.2717	ND	0.2500	mg/L	109%		75-125	0	20	1
Zinc	0.5664	0.003291	0.5000	mg/L	113%		75-125	1	20	1
Arsenic	0.6047	ND	0.5000	mg/L	121%		75-125	1	20	1

## Batch QC

<b>Type: Lab Control Sample</b>	<b>Lab ID: QC973054</b>	<b>Batch: 284017</b>
<b>Matrix: Water</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 5030B</b>

QC973054 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
TPH Gasoline	563.9	500.0	ug/L	113%		70-130
<b>Surrogates</b>						
Bromofluorobenzene (FID)	189.3	200.0	ug/L	95%		60-140

<b>Type: Matrix Spike</b>	<b>Lab ID: QC973055</b>	<b>Batch: 284017</b>
<b>Matrix (Source ID): Water (458425-001)</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 5030B</b>

QC973055 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
TPH Gasoline	522.0	ND	500.0	ug/L	104%		70-130	1
<b>Surrogates</b>								
Bromofluorobenzene (FID)	205.5		200.0	ug/L	103%		60-140	1

<b>Type: Matrix Spike Duplicate</b>	<b>Lab ID: QC973056</b>	<b>Batch: 284017</b>
<b>Matrix (Source ID): Water (458425-001)</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 5030B</b>

QC973056 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
TPH Gasoline	508.2	ND	500.0	ug/L	102%		70-130	3	30	1
<b>Surrogates</b>										
Bromofluorobenzene (FID)	206.1		200.0	ug/L	103%		60-140			1

<b>Type: Blank</b>	<b>Lab ID: QC973057</b>	<b>Batch: 284017</b>
<b>Matrix: Water</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 5030B</b>

QC973057 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
TPH Gasoline	ND		ug/L	50	02/22/22	02/22/22
<b>Surrogates</b>						
Bromofluorobenzene (FID)	87%		%REC	60-140	02/22/22	02/22/22

## Batch QC

<b>Type: Blank</b>	<b>Lab ID: QC973105</b>	<b>Batch: 284038</b>
<b>Matrix: Water</b>	<b>Method: EPA 625.1</b>	<b>Prep Method: EPA 3510C</b>

QC973105 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Benzoic acid	ND		ug/L	50	02/17/22	02/18/22
Benzidine	ND		ug/L	50	02/17/22	02/18/22
Benzyl alcohol	ND		ug/L	10	02/17/22	02/18/22
4-Chloroaniline	ND		ug/L	10	02/17/22	02/18/22
Dibenzofuran	ND		ug/L	10	02/17/22	02/18/22
2-Methylphenol	ND		ug/L	10	02/17/22	02/18/22
2-Methylnaphthalene	ND		ug/L	10	02/17/22	02/18/22
2-Nitroaniline	ND		ug/L	50	02/17/22	02/18/22
3-Nitroaniline	ND		ug/L	10	02/17/22	02/18/22
4-Nitroaniline	ND		ug/L	10	02/17/22	02/18/22
2,4,5-Trichlorophenol	ND		ug/L	10	02/17/22	02/18/22
N-Nitrosodimethylamine	ND		ug/L	10	02/17/22	02/18/22
Phenol	ND		ug/L	10	02/17/22	02/18/22
bis(2-Chloroethyl)ether	ND		ug/L	25	02/17/22	02/18/22
2-Chlorophenol	ND		ug/L	10	02/17/22	02/18/22
1,3-Dichlorobenzene	ND		ug/L	10	02/17/22	02/18/22
1,4-Dichlorobenzene	ND		ug/L	10	02/17/22	02/18/22
1,2-Dichlorobenzene	ND		ug/L	10	02/17/22	02/18/22
bis(2-Chloroisopropyl) ether	ND		ug/L	10	02/17/22	02/18/22
N-Nitroso-di-n-propylamine	ND		ug/L	10	02/17/22	02/18/22
Hexachloroethane	ND		ug/L	10	02/17/22	02/18/22
Nitrobenzene	ND		ug/L	25	02/17/22	02/18/22
Isophorone	ND		ug/L	10	02/17/22	02/18/22
2-Nitrophenol	ND		ug/L	10	02/17/22	02/18/22
2,4-Dimethylphenol	ND		ug/L	10	02/17/22	02/18/22
bis(2-Chloroethoxy)methane	ND		ug/L	10	02/17/22	02/18/22
2,4-Dichlorophenol	ND		ug/L	10	02/17/22	02/18/22
1,2,4-Trichlorobenzene	ND		ug/L	10	02/17/22	02/18/22
Naphthalene	ND		ug/L	10	02/17/22	02/18/22
Hexachlorobutadiene	ND		ug/L	10	02/17/22	02/18/22
4-Chloro-3-methylphenol	ND		ug/L	10	02/17/22	02/18/22
Hexachlorocyclopentadiene	ND		ug/L	25	02/17/22	02/18/22
2,4,6-Trichlorophenol	ND		ug/L	10	02/17/22	02/18/22
2-Chloronaphthalene	ND		ug/L	10	02/17/22	02/18/22
Dimethylphthalate	ND		ug/L	10	02/17/22	02/18/22
Acenaphthylene	ND		ug/L	10	02/17/22	02/18/22
2,6-Dinitrotoluene	ND		ug/L	10	02/17/22	02/18/22
Acenaphthene	ND		ug/L	10	02/17/22	02/18/22
2,4-Dinitrophenol	ND		ug/L	50	02/17/22	02/18/22
4-Nitrophenol	ND		ug/L	10	02/17/22	02/18/22
2,4-Dinitrotoluene	ND		ug/L	10	02/17/22	02/18/22
Diethylphthalate	ND		ug/L	10	02/17/22	02/18/22

