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<u>Report Title:</u>	Norwalk Remediation Status Report - Third Quarter 2023
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<u>Report Date:</u>	11/14/2023
<u>Facility Global ID:</u>	SLT43185183
<u>Facility Name:</u>	Norwalk, Fuel Terminal DFSP - DOD - NORWALK DFSP
<u>File Name:</u>	Norwalk Remediation Status Report - Third Quarter 2023.pdf
<u>Organization Name:</u>	The Source Group, Inc.(Subsidiary of Apex Companies, LLC)
<u>Username:</u>	SIGNAL HILL
<u>IP Address:</u>	172.117.126.198
<u>Submittal Date/Time:</u>	11/15/2023 2:58:44 PM
<u>Confirmation Number:</u>	6433213472



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November 14, 2023

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

Dear Mr. Cho:

Enclosed is one electronic copy of the *Remediation Status Report – Third Quarter 2023* for the 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 require additional information concerning this document, please contact me at (571) 767-3022 or william.potter@dla.mil.

Sincerely,

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Digitally signed by
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William Y. Potter, P.G.
Restoration Branch Chief

Enclosure
As stated

cc: Neil Irish, P.G., Vice President/Division Manager, SGI/Apex

REMEDIATION STATUS REPORT – THIRD QUARTER 2023

**DEFENSE FUEL SUPPORT POINT NORWALK
15306 Norwalk Boulevard
Norwalk, California**

SGI Project No. 091-NOR-001
DLA Contract No. SPE603-20-D-5008, CLIN 0001

Prepared For:



Defense Logistics Agency - Energy
Environmental Division Restoration Branch
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LIST OF ACRONYMS

AST	above ground storage tank
BTEX	Benzene, toluene, ethylbenzene, and total xylenes
COD	Chemical Oxygen Demand
°F	degrees Fahrenheit
DFSP	Defense Fuel Support Point
DLA	Defense Logistics Agency - Energy Environmental Division Restoration Branch
DTP	Depth to product
DTW	Depth to groundwater
ELAP	Environmental Laboratory Accreditation Program
EPA	United States Environmental Protection Agency
GAC	Granular activated carbon
GRO	Gasoline range organic
GWE	Groundwater extraction
GWETS	Groundwater extraction and treatment system
JP-5	Jet propellant number 5
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
RWQCB	California Regional Water Quality Control Board, Los Angeles Region
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 the Third Quarter 2023 (July – August) operating period 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 (RWQCB) 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. Further drilling and expansion work was completed during the First Quarter 2023, and the expanded treatment system was active starting in late-June 2023, as summarized in the *Treatment Well Installation and System Expansion*, submitted to the RWQCB on September 20, 2023.

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 on 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, a Bayoxide vessel for arsenic removal (added on June 22, 2022 [B-1]), two clay vessels in series, and two coal-based carbon (GAC) vessels in series. 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 vertical 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. During the Second Quarter 2022, biosparge trunkline cycles were further adjusted at the control panel to

alternate between eight groups rather than four, 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. The Biosparge system was shut down December 16, 2022 in preparation for well installation and system expansion work. Well installation was completed in March 2023, and conveyance piping and system modifications were completed in early May 2023. An additional 18 vertical (wells TFB-39 – TFB-45 and BSP-31 – BSP-41; Table 1 and Figure 3) and 4 horizontal biosparge wells (wells HAS-1 – HAS-4; Table 1 and Figure 3) were installed to target areas with recalcitrant contamination, along with three additional biosparge trunklines (BSP Trunklines 12 – 14). Installation of a new, higher capacity compressor occurred in early June 2023, and startup testing was conducted in late June. The new compressor is a Kaeser ASD-40 rotary screw compressor capable of 191 cubic feet per minute at 125 pounds per square inch gauge discharge. The biosparge system was restarted July 2023, after startup testing of the new wells was completed.

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.

During the First Quarter 2023, drilling efforts for installation of five additional horizontal SVE wells (HW-10 – HW-14; Table 1 and Figure 3) and seven vertical SVE wells (TFR-39 – TFR-45; Table 1 and Figure 3) wells were completed, along with two additional trunklines (SVE Trunklines 6 and 7). All the new SVE wells were connected to the existing thermal oxidizer via the control manifold in the

system compound. Startup testing was performed in late June 2023, and all wells were active in early July 2023.

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 measurable liquid-phase hydrocarbons during the first semiannual 2023 monitoring event is presented on 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 RWQCB 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 RWQCB 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 RWQCB 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; and total mass removed is reported in Section 3.0.

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 VES and thermal oxidizer VES 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 1,000 micrograms per liter ($\mu\text{g/L}$), 0.66 $\mu\text{g/L}$ 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 in 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, and continued in the central area, the eastern area, and the southern area wells until December 2022, when the system was shutdown in preparation for system expansion activities. The expanded system (including the new, higher capacity compressor) was restarted in early June 2023, after system startup testing was successfully concluded. Biosparge system OM&M details during this quarter are provided in Section 3 and 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. All product is placed in an AST located within the existing treatment compound. Mass and volume removal estimates using these techniques are summarized in Section 3 and in Tables 7A, 7B, 7N, 7O, 7P and 7R along with associated LNAPL gauging results. Total mass removed

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. No product was transported during this reporting period. 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 based on current gauging and yield data. Total mass

removed is reported in Section 3.0. The Product recovery system was not operated this quarter due to a decrease of 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 9,964 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 4,595 pounds (213 pounds via the carbon VES and 4,382 pounds via the thermal oxidizer VES). An estimated 2,989,207 pounds have been removed since April 1996 (Table 3C) via the carbon VES and approximately 379,571 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.