### Batch QC

QC973105 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Fluorene	ND		ug/L	10	02/17/22	02/18/22
4-Chlorophenyl-phenylether	ND		ug/L	10	02/17/22	02/18/22
4,6-Dinitro-2-methylphenol	ND		ug/L	50	02/17/22	02/18/22
N-Nitrosodiphenylamine	ND		ug/L	10	02/17/22	02/18/22
1,2-diphenylhydrazine (as azobenzene)	ND		ug/L	10	02/17/22	02/18/22
4-Bromophenyl-phenylether	ND		ug/L	10	02/17/22	02/18/22
Hexachlorobenzene	ND		ug/L	10	02/17/22	02/18/22
Pentachlorophenol	ND		ug/L	25	02/17/22	02/18/22
Phenanthrene	ND		ug/L	10	02/17/22	02/18/22
Anthracene	ND		ug/L	10	02/17/22	02/18/22
Di-n-butylphthalate	ND		ug/L	10	02/17/22	02/18/22
Fluoranthene	ND		ug/L	10	02/17/22	02/18/22
Pyrene	ND		ug/L	10	02/17/22	02/18/22
Butylbenzylphthalate	ND		ug/L	10	02/17/22	02/18/22
3,3'-Dichlorobenzidine	ND		ug/L	25	02/17/22	02/18/22
Benzo(a)anthracene	ND		ug/L	10	02/17/22	02/18/22
Chrysene	ND		ug/L	10	02/17/22	02/18/22
bis(2-Ethylhexyl)phthalate	ND		ug/L	10	02/17/22	02/18/22
Di-n-octylphthalate	ND		ug/L	10	02/17/22	02/18/22
Benzo(b)fluoranthene	ND		ug/L	10	02/17/22	02/18/22
Benzo(k)fluoranthene	ND		ug/L	10	02/17/22	02/18/22
Benzo(a)pyrene	ND		ug/L	10	02/17/22	02/18/22
Indeno(1,2,3-cd)pyrene	ND		ug/L	10	02/17/22	02/18/22
Dibenz(a,h)anthracene	ND		ug/L	10	02/17/22	02/18/22
Benzo(g,h,i)perylene	ND		ug/L	10	02/17/22	02/18/22
3-,4-Methylphenol	ND		ug/L	10	02/17/22	02/18/22
<b>Surrogates</b>				<b>Limits</b>		
2-Fluorophenol	40%		%REC	20-140	02/17/22	02/18/22
Phenol-d6	27%		%REC	20-140	02/17/22	02/18/22
2,4,6-Tribromophenol	70%		%REC	20-140	02/17/22	02/18/22
Nitrobenzene-d5	60%		%REC	20-140	02/17/22	02/18/22
2-Fluorobiphenyl	62%		%REC	20-140	02/17/22	02/18/22
Terphenyl-d14	80%		%REC	20-140	02/17/22	02/18/22



## Batch QC

<b>Type: Lab Control Sample</b>	<b>Lab ID: QC973106</b>	<b>Batch: 284038</b>
<b>Matrix: Water</b>	<b>Method: EPA 625.1</b>	<b>Prep Method: EPA 3510C</b>

QC973106 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
2,4,5-Trichlorophenol	66.65	75.00	ug/L	89%		38-120
Phenol	23.65	75.00	ug/L	32%		13-120
2-Chlorophenol	52.81	75.00	ug/L	70%		31-120
1,4-Dichlorobenzene	33.55	75.00	ug/L	45%		24-120
N-Nitroso-di-n-propylamine	56.25	75.00	ug/L	75%		32-120
2,4-Dimethylphenol	58.21	75.00	ug/L	78%		25-120
1,2,4-Trichlorobenzene	36.78	75.00	ug/L	49%		26-120
4-Chloro-3-methylphenol	59.69	75.00	ug/L	80%		39-120
Acenaphthene	52.84	75.00	ug/L	70%		33-120
4-Nitrophenol	25.68	75.00	ug/L	34%		12-120
2,4-Dinitrotoluene	67.98	75.00	ug/L	91%		46-120
Pentachlorophenol	48.46	75.00	ug/L	65%		37-120
Pyrene	60.98	75.00	ug/L	81%		47-120
Chrysene	66.73	75.00	ug/L	89%		48-120
Benzo(b)fluoranthene	69.77	75.00	ug/L	93%		46-120
<b>Surrogates</b>						
2-Fluorophenol	17.97	40.00	ug/L	45%		20-140
Phenol-d6	12.61	40.00	ug/L	32%		20-140
2,4,6-Tribromophenol	36.17	40.00	ug/L	90%		20-140
Nitrobenzene-d5	28.70	40.00	ug/L	72%		20-140
2-Fluorobiphenyl	28.21	40.00	ug/L	71%		20-140
Terphenyl-d14	35.85	40.00	ug/L	90%		20-140

## Batch QC

<b>Type:</b> Lab Control Sample Duplicate	<b>Lab ID:</b> QC973107	<b>Batch:</b> 284038
<b>Matrix:</b> Water	<b>Method:</b> EPA 625.1	<b>Prep Method:</b> EPA 3510C