All of the recently installed biosparge wells were started up in early July 2023, and have been active throughout the current reporting period, including Central area vertical biosparge wells TFB-39, TFB-40, TFB-41, TFB-42, TFB-43, TFB-44, TFB-45, BSP-34, BSP-35, BSP-36, BSP-37, BSP-39, and BSP-41, Western area vertical biosparge wells BSP-31, BSP-32, BSP-33, and BSP-40, Southern area vertical biosparge well BSP-38, and Eastern area horizontal biosparge wells HAS-1, HAS-2, HAS-3, and HAS-4. In order to optimize injection performance, and minimize air compressor downtime, the injection cycling timer configuration was modified on August 8, 2023.

Biosparge system influence testing was performed on 15 monitoring wells targeted by 12 of the recently installed biosparge treatment wells to evaluate the influence of the recently expanded biosparge system on nearby monitoring wells, investigate potential issues that could reduce treatment performance, and optimize system performance in targeted areas where hydrocarbon impacts appear to be recalcitrant based on dissolved concentration trends. Based on the changes in monitoring parameters relative to conditions observed prior to the activation of the new treatment wells, 12 of the 14 monitoring wells tested appear to show varying degrees of influence from biosparging system operations. The injection cycling timer configuration was modified again on October 18, 2023 and will be adjusted iteratively to optimize air delivery to the treatment wells targeting the remaining recalcitrant areas. Additional influence testing is planned for the Fourth Quarter 2023 reporting period, and a summary will be included in the *Remediation Status Report - Fourth Quarter 2023*. A detailed summary of the testing results, conclusions and recommendations is included in Appendix C.

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-24, TFR-29 and RTF-18-E (Tables 7A, 7B, 7N, 7O, 7P and 7R).

A total of approximately 10 gallons (70 pounds) of LNAPL was removed from the Site during this quarter, and an estimated 10,537 gallons (71,191 pounds) of LNAPL has been removed since January 2014.

3.4.1 LNAPL Removal Via Bailing, Skimming and Absorbent Socks

Approximately 6 gallons (43 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, TFR-22, TFR-24, TFR-29 and RTF-18-E during this reporting period (Tables 7A, 7B, 7N, 7O, 7P 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. Based on low LNAPL yields, the product recovery system was offline during this reporting period. If LNAPL thicknesses increase, pumping may resume from these wells during the next reporting period. 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, 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 a decline in measurable LNAPL, operation of the product recovery system has temporarily ceased to allow LNAPL recovery.

Up-to-date gauging data will continue to be collected as needed during the next reporting period with rotating recovery operations being implemented based on ongoing performance data. If warranted by the data, pumping will also resume in any locations where it was previously conducted.

Once pumping resumes, adjustments will be made for each pumping well 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 and trunkline configuration and run time schedule will be evaluated and adjusted as needed. 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 FOURTH QUARTER 2023 ACTIVITIES

During the next reporting period, DLA plans to continue to focus in-situ remedial efforts on the central area, eastern area, and southern area of the Site. Following is a summary of planned Fourth Quarter 2023 OM&M activities:

- Continue minimum weekly maintenance and monitoring of the thermal oxidizer VES, including newly connected trunklines 6 & 7. 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) to evaluate any appearance and/or increase in LNAPL thicknesses and the potential for active/passive product recovery.
- If sufficient LNAPL yield is observed, resume operation of TFR-22 and TFR-29 and continue controlled product recovery system OM&M.
- 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.
- Monitor oxygen (O₂) and CO₂ concentrations in influent vapor; data will be used to validate the estimated biosparge system mass destruction and help provide technical basis for the transition to a passive remedy (e.g. natural source zone depletion).
- 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 biosparge trunkline cycling configuration and make adjustments as needed to optimize air delivery to treatment wells located in previously identified “hot-spot” areas.
- Monitor air delivery to new vertical and horizontal wells to confirm stable & effective operation and evaluate head loss between manifold and wellheads.
- Monitor pressure response and groundwater mounding nearby monitoring wells targeted by new treatment wells during biosparging operations to verify influence.
- Monitor dissolved oxygen, oxidation reduction potential, temperature, pH, and electrical conductivity in monitoring wells targeted by the new biosparge treatment wells to evaluate influence and treatment efficacy.

Ongoing remediation activities and progress will be described in the *Fourth Quarter 2023 Remediation Progress Report* to be submitted by February 15, 2023.