QC973107 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
2,4,5-Trichlorophenol	67.59	75.00	ug/L	90%		38-120	1	59
Phenol	23.47	75.00	ug/L	31%		13-120	1	62
2-Chlorophenol	51.92	75.00	ug/L	69%		31-120	2	62
1,4-Dichlorobenzene	33.86	75.00	ug/L	45%		24-120	1	64
N-Nitroso-di-n-propylamine	55.26	75.00	ug/L	74%		32-120	2	65
2,4-Dimethylphenol	58.16	75.00	ug/L	78%		25-120	0	64
1,2,4-Trichlorobenzene	38.10	75.00	ug/L	51%		26-120	4	63
4-Chloro-3-methylphenol	61.36	75.00	ug/L	82%		39-120	3	58
Acenaphthene	54.40	75.00	ug/L	73%		33-120	3	52
4-Nitrophenol	28.24	75.00	ug/L	38%		12-120	9	63
2,4-Dinitrotoluene	74.75	75.00	ug/L	100%		46-120	9	41
Pentachlorophenol	52.74	75.00	ug/L	70%		37-120	8	42
Pyrene	66.48	75.00	ug/L	89%		47-120	9	43
Chrysene	71.44	75.00	ug/L	95%		48-120	7	46
Benzo(b)fluoranthene	74.69	75.00	ug/L	100%		46-120	7	47
<b>Surrogates</b>								
2-Fluorophenol	17.67	40.00	ug/L	44%		20-140		
Phenol-d6	12.52	40.00	ug/L	31%		20-140		
2,4,6-Tribromophenol	39.39	40.00	ug/L	98%		20-140		
Nitrobenzene-d5	27.97	40.00	ug/L	70%		20-140		
2-Fluorobiphenyl	28.32	40.00	ug/L	71%		20-140		
Terphenyl-d14	39.50	40.00	ug/L	99%		20-140		

<b>Type:</b> Blank	<b>Lab ID:</b> QC973531	<b>Batch:</b> 284171
<b>Matrix:</b> Water	<b>Method:</b> EPA 245.1	<b>Prep Method:</b> METHOD

QC973531 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Mercury	ND		ug/L	0.40	02/21/22	02/21/22

<b>Type:</b> Lab Control Sample	<b>Lab ID:</b> QC973532	<b>Batch:</b> 284171
<b>Matrix:</b> Water	<b>Method:</b> EPA 245.1	<b>Prep Method:</b> METHOD

QC973532 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Mercury	5.019	5.000	ug/L	100%		85-115

## Batch QC

<b>Type: Matrix Spike</b>	<b>Lab ID: QC973533</b>	<b>Batch: 284171</b>
<b>Matrix (Source ID): Water (458431-006)</b>	<b>Method: EPA 245.1</b>	<b>Prep Method: METHOD</b>

QC973533 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Mercury	2.204	ND	5.000	ug/L	44%	*	75-125	1

<b>Type: Matrix Spike Duplicate</b>	<b>Lab ID: QC973534</b>	<b>Batch: 284171</b>
<b>Matrix (Source ID): Water (458431-006)</b>	<b>Method: EPA 245.1</b>	<b>Prep Method: METHOD</b>

QC973534 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	Lim	DF
Mercury	2.147	ND	5.000	ug/L	43%	*	75-125	3	20	1

<b>Type: Blank</b>	<b>Lab ID: QC973745</b>	<b>Batch: 284253</b>
<b>Matrix: Water</b>	<b>Method: SM2540D</b>	<b>Prep Method: METHOD</b>

QC973745 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Total Suspended Solids	ND		mg/L	0.5	02/18/22	02/18/22

<b>Type: Sample Duplicate</b>	<b>Lab ID: QC973746</b>	<b>Batch: 284253</b>
<b>Matrix (Source ID): Water (458425-001)</b>	<b>Method: SM2540D</b>	<b>Prep Method: METHOD</b>

QC973746 Analyte	Result	Source Sample Result	Units	Qual	RPD	Lim	DF
Total Suspended Solids	240.0	248.0	mg/L		3	5	5

<b>Type: Blank</b>	<b>Lab ID: QC974080</b>	<b>Batch: 284384</b>
<b>Matrix: Water</b>	<b>Method: SM5220D</b>	<b>Prep Method: METHOD</b>

QC974080 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Chemical Oxygen Demand	ND		mg/L	4.0	02/24/22	02/24/22

<b>Type: Lab Control Sample</b>	<b>Lab ID: QC974081</b>	<b>Batch: 284384</b>
<b>Matrix: Water</b>	<b>Method: SM5220D</b>	<b>Prep Method: METHOD</b>

QC974081 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Chemical Oxygen Demand	106.0	100.0	mg/L	106%		80-120

## Batch QC

<b>Type: Matrix Spike</b>	<b>Lab ID: QC974082</b>	<b>Batch: 284384</b>
<b>Matrix (Source ID): Water (458362-001)</b>	<b>Method: SM5220D</b>	<b>Prep Method: METHOD</b>

QC974082 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Chemical Oxygen Demand	108.0	6.000	100.0	mg/L	102%		75-125	2

<b>Type: Matrix Spike Duplicate</b>	<b>Lab ID: QC974083</b>	<b>Batch: 284384</b>
<b>Matrix (Source ID): Water (458362-001)</b>	<b>Method: SM5220D</b>	<b>Prep Method: METHOD</b>