6.0 LIMITATIONS

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

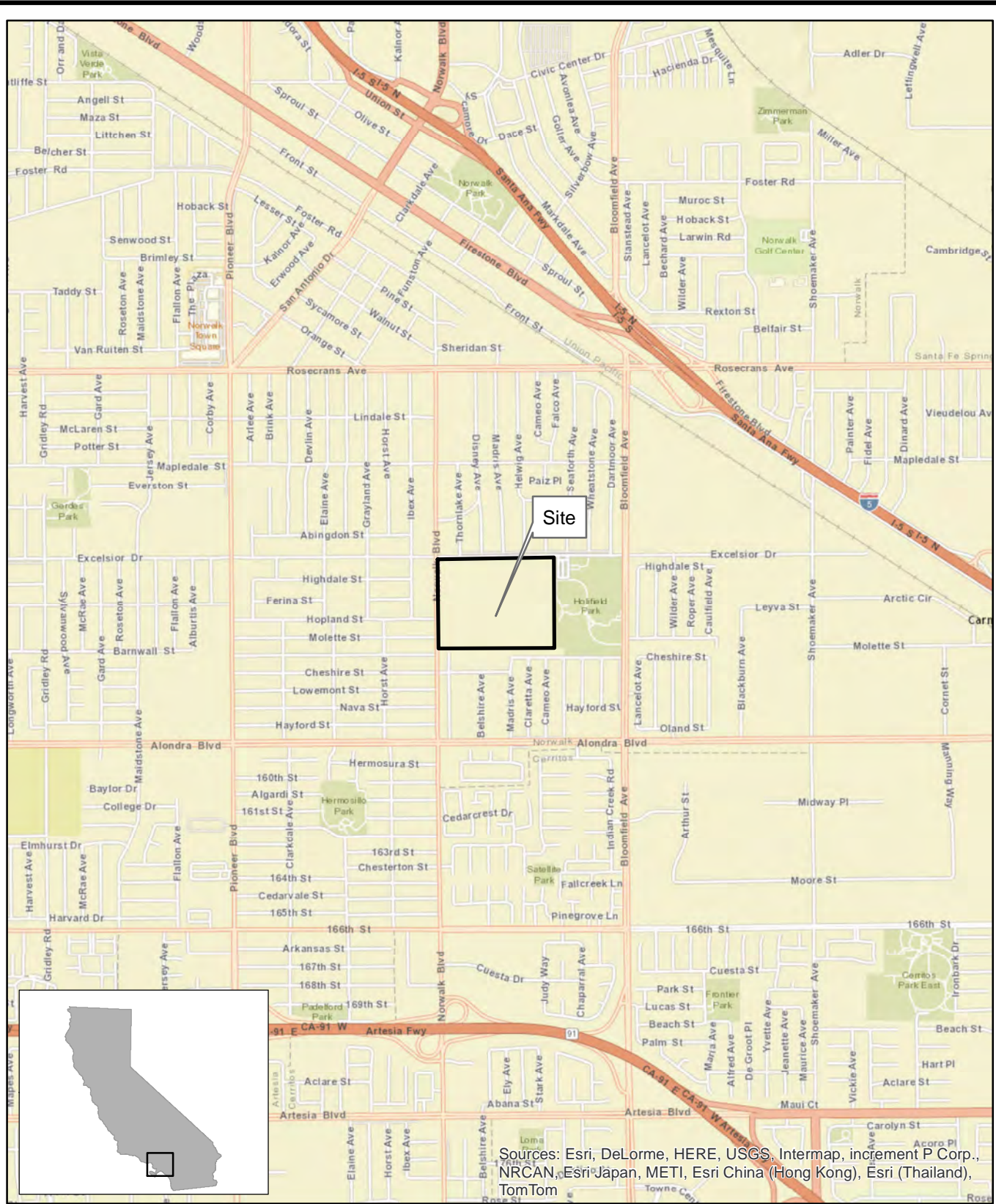
To the extent that this report is based on information provided to SGI/Apex by third parties, including DLA, their direct contractors, previous personnel, and other stakeholders, SGI/Apex cannot guarantee the completeness or accuracy of this information, even where efforts were made to verify third-party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

The presented findings and recommendations in this report are intended to be taken in their entirety to assist DLA and RWQCB 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

7.0 REFERENCES

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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

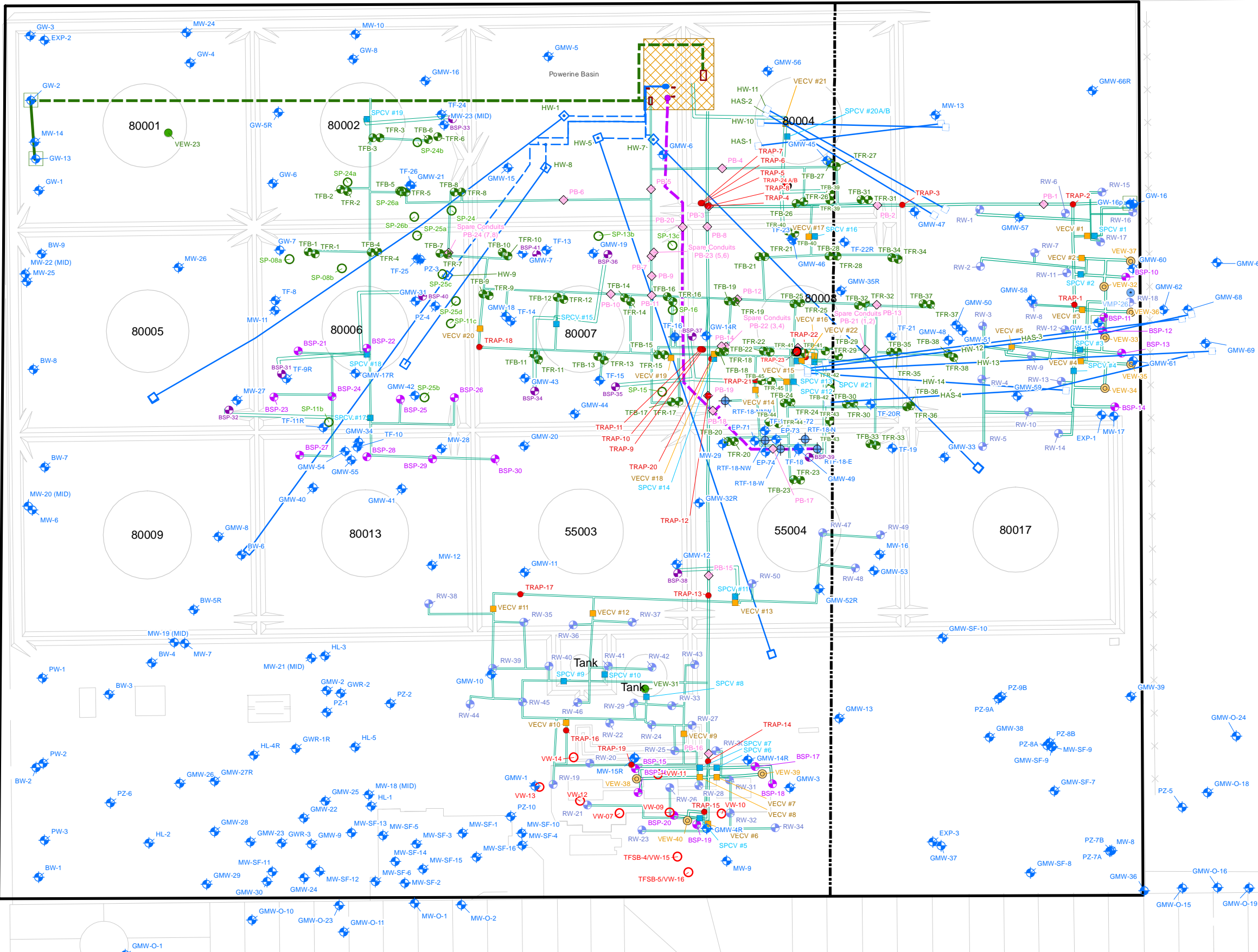
**DEFENSE FUEL SUPPORT POINT
 NORWALK**
 15306 NORWALK BOULEVARD
 NORWALK, CALIFORNIA