QC974083 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	Lim	DF
Chemical Oxygen Demand	110.0	6.000	100.0	mg/L	104%		75-125	2	20	2

<b>Type: Blank</b>	<b>Lab ID: QC974134</b>	<b>Batch: 284401</b>
<b>Matrix: Water</b>	<b>Method: SM 4500-S2-D</b>	<b>Prep Method: METHOD</b>

QC974134 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Dissolved Sulfide	ND		mg/L	0.10	02/18/22 09:00	02/18/22 09:00

<b>Type: Lab Control Sample</b>	<b>Lab ID: QC974135</b>	<b>Batch: 284401</b>
<b>Matrix: Water</b>	<b>Method: SM 4500-S2-D</b>	<b>Prep Method: METHOD</b>

QC974135 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Dissolved Sulfide	1.000	1.000	mg/L	100%		80-120

<b>Type: Matrix Spike</b>	<b>Lab ID: QC974136</b>	<b>Batch: 284401</b>
<b>Matrix (Source ID): Water (458494-001)</b>	<b>Method: SM 4500-S2-D</b>	<b>Prep Method: METHOD</b>

QC974136 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Dissolved Sulfide	1.000	ND	1.000	mg/L	100%		80-120	1

<b>Type: Matrix Spike Duplicate</b>	<b>Lab ID: QC974137</b>	<b>Batch: 284401</b>
<b>Matrix (Source ID): Water (458494-001)</b>	<b>Method: SM 4500-S2-D</b>	<b>Prep Method: METHOD</b>

QC974137 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	Lim	DF
Dissolved Sulfide	1.000	ND	1.000	mg/L	100%		80-120	0	20	1

\* Value is outside QC limits

ND Not Detected

**Batch QC**



**ENTHALPY**  
ANALYTICAL

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

enthalpy.com

Lab Job Number: 459487  
Report Level: II  
Report Date: 03/23/2022

**Analytical Report** *prepared for:*

Imelda 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](mailto: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

## Sample Summary

---

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

Lab Job #: 459487  
Project No: PERMIT #22453\_WW  
Location: WW  
Date Received: 03/09/22

---

<b>Sample ID</b>	<b>Lab ID</b>	<b>Collected</b>	<b>Matrix</b>
SURGE TANK_03-09-22	459487-001	03/09/22 09:51	Water
EFFLUENT_03-09-22	459487-002	03/09/22 09:23	Water

## Case Narrative

---

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

Lab Job Number: 459487  
Project No: PERMIT #22453\_WW  
Location: WW  
Date Received: 03/09/22

---

This data package contains sample and QC results for two water samples, requested for the above referenced project on 03/09/22. The samples were received cold and intact.

### **TPH-Extractables by GC (EPA 8015B):**

- Diesel C10-C28 was detected above the RL in the method blank for batch 285245.
- No other analytical problems were encountered.



**CHAIN OF CUSTODY RECORD**  
 931 W. Barkley, Orange, CA 92888  
 Phone: (714) 771-6900 Fax: (714) 771-9933  
 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: 15881  
 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  
 imelda.morales@apexcs.com, glenn.androsko@apexcs.com  
 Email: kath.yvan@apexcs.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 90660

**Analysis**

Sample ID	Date	Time	Matrix	Container	Pres.	8015 TPHD (DRO)	8015 TPHG (GRO)	824-VOCs (BTEX & mP xylenes & Oxygenates)	Test Instruction & Comments
1	Surge Tank_03-09-22	3-9-22	W	*	*	X	X	X	Enthalpy Quote No.: APEX 012120
2	Effluent_03-09-22	3-9-22	W	*	*	X	X	X	*TPHD - 1L amber, unpreserved
3									*TPHG - 3x 40ml VOA vials w/HCl
4									*824-VOCs - 3x 40ml VOA vials w/HCl
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: Glenn Androsko  
 Date: 3-9-22 Time: 1550  
 Relinquished By: Glenn Androsko  
 Date: 3/9/22 Time: 1553  
 Relinquished By: Glenn Androsko  
 Date: 3/9/22 Time: 1553

1) Relinquished By: Glenn Androsko  
 2) Received By: Glenn Androsko  
 3) Relinquished By: Glenn Androsko  
 4) Received By: Glenn Androsko

Print Name: Glenn Androsko  
 Date: 3/9/22 Time: 1553  
 Print Name: Glenn Androsko  
 Date: 3/9/22 Time: 1553  
 Print Name: Glenn Androsko  
 Date: 3/9/22 Time: 1553

Authorized By: 13.7/9.9



# ENTHALPY ANALYTICAL

## SAMPLE ACCEPTANCE CHECKLIST

**Section 1**  
 Client: Apex Project: \_\_\_\_\_  
 Date Received: 3/9/22 Sampler'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: 13.7 #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: 9.9 #2: \_\_\_\_\_ #3: \_\_\_\_\_ #4: \_\_\_\_\_

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

**Section 5 Explanations/Comments**  
 \_\_\_\_\_  
 \_\_\_\_\_

**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: [Signature] Date: 3/9/22

## Analysis Results for 459487

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

 Lab Job #: 459487  
 Project No: PERMIT #22453\_WW  
 Location: WW  
 Date Received: 03/09/22