SITE LOCATION MAP

FIGURE
 1

Excelsior Dr

Norwalk Blvd

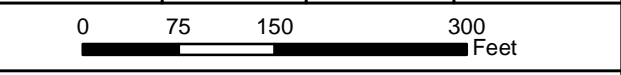


Legend

- 80001 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	08/04/2023	SM	BT



Site Map Showing All Well and Piping Locations

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

Figure
2

Explanation

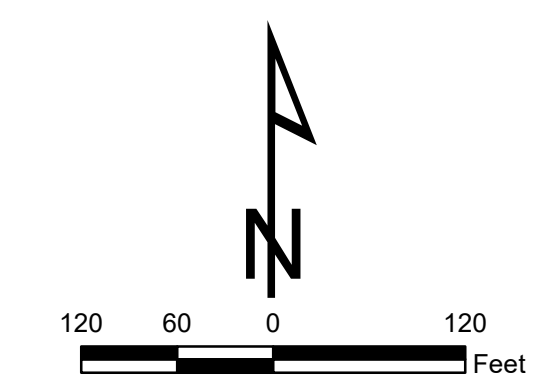
- **GMW-5** Groundwater monitoring well
- ↑ **VEW-1** Vapor extraction, groundwater extraction, total fluids, or free product extraction well used for site remediation
- **GMW-47 42.19** Groundwater elevation in feet above mean sea level (MSL)
- ↑ **GMW-36** 0.27 42.58 Apparent thickness of free product measured in well (feet), groundwater elevations calculated by removing product head effect.
- **EP-73** 40.6 Groundwater elevation not used in contouring
- **TF-17** Decommissioned well
- 43.0— Lines of equal groundwater elevation showing groundwater elevation in feet above MSL (dashed where inferred)
- Estimated extent of measurable light nonaqueous phase liquid (LNAPL, free product) on groundwater; dashed where inferred
- Approximate direction of groundwater flow and estimated horizontal hydraulic gradient in foot/foot (ft/ft)

Notes

1. Groundwater elevations and product thicknesses shown at wells are based on data collected by SGI, Blaine Tech, and SFPP in May 2023.
2. SFPP and DLA's remediation systems were shut down approximately 1 week prior to collecting fluid level measurements in May 2023.
3. Wells screened in the Exposition aquifer or near the bottom of the uppermost aquifer, or with groundwater elevations that are inconsistent with surrounding groundwater elevations, are not used in contouring. Groundwater elevation contours are intended to represent generalized site-wide conditions and are interpreted from data collected by Blaine Tech. Wells with groundwater elevations not used in contouring are marked with a red asterisk (*).
4. NG = not gauged
5. Wells at which a groundwater elevation or "NC" qualifier is not supplied are not included in the Monitoring and Reporting Program and were not visited during this monitoring event.
6. Fuel storage tanks depicted on the figure are historical structures and have been removed from the site.

Survey Notes

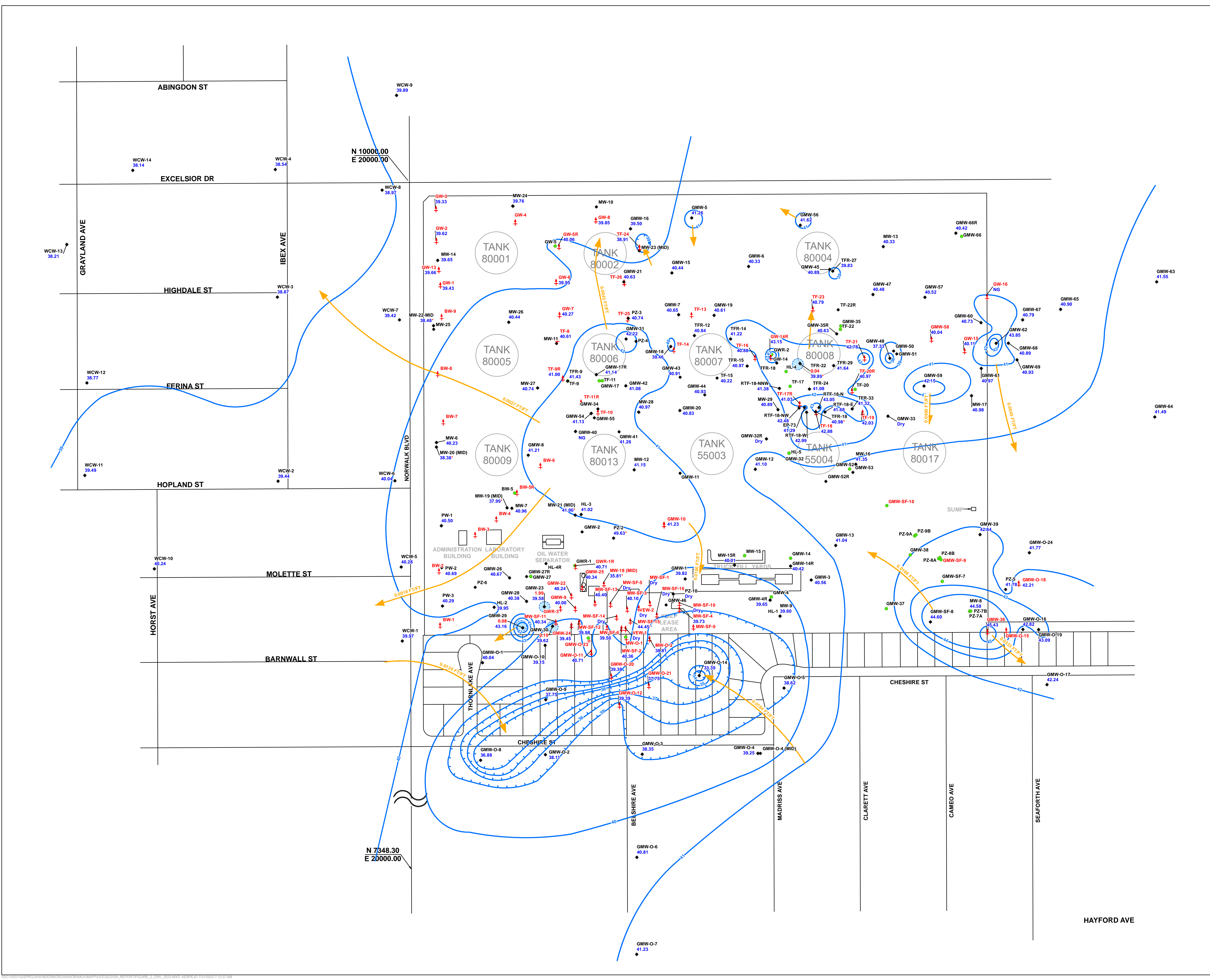
1. Base map prepared from data provided by Fluor Daniel GTI, Dulin & Boynton, Geomatrix, and Parsons.
2. Except as noted below, well locations surveyed by Dulin & Boynton.
3. Locations of wells HL-3, and HL-4 based on field measurements by Fluor Daniel GTI and Woodward-Clyde.
4. Locations of wells BW-1 through BW-9 surveyed by Geomatrix based on reference to other wells surveyed by Dulin & Boynton.
5. Locations of wells TFR-9, TFR-12, TFR-14, TFR-15, TFR-18, TFR-22, TFR-24, TFR-27, TFR-29, and TFR-33 based on field measurements by SGI.



GROUNDWATER ELEVATIONS AND MEASURABLE LIQUID-PHASE HYDROCARBONS IN UPPERMOST GROUNDWATER ZONE
 May 2023
DEFENSE FUEL SUPPORT POINT NORWALK
 Norwalk, California

By: Ann Espejo	Date: 7/2023	Project No: KMNWCR23
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Jacobs	Figure 3
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TABLES

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

Remediation Area	Location	Well	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
Eastern Area	15 Acre City of Norwalk Parcel	VEW-22	--	--	25	15 - 25	SVE
		HW-1	--	--	25	Continuous	SVE
		HW-3	--	--	25	Continuous	SVE
		HW-5	--	--	25	Continuous	SVE
		HW-7	--	--	25	Continuous	SVE
		HW-8	06/07/19	--	30	60	SVE
		HW-9	06/07/19	--	29	220	SVE
		HAS-1	01/13/23	--	44	50	Biosparge
		HAS-2	01/12/23	--	45	100	Biosparge
		HW-10	01/12/23	78.05	31	135 (continuous)	SVE
		HW-11	01/12/23	77.77	32	120 (continuous)	SVE
		HW-14	12/18/22	76.90	30	105 (continuous)	SVE
	Holifield Park	HAS-3	12/18/22	--	45	100 (continuous)	Biosparge
		HAS-4	12/21/22	--	45	200 (continuous)	Biosparge
		HW-12	12/18/22	77.00	30	120 feet (continuous)	SVE
		HW-13	12/18/22	77.03	32	145 feet (continuous)	SVE

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

Remediation Area	Location	Well	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)	GMW-21	08/02/91	76.23	50	25 - 50	TFE/GWE
		GMW-31	06/02/93	76.50	65	25 - 50	GWE
		GW-14R	11/08/16	78.77	50	25 - 50	GWE
		SP8a	--	--	50	48 - 50	Biosparge
		SP-8b	--	--	50	48 - 50	Biosparge
		SP-11b	--	--	50	48 - 50	Biosparge
		SP-11c	--	--	50	48 - 50	Biosparge
		SP-13b	--	--	50	48 - 50	Biosparge
		SP-13c	--	--	50	48 - 50	Biosparge
		SP-15	--	--	50	48 - 50	Biosparge
		SP-16	--	--	50	48 - 50	Biosparge
		SP-24	--	--	50	48 - 50	Biosparge
		SP-24a	--	--	50	48 - 50	Biosparge
		SP-24b	--	--	50	48 - 50	Biosparge
		SP-25a	--	--	50	48 - 50	Biosparge
		SP-25b	--	--	50	48 - 50	Biosparge
		SP-25c	--	--	50	48 - 50	Biosparge
		SP-25d	--	--	50	48 - 50	Biosparge
		SP-26	--	--	50	48 - 50	Biosparge
		SP-26a	--	--	50	48 - 50	Biosparge
		TF-8	09/22/95	74.86	63	25 - 60	TFE, GWE
TF-9	09/22/95	74.47	63	25 - 60	TFE, GWE		
TF-10	09/25/95	73.61	63	25 - 60	TFE, GWE		
TF-11	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	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	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	10/03/95	75.08	63	25 - 60	TFE, GWE
		TF-21	09/29/95	74.96	63	25 - 60	TFE, GWE
		TF-22	10/02/95	74.76	63	25 - 60	TFE, GWE
		TF-23	07/05/94	75.31	50.5	20 - 50	TFE, GWE
		TF-24	09/26/95	76.43	63	25 - 60	TFE, GWE
		TF-25	04/04/01	74.85	47	26 - 36	TFE, GWE
		TF-26	04/03/01	75.85	47	26 - 36	TFE, GWE
		RTF-18-N	12/28/15	75.17	40	25 - 40	TFE, GWE
		RTF-18-E	12/28/15	75.19	40	25 - 40	TFE, GWE
		RTF-18-W	12/28/15	74.86	40	25 - 40	TFE, GWE
		RTF-18-NW	12/29/15	76.22	40	25 - 40	TFE, GWE
		RTF-18-NNW	12/29/15	76.77	40	25 - 40	TFE, GWE