**Sample ID: SURGE TANK\_03-09-22**
**Lab ID: 459487-001**
**Collected: 03/09/22 09:51**
**Matrix: Water**

459487-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 624.1									
Prep Method: EPA 624.1									
MTBE	ND		ug/L	5.0	1	285457	03/13/22	03/13/22	LXR
Isopropyl Ether (DIPE)	ND		ug/L	5.0	1	285457	03/13/22	03/13/22	LXR
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	1	285457	03/13/22	03/13/22	LXR
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	1	285457	03/13/22	03/13/22	LXR
tert-Butyl Alcohol (TBA)	<b>42</b>		ug/L	10	1	285457	03/13/22	03/13/22	LXR
m,p-Xylenes	ND		ug/L	10	1	285457	03/13/22	03/13/22	LXR
o-Xylene	ND		ug/L	5.0	1	285457	03/13/22	03/13/22	LXR
Benzene	ND		ug/L	5.0	1	285457	03/13/22	03/13/22	LXR
Toluene	ND		ug/L	5.0	1	285457	03/13/22	03/13/22	LXR
Ethylbenzene	ND		ug/L	5.0	1	285457	03/13/22	03/13/22	LXR
Xylene (total)	ND		ug/L	5.0	1	285457	03/13/22	03/13/22	LXR
<b>Surrogates</b>			<b>Limits</b>						
Dibromofluoromethane	96%		%REC	70-140	1	285457	03/13/22	03/13/22	LXR
1,2-Dichloroethane-d4	96%		%REC	70-140	1	285457	03/13/22	03/13/22	LXR
Toluene-d8	101%		%REC	70-140	1	285457	03/13/22	03/13/22	LXR
Bromofluorobenzene	101%		%REC	70-140	1	285457	03/13/22	03/13/22	LXR
Method: EPA 8015B									
Prep Method: EPA 5030B									
TPH Gasoline	<b>67</b>		ug/L	50	1	285354	03/14/22	03/14/22	EMW
<b>Surrogates</b>			<b>Limits</b>						
Bromofluorobenzene (FID)	96%		%REC	60-140	1	285354	03/14/22	03/14/22	EMW
Method: EPA 8015B									
Prep Method: EPA 3510C									
Diesel C10-C28	<b>0.46</b>	B	mg/L	0.10	1	285245	03/10/22	03/22/22	TJW
<b>Surrogates</b>			<b>Limits</b>						
n-Triacontane	89%		%REC	35-130	1	285245	03/10/22	03/22/22	TJW

## Analysis Results for 459487

**Sample ID: EFFLUENT\_03-09-22**
**Lab ID: 459487-002**
**Collected: 03/09/22 09:23**
**Matrix: Water**

459487-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 624.1									
Prep Method: EPA 624.1									
MTBE	ND		ug/L	5.0	1	285457	03/13/22	03/13/22	LXR
Isopropyl Ether (DIPE)	ND		ug/L	5.0	1	285457	03/13/22	03/13/22	LXR
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	1	285457	03/13/22	03/13/22	LXR
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	1	285457	03/13/22	03/13/22	LXR
tert-Butyl Alcohol (TBA)	ND		ug/L	10	1	285457	03/13/22	03/13/22	LXR
m,p-Xylenes	ND		ug/L	10	1	285457	03/13/22	03/13/22	LXR
o-Xylene	ND		ug/L	5.0	1	285457	03/13/22	03/13/22	LXR
Benzene	ND		ug/L	5.0	1	285457	03/13/22	03/13/22	LXR
Toluene	ND		ug/L	5.0	1	285457	03/13/22	03/13/22	LXR
Ethylbenzene	ND		ug/L	5.0	1	285457	03/13/22	03/13/22	LXR
Xylene (total)	ND		ug/L	5.0	1	285457	03/13/22	03/13/22	LXR
<b>Surrogates</b>				<b>Limits</b>					
Dibromofluoromethane	97%		%REC	70-140	1	285457	03/13/22	03/13/22	LXR
1,2-Dichloroethane-d4	97%		%REC	70-140	1	285457	03/13/22	03/13/22	LXR
Toluene-d8	101%		%REC	70-140	1	285457	03/13/22	03/13/22	LXR
Bromofluorobenzene	101%		%REC	70-140	1	285457	03/13/22	03/13/22	LXR
Method: EPA 8015B									
Prep Method: EPA 5030B									
TPH Gasoline	ND		ug/L	50	1	285354	03/14/22	03/14/22	EMW
<b>Surrogates</b>				<b>Limits</b>					
Bromofluorobenzene (FID)	97%		%REC	60-140	1	285354	03/14/22	03/14/22	EMW
Method: EPA 8015B									
Prep Method: EPA 3510C									
Diesel C10-C28	ND		mg/L	0.10	1	285245	03/10/22	03/22/22	TJW
<b>Surrogates</b>				<b>Limits</b>					
n-Triacontane	97%		%REC	35-130	1	285245	03/10/22	03/22/22	TJW

B Contamination found in associated Method Blank

ND Not Detected

## Batch QC

<b>Type: Blank</b>	<b>Lab ID: QC977181</b>	<b>Batch: 285457</b>
<b>Matrix: Water</b>	<b>Method: EPA 624.1</b>	<b>Prep Method: EPA 624.1</b>

QC977181 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
MTBE	ND		ug/L	5.0	03/13/22	03/13/22
Isopropyl Ether (DIPE)	ND		ug/L	5.0	03/13/22	03/13/22
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	03/13/22	03/13/22
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	03/13/22	03/13/22
tert-Butyl Alcohol (TBA)	ND		ug/L	10	03/13/22	03/13/22
m,p-Xylenes	ND		ug/L	10	03/13/22	03/13/22
o-Xylene	ND		ug/L	5.0	03/13/22	03/13/22
Benzene	ND		ug/L	5.0	03/13/22	03/13/22
Toluene	ND		ug/L	5.0	03/13/22	03/13/22
Ethylbenzene	ND		ug/L	5.0	03/13/22	03/13/22
Xylene (total)	ND		ug/L	5.0	03/13/22	03/13/22
Surrogates				Limits		
Dibromofluoromethane	95%		%REC	70-140	03/13/22	03/13/22
1,2-Dichloroethane-d4	95%		%REC	70-140	03/13/22	03/13/22
Toluene-d8	101%		%REC	70-140	03/13/22	03/13/22
Bromofluorobenzene	102%		%REC	70-140	03/13/22	03/13/22

<b>Type: Lab Control Sample</b>	<b>Lab ID: QC977182</b>	<b>Batch: 285457</b>
<b>Matrix: Water</b>	<b>Method: EPA 624.1</b>	<b>Prep Method: EPA 624.1</b>

QC977182 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
MTBE	46.20	50.00	ug/L	92%		70-130
Isopropyl Ether (DIPE)	48.55	50.00	ug/L	97%		70-130
Ethyl tert-Butyl Ether (ETBE)	46.75	50.00	ug/L	94%		70-130
Methyl tert-Amyl Ether (TAME)	51.42	50.00	ug/L	103%		70-130
tert-Butyl Alcohol (TBA)	194.2	250.0	ug/L	78%		51-130
m,p-Xylenes	110.0	100.0	ug/L	110%		70-130
o-Xylene	54.28	50.00	ug/L	109%		70-130
Benzene	53.56	50.00	ug/L	107%		70-130
Toluene	53.51	50.00	ug/L	107%		70-130
Ethylbenzene	54.68	50.00	ug/L	109%		70-130
Surrogates						
Dibromofluoromethane	49.42	50.00	ug/L	99%		70-140
1,2-Dichloroethane-d4	46.98	50.00	ug/L	94%		70-140
Toluene-d8	50.62	50.00	ug/L	101%		70-140
Bromofluorobenzene	51.93	50.00	ug/L	104%		70-140

## Batch QC

<b>Type: Lab Control Sample Duplicate</b>	<b>Lab ID: QC977183</b>	<b>Batch: 285457</b>
<b>Matrix: Water</b>	<b>Method: EPA 624.1</b>	<b>Prep Method: EPA 624.1</b>

QC977183 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
MTBE	42.01	50.00	ug/L	84%		70-130	9	30
Isopropyl Ether (DIPE)	42.87	50.00	ug/L	86%		70-130	12	30
Ethyl tert-Butyl Ether (ETBE)	41.60	50.00	ug/L	83%		70-130	12	30
Methyl tert-Amyl Ether (TAME)	46.64	50.00	ug/L	93%		70-130	10	30
tert-Butyl Alcohol (TBA)	199.9	250.0	ug/L	80%		51-130	3	30
m,p-Xylenes	95.65	100.0	ug/L	96%		70-130	14	30
o-Xylene	47.31	50.00	ug/L	95%		70-130	14	30
Benzene	47.26	50.00	ug/L	95%		70-130	12	30
Toluene	46.60	50.00	ug/L	93%		70-130	14	30
Ethylbenzene	47.14	50.00	ug/L	94%		70-130	15	30
<b>Surrogates</b>								
Dibromofluoromethane	49.26	50.00	ug/L	99%		70-140		
1,2-Dichloroethane-d4	46.97	50.00	ug/L	94%		70-140		
Toluene-d8	50.15	50.00	ug/L	100%		70-140		
Bromofluorobenzene	49.98	50.00	ug/L	100%		70-140		

<b>Type: Blank</b>	<b>Lab ID: QC976606</b>	<b>Batch: 285245</b>
<b>Matrix: Water</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 3510C</b>

QC976606 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Diesel C10-C28	0.16		mg/L	0.10	03/09/22	03/10/22
<b>Surrogates</b>				<b>Limits</b>		
n-Triacontane	118%		%REC	35-130	03/09/22	03/10/22

<b>Type: Lab Control Sample</b>	<b>Lab ID: QC976607</b>	<b>Batch: 285245</b>
<b>Matrix: Water</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 3510C</b>

QC976607 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Diesel C10-C28	1.011	1.000	mg/L	101%		42-120
<b>Surrogates</b>						
n-Triacontane	0.02239	0.02000	mg/L	112%		35-130

<b>Type: Lab Control Sample Duplicate</b>	<b>Lab ID: QC976608</b>	<b>Batch: 285245</b>
<b>Matrix: Water</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 3510C</b>

QC976608 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Diesel C10-C28	0.9321	1.000	mg/L	93%		42-120	8	36
<b>Surrogates</b>								
n-Triacontane	0.01821	0.02000	mg/L	91%		35-130		

## Batch QC

<b>Type: Lab Control Sample</b>	<b>Lab ID: QC976856</b>	<b>Batch: 285354</b>
<b>Matrix: Water</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 5030B</b>

QC976856 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
TPH Gasoline	481.8	500.0	ug/L	96%		70-130
<b>Surrogates</b>						
Bromofluorobenzene (FID)	215.0	200.0	ug/L	107%		60-140