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

Remediation Area	Location	Well	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)	BSP-21	12/07/17	--	46	43 - 45	Biosparge
		BSP-22	12/07/17	--	46	43 - 45	Biosparge
		BSP-23	12/08/17	--	46	43 - 45	Biosparge
		BSP-24	12/07/17	--	46	43 - 45	Biosparge
		BSP-25	12/08/17	--	46	43 - 45	Biosparge
		BSP-26	12/08/17	--	46	43 - 45	Biosparge
		BSP-27	12/07/17	--	46	43 - 45	Biosparge
		BSP-28	12/07/17	--	46	43 - 45	Biosparge
		BSP-29	12/08/17	--	46	43 - 45	Biosparge
		BSP-30	12/11/17	--	46	43 - 45	Biosparge
Western Area	AST 80006	BSP-31	02/22/23	77.45	46	43.5 - 45.5	Biosparge
	AST 80005	BSP-32	02/22/23	78.38	46	43.5 - 45.5	Biosparge
	AST 80002	BSP-33	02/21/23	79.68	46	43 - 45	Biosparge
	AST 80006	BSP-40	02/21/23	76.91	46	43 - 45	Biosparge
Central Area	AST 80007	BSP-34	02/17/23	78.63	46	43 - 45	Biosparge
		BSP-35	02/16/23	78.36	46	43 - 45	Biosparge
		BSP-36	02/17/23	78.55	46	43 - 45	Biosparge
	AST 80008	BSP-37	02/16/23	78.15	46	43 - 45	Biosparge
	AST 55004	BSP-39	02/13/23	76.70	46	43 - 45	Biosparge
	AST 80007	BSP-41	02/21/23	78.88	51	48 - 50	Biosparge
Southern Area	AST 55003	BSP-38	02/15/23	77.11	46	43 - 45	Biosparge

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

Remediation Area	Location	Well	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function
Central Area	North (AST 80002, AST 80006)	TFR-1	12/13/17	--	40	20 - 40	TFE, SVE
		TFR-2	12/12/17	--	40	20 - 40	TFE, SVE
		TFR-3	12/12/17	--	40	20 - 40	TFE, SVE
		TFR-4	12/13/17	--	40	20 - 40	TFE, SVE
		TFR-5	12/12/17	--	40	20 - 40	TFE, SVE
		TFR-6	12/12/17	--	40	20 - 40	TFE, SVE
		TFR-7	12/13/17	--	40	20 - 40	TFE, SVE
	North (AST 80007)	TFR-8	12/12/17	--	40	20 - 40	TFE, SVE
		TFR-9	12/13/17	--	40	20 - 40	TFE, SVE
		TFR-10	12/11/17	--	40	20 - 40	TFE, SVE
Central Area	North (AST 80002, AST 80004, AST 80006, AST 80007, AST 80008, AST 80013, AST 55003, AST 55004)	TFR-11	12/11/17	--	40	20 - 40	TFE, SVE
		TFR-12	12/11/17	--	40	20 - 40	TFE, SVE
		TFR-13	12/15/17	--	40	20 - 40	TFE, SVE
		TFR-14	12/13/17	--	40	20 - 40	TFE, SVE
		TFR-15	12/14/17	--	40	20 - 40	TFE, SVE
		TFR-16	12/14/17	--	40	20 - 40	TFE, SVE
		TFR-17	12/14/17	--	40	20 - 40	TFE, SVE
		TFR-18	12/14/17	--	40	20 - 40	TFE, SVE
		TFR-19	12/12/17	--	40	20 - 40	TFE, SVE
		TFR-20	12/15/17	--	40	20 - 40	TFE, SVE
		TFR-21	12/11/17	--	40	20 - 40	TFE, SVE
		TFR-22	11/30/17	--	40	20 - 40	TFE, SVE
		TFR-23	11/29/17	--	40	20 - 40	TFE, SVE
		TFR-24	11/30/17	--	40	20 - 40	TFE, SVE
		TFR-25	11/30/17	--	40	20 - 40	TFE, SVE
		TFR-26	11/29/17	--	40	20 - 40	TFE, SVE
		TFR-27	11/29/17	--	40	20 - 40	TFE, SVE
		TFR-28	11/29/17	--	40	20 - 40	TFE, SVE

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

Remediation Area	Location	Well	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-29	11/29/17	--	40	20 - 40	TFE, SVE
		TFR-30	11/29/17	--	40	20 - 40	TFE, SVE
		TFR-31	11/29/17	--	40	20 - 40	TFE, SVE
		TFR-32	11/30/17	--	40	20 - 40	TFE, SVE
		TFR-33	11/28/17	--	40	20 - 40	TFE, SVE
		TFR-34	11/28/17	--	40	20 - 40	TFE, SVE
		TFR-35	11/29/17	--	40	20 - 40	TFE, SVE
		TFB-1	12/06/17	--	46	43 - 45	Biosparge
		TFB-2	12/05/17	--	46	43 - 45	Biosparge
		TFB-3	12/05/17	--	46	43 - 45	Biosparge
		TFB-4	12/06/17	--	46	43 - 45	Biosparge
		TFB-5	12/06/17	--	46	43 - 45	Biosparge
		TFB-6	12/05/17	--	46	43 - 45	Biosparge
		TFB-7	12/06/17	--	46	43 - 45	Biosparge
		TFB-8	12/05/17	--	46	43 - 45	Biosparge
		TFB-9	12/04/17	--	46	43 - 45	Biosparge
		TFB-10	12/04/17	--	46	43 - 45	Biosparge
		TFB-11	12/04/17	--	50	48 - 50	Biosparge
		TFB-12	12/01/17	--	46	43 - 45	Biosparge
		TFB-13	12/01/17	--	46	43 - 45	Biosparge
		TFB-14	11/30/17	--	46	43 - 45	Biosparge
TFB-15	11/27/17	--	46	43 - 45	Biosparge		
TFB-16	11/28/17	--	46	43 - 45	Biosparge		
TFB-17	11/28/17	--	46	43 - 45	Biosparge		
TFB-18	11/27/17	--	46	43 - 45	Biosparge		
TFB-19	11/28/17	--	46	43 - 45	Biosparge		
TFB-20	11/30/17	--	46	43 - 45	Biosparge		
TFB-21	11/27/17	--	46	43 - 45	Biosparge		

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

Remediation Area	Location	Well	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-22	11/27/17	--	46	43 - 45	Biosparge
		TFB-23	11/28/17	--	46	43 - 45	Biosparge
		TFB-24	11/27/17	--	46	43 - 45	Biosparge
		TFB-25	11/27/17	--	46	43 - 45	Biosparge
		TFB-26	11/22/17	--	46	43 - 45	Biosparge
		TFB-27	11/21/17	--	46	43 - 45	Biosparge
		TFB-28	11/22/17	--	46	43 - 45	Biosparge
		TFB-29	11/27/17	--	46	43 - 45	Biosparge
		TFB-30	11/27/17	--	46	43 - 45	Biosparge
		TFB-31	11/21/17	--	46	43 - 45	Biosparge
		TFB-32	11/22/17	--	46	43 - 45	Biosparge
		TFB-33	11/27/17	--	46	43 - 45	Biosparge
		TFB-34	11/21/17	--	46	43 - 45	Biosparge
		TFB-35	11/27/17	--	46	43 - 45	Biosparge
Central Area	AST 80004	TFB-39	02/09/23	77.65	46	43 - 45	Biosparge
		TFR-39	02/06/23	77.77	40	20 - 40	TFE, SVE

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

Remediation Area	Location	Well	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function
Central Area	AST 80008	TFB-40	02/09/23	78.44	46	43 - 45	Biosparge
		TFB-41	02/10/23	77.14	46	43 - 45	Biosparge
		TFB-42	02/14/23	76.97	46	43 - 45	Biosparge
		TFB-43	02/14/23	76.70	46	43.5 - 45.5	Biosparge
		TFB-44	02/10/23	76.51	46	43.5 - 45.5	Biosparge
		TFB-45	02/13/23	77.10	46	43.5 - 45.5	Biosparge
		TFR-40	02/06/23	78.50	40	20 - 40	TFE, SVE
		TFR-41	02/08/23	77.18	40	20 - 40	TFE, SVE
		TFR-42	02/07/23	77.01	40	20 - 40	TFE, SVE
		TFR-43	02/07/23	77.03	40	20 - 40	TFE, SVE
		TFR-44	02/15/23	76.98	40	20 - 40	TFE, SVE
		TFR-45	02/08/23	77.20	40	20 - 40	TFE, SVE
Southern Area	AST 80013, AST 55003, AST 55004, AST 80017	RW-35	11/15/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-36	11/15/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-37	11/16/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-38	11/16/17	--	33 / 47	13 - 33 / 44 - 46	SVE / Biosparge
		RW-47	11/17/17	--	33 / 47	13 - 33 / 44 - 46	SVE / Biosparge
		RW-48	11/17/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-49	11/16/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-50	11/20/17	--	33 / 47	13 - 33 / 44 - 46	SVE / Biosparge
Eastern Area	North	BSP-1	04/18/07	--	50	47 - 49	Biosparge
		BSP-2	04/18/07	--	50	48 - 50	Biosparge
		BSP-3	04/17/07	--	48	46 - 48	Biosparge
		BSP-4	04/17/07	--	49	47 - 49	Biosparge
		BSP-5	04/17/07	--	49.5	47 - 49	Biosparge
		BSP-6	04/18/07	--	49	47 - 49	Biosparge
		BSP-7	04/19/07	--	48	46 - 48	Biosparge
		BSP-8	04/19/07	--	48	46 - 48	Biosparge

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

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

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

Remediation Area	Location	Well	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function
Eastern Area	North	SP-21b	--	--	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	11/30/17	--	40	20 - 40	TFE, SVE
		TFR-37	11/28/17	--	40	20 - 40	TFE, SVE
		TFR-38	11/28/17	--	40	20 - 40	TFE, SVE
		TFB-36	11/20/17	--	46	43 - 45	Biosparge
		TFB-37	11/21/17	--	46	43 - 45	Biosparge
		TFB-38	11/20/17	--	46	43 - 45	Biosparge
Southern Area	Former Truck Fueling Area and Adjacent Water Tank Area	BSP-15	11/02/16	--	50.5	48 - 50	Biosparge
		BSP-16	11/03/16	--	50.5	48 - 50	Biosparge
		BSP-17	11/03/16	--	50.5	48 - 50	Biosparge
		BSP-18	11/03/16	--	50.5	48 - 50	Biosparge
		BSP-19	11/02/16	--	50.5	48 - 50	Biosparge
		BSP-20	11/01/16	--	50.5	48 - 50	Biosparge
		RW-19	06/30/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-20	06/29/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-21	06/30/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-22	06/28/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-23	06/30/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-24	06/28/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-25	06/28/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-26	07/03/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-27	06/28/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-28	07/03/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-29	06/29/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
RW-30	06/27/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge		

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

Remediation Area	Location	Well	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	RW-31	07/03/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-32	07/03/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-33	06/29/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-34	07/03/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-39	11/15/17	--	33 / 47	13 - 33 / 44 - 46	SVE / Biosparge
		RW-40	11/15/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-41	11/14/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-42	11/14/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-43	11/14/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-44	11/13/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-45	11/13/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-46	11/13/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		VEW-31	08/03/04	75.10	15	5 - 15	SVE
		VEW-38	11/02/16	--	30.5	20 - 30	SVE
		VEW-39	11/03/16	--	30.5	20 - 30	SVE
		VEW-40	11/02/16	--	30.5	20 - 30	SVE
		VW-07	--	75.64	--	--	SVE
		VW-09	--	75.77	--	--	SVE
		VW-10	03/23/04	75.78	30.5	20 - 30	SVE
		VW-11	03/23/04	75.55	25	20 - 25	SVE
VW-12	03/23/04	75.79	30.5	15 - 30	SVE		
VW-13	03/23/04	75.42	29	25 - 29	SVE		
VW-14	03/23/04	75.89	28	15 - 28	SVE		
VW-15	04/14/04	75.45	30	20 - 30	SVE		
VW-16	04/14/04	75.29	30	20 - 30	SVE		