<b>Type: Matrix Spike</b>	<b>Lab ID: QC976857</b>	<b>Batch: 285354</b>
<b>Matrix (Source ID): Water (459590-001)</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 5030B</b>

QC976857 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
TPH Gasoline	479.7	ND	500.0	ug/L	96%		70-130	1
<b>Surrogates</b>								
Bromofluorobenzene (FID)	217.5		200.0	ug/L	109%		60-140	1

<b>Type: Matrix Spike Duplicate</b>	<b>Lab ID: QC976858</b>	<b>Batch: 285354</b>
<b>Matrix (Source ID): Water (459590-001)</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 5030B</b>

QC976858 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
TPH Gasoline	477.5	ND	500.0	ug/L	95%		70-130	0	30	1
<b>Surrogates</b>										
Bromofluorobenzene (FID)	189.0		200.0	ug/L	94%		60-140			1

<b>Type: Blank</b>	<b>Lab ID: QC976859</b>	<b>Batch: 285354</b>
<b>Matrix: Water</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 5030B</b>

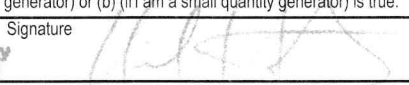
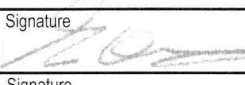
QC976859 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
TPH Gasoline	ND		ug/L	50	03/14/22	03/14/22
<b>Surrogates</b>						
Bromofluorobenzene (FID)	85%		%REC	60-140	03/14/22	03/14/22

ND Not Detected

**APPENDIX B**

**LNAPL HAZARDOUS WASTE MANIFEST**



<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number <b>CA8971524360</b>	2. Page 1 of <b>1</b>	3. Emergency Response Phone <b>(424) 347-3088</b>	4. Manifest Tracking Number <b>016573367 FLE</b>	
5. Generator's Name and Mailing Address <b>Defense Logistics Agency - Energy 1962 Freeman Avenue Signal Hill, CA 90755</b>			Generator's Site Address (if different than mailing address) <b>DFSP Norwalk 15306 Norwalk Blvd. Norwalk, CA 90650</b>			
Generator's Phone: <b>(562) 597-1055</b>			U.S. EPA ID Number <b>CAT080016116</b>			
6. Transporter 1 Company Name <b>NIETO &amp; SONS TRUCKING, INC.</b>			U.S. EPA ID Number			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address <b>World Oil Recycling 2000 N. Alameda St. Compton, CA 90222</b>			U.S. EPA ID Number <b>CAT080013352</b>			
Facility's Phone: <b>(310) 537-7100</b>						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
X	1. <b>UN1993, Flammable Liquid, n.o.s., 3, PGII (contains jet fuel)</b>	001	TT	59	G	133
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information <b>ERG# : 128 / Jet Fuel &amp; Groundwater Apex/ SGI Contact: (714) 608-1089</b>						
<b>WEAR ALL APPROPRIATE PROTECTIVE CLOTHING</b>						
<b>BESI: 335103 337812 PROFILE 489161</b>						
15. <b>GENERATOR'S/OFFEROR'S CERTIFICATION:</b> I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offoror's Printed/Typed Name <b>Neil F. Irish On Behalf of and as an Agent of DLA Energy</b>			Signature 		Month Day Year <b>01 05 22</b>	
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 <b>Richard Duran</b>			Signature 		Month Day Year <b>01 05 22</b>	
Transporter 2 Printed/Typed Name			Signature		Month Day Year	
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
Manifest Reference Number: _____						
18b. Alternate Facility (or Generator)					U.S. EPA ID Number	
Facility's Phone: _____						
18c. Signature of Alternate Facility (or Generator)					Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1.		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			Signature		Month Day Year	

Please print or type.

Form Approved. OMB No. 2050-0039

124-186125-1 C-1 117

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number <b>CA8971524360</b>	2. Page 1 of 1	3. Emergency Response Phone <b>(424) 347-3088</b>	4. Manifest Tracking Number <b>016573367 FLE</b>
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5. Generator's Name and Mailing Address <b>Defense Logistics Agency - Energy 1982 Freeman Avenue Signal Hill, CA 90755</b>	Generator's Site Address (if different than mailing address) <b>DFSP Norwalk 15306 Norwalk Blvd. Norwalk, CA 90650</b>
Generator's Phone: <b>(562) 597-1055</b>	

6. Transporter 1 Company Name <b>NIETO &amp; SONS TRUCKING, INC.</b>	U.S. EPA ID Number <b>CAT080016116</b>
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7. Transporter 2 Company Name	U.S. EPA ID Number
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8. Designated Facility Name and Site Address <b>World Oil Recycling 2000 N. Alameda St. Compton, CA 90222</b>	U.S. EPA ID Number <b>CAT080013352</b>
Facility's Phone: <b>(310) 537-7100</b>	

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. UN1993, Flammable Liquid, n.o.s., 3, PGII (contains jet fuel)	001	TT	59	G	133		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information <b>ERG# 120 / Jet Fuel &amp; Groundwater Apex/ SGI Contact: (714) 608-1089</b>	<b>WEAR ALL APPROPRIATE PROTECTIVE CLOTHING</b>	<b>BESI: 335103-337812</b>
	<b>PROFILE</b>	<b>489161</b>

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/Offeor's Printed/Typed Name <b>Neil F. Irish On Behalf of and as an Agent of DLA Energy</b>	Signature <i>[Signature]</i>	Month Day Year <b>01/05/22</b>
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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	Signature	Month Day Year
Transporter 1 Printed/Typed Name <b>Richard Duran</b>	<i>[Signature]</i>	<b>01/05/22</b>
Transporter 2 Printed/Typed Name	Signature	Month Day Year

18. Discrepancy	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection			
	Manifest Reference Number:			

18b. Alternate Facility (or Generator)	U.S. EPA ID Number
Facility's Phone:	

18c. Signature of Alternate Facility (or Generator)	Month Day Year
---	----------------

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)			
1. <b>H039</b>	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	Signature	Month Day Year
Printed/Typed Name <b>DAVID P SWAY</b>	<i>[Signature]</i>	<b>01/05/22</b>

Please print or type.

Form Approved. OMB No. 2050-0039

P# 486125 1 CI 70 117

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>	1. Generator ID Number <b>CA8971524360</b>	2. Page 1 of <b>1</b>	3. Emergency Response Phone <b>(424) 347-3088</b>	4. Manifest Tracking Number <b>010573367 FLE</b>
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5. Generator's Name and Mailing Address <b>Defense Logistics Agency - Energy 1962 Freeman Avenue Signal Hill, CA 90755</b>	Generator's Site Address (if different than mailing address) <b>DFSP Norwalk 15306 Norwalk Blvd. Norwalk, CA 90650</b>
Generator's Phone: <b>(562) 597-1055</b>	

6. Transporter 1 Company Name <b>NIETO &amp; SONS TRUCKING, INC.</b>	U.S. EPA ID Number <b>CAT080016116</b>
7. Transporter 2 Company Name	U.S. EPA ID Number

8. Designated Facility Name and Site Address <b>World Oil Recycling 2000 N. Alameda St. Compton, CA 90222</b>	U.S. EPA ID Number <b>CAT080013352</b>
Facility's Phone: <b>(310) 537-7100</b>	

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. UN1993, Flammable Liquid, n.o.s., 3, PGII (contains jet fuel)	001	TT	59	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 <b>ERG#:128 / Jet Fuel &amp; Groundwater Apex/ SGI Contact: (714) 608-1089</b>	<b>WEAR ALL APPROPRIATE PROTECTIVE CLOTHING</b>	<b>BESI:335103-337812 PROFILE 489161</b>
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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/Offeror's Printed/Typed Name <b>Neil F. Irish On Behalf of and as an Agent of DLA Energy</b>	Signature 	Month Day Year <b>01 05 22</b>
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16. International Shipments  Import to U.S.  Export from U.S. Port of entry/exit: \_\_\_\_\_ Date leaving U.S.: \_\_\_\_\_

Transporter signature (for exports only): \_\_\_\_\_

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name <b>Richard Duran</b>	Signature 	Month Day Year <b>01 05 22</b>
Transporter 2 Printed/Typed Name	Signature	Month Day Year

18. Discrepancy

18a. Discrepancy Indication Space  Quantity  Type  Residue  Partial Rejection  Full Rejection

Manifest Reference Number: \_\_\_\_\_

18b. Alternate Facility (or Generator) \_\_\_\_\_ U.S. EPA ID Number \_\_\_\_\_

Facility's Phone: \_\_\_\_\_

18c. Signature of Alternate Facility (or Generator) \_\_\_\_\_ Month Day Year \_\_\_\_\_

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. <b>H039</b>	2.	3.	4.
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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 <b>SOPHAL R-SWAY</b>	Signature 	Month Day Year <b>01 05 22</b>
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# Certificate of Treatment/Recycling

ISSUED TO

DEFENSE LOGISTICS AGENCY -

FOR

MANIFEST NUMBER 016573367FLE

DATE RECEIVED 1/5/2022

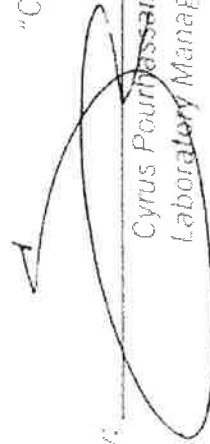
The aqueous waste received on the above manifest will be treated to standards mandated by the FEDERAL CLEAN WATER ACT and to effluent requirements established by the Sanitation Districts of Los Angeles County. Waste treatment and recycling is performed under permits granted to DeMENNO/KERDOON, a California Corporation, by the California Department of Toxic Control (DTSC), in coordination with the Environmental Protection Agency, in accordance with the provisions of the Resource Conservation and Recovery Act (RCRA) of 1976, together with applicable federal and state regulations including but not limited to waste discharge requirements established by the Sanitation Districts of Los Angeles County.

When the above described waste material is accepted by DeMENNO/KERDOON and treated/recycled and the aqueous phase discharged for further treatment by the Sanitation Districts, the certificate holder's responsibility for the waste material is eliminated under both RCRA and Proposition 65. Upon request, DeMENNO/KERDOON will issue this certificate that all waste material has been handled in accordance with applicable permits and the certificate holder's liability has been terminated.

DeMENNO/KERDOON

"Compliance Through Recycling"

By:



Cyrus Pourfassanian  
Laboratory Manager

Date:

1/28/2022

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\*DeMENNO/KERDOON is d.b.a. World Oil Recycling