Legend/Notes:

- ft msl = Feet above mean sea level
- ft bgs = Feet below ground surface
- AST = Aboveground storage tank
- BSP = Biosparge
- HW = Horizontal vapor extraction well
- SVE = Soil vapor extraction
- TFE = Total fluid extraction
- TFB = Total fluids biosparge
- TFR = Total fluids recovery
- = Information not available

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

Date	Data Source	Notes	GW-14R Totalizer Reading (gallons)	GMW-31 Totalizer Reading (gallons)	GW-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 ^A (lb)
7/1/23	*		--	--	--	--	--	--	--	--	9,962.24
7/2/23	*		--	--	--	--	--	--	--	--	9,962.26
7/3/23	*		--	--	--	--	--	--	--	--	9,962.29
7/4/23	*		--	--	--	--	--	--	--	--	9,962.31
7/5/23	*		--	--	--	--	--	--	--	--	9,962.33
7/6/23	Technician		1,730,106	868,992	2,134,959	2,134,959	2,599,098	4,864,523	48,399	--	9,962.36
7/7/23	*		--	--	--	--	--	--	--	--	9,962.37
7/8/23	*		--	--	--	--	--	--	--	--	9,962.39
7/9/23	*		--	--	--	--	--	--	--	--	9,962.41
7/10/23	Technician		1,741,442	874,557	2,139,626	2,139,626	2,615,999	4,887,404	22,881	--	9,962.42
7/11/23	*		--	--	--	--	--	--	--	--	9,962.45
7/12/23	*		--	--	--	--	--	--	--	--	9,962.47
7/13/23	*		--	--	--	--	--	--	--	--	9,962.50
7/14/23	Technician		1,752,682	879,519	2,149,165	2,149,165	2,632,201	4,922,739	35,335	--	9,962.52
7/15/23	Off line		--	--	--	--	--	--	--	--	9,962.52
7/16/23	Off line		--	--	--	--	--	--	--	--	9,962.52
7/17/23	Technician		1,752,682	879,519	2,149,165	2,149,165	2,632,201	4,922,904	165	--	9,962.52
7/18/23	*		--	--	--	--	--	--	--	--	9,962.54
7/19/23	*		--	--	--	--	--	--	--	--	9,962.55
7/20/23	*		--	--	--	--	--	--	--	--	9,962.57
7/21/23	Technician	1	1,762,558	881,142	2,156,263	2,156,263	2,643,700	4,941,749	18,845	1,000	9,962.60
7/22/23	*		--	--	--	--	--	--	--	--	9,962.63
7/23/23	*		--	--	--	--	--	--	--	--	9,962.66
7/24/23	*		--	--	--	--	--	--	--	--	9,962.69
7/25/23	*		--	--	--	--	--	--	--	--	9,962.73
7/26/23	Technician		1,770,143	881,199	2,161,404	2,161,404	2,651,342	4,962,049	20,300	--	9,962.77
7/27/23	*		--	--	--	--	--	--	--	--	9,962.81
7/28/23	*		--	--	--	--	--	--	--	--	9,962.86
7/29/23	*		--	--	--	--	--	--	--	--	9,962.91
7/30/23	*		--	--	--	--	--	--	--	--	9,962.95
7/31/23	Technician		1,782,160	881,129	2,169,818	2,169,818	2,663,289	4,990,059	28,010	--	9,963.00

Cumulative Groundwater Discharged by the GWETS to Date (gallons)							
Period	July	Quarter 1, 2023	Quarter 2, 2023	Quarter 3, 2023	Quarter 4, 2023	2023 to Date	April 1996 to Date
Volume	173,935	374,702	458,375	173,935	--	1,007,012	83,402,766

Cumulative Mass DRO Removed by the GWETS ^A (lb)			
Period	July	Quarter 3 to Date	April 1996 to Date
Mass	0.78	0.78	9,963.0

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

Legend / Notes:

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

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

GWETS = Groundwater extraction and treatment system
 ug/L - Micrograms per liter
 A = Hydrocarbon removal is calculated using analytical laboratory result for DRO (if not detected, half the detection limit used) from sample collected this month.
 -- = Not applicable
 lb = Pounds
 DRO = Diesel range organics

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

Date	Data Source	Notes	GW-14R Totalizer Reading (gallons)	GMW-31 Totalizer Reading (gallons)	GW-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 ^A (lb)
8/1/23	*		--	--	--	--	--	--	--	--	9,963.03
8/2/23	*		--	--	--	--	--	--	--	--	9,963.06
8/3/23	*		--	--	--	--	--	--	--	--	9,963.08
8/4/23	*		--	--	--	--	--	--	--	--	9,963.11
8/5/23	*		--	--	--	--	--	--	--	--	9,963.14
8/6/23	*		--	--	--	--	--	--	--	--	9,963.17
8/7/23	*		--	--	--	--	--	--	--	--	9,963.20
8/8/23	*		--	--	--	--	--	--	--	--	9,963.22
8/9/23	Technician	1	1,789,554	881,916	2,183,751	2,183,751	2,671,469	5,020,207	30,148	--	9,963.25
8/10/23	Off line		--	--	--	--	--	--	--	--	9,963.25
8/11/23	Off line		--	--	--	--	--	--	--	--	9,963.26
8/12/23	Off line		--	--	--	--	--	--	--	--	9,963.26
8/13/23	Off line		--	--	--	--	--	--	--	--	9,963.26
8/14/23	Technician	2	1,786,920	881,917	2,185,975	2,185,975	2,668,838	5,021,637	1,430	--	9,963.26
8/15/23	*		--	--	--	--	--	--	--	--	9,963.27
8/16/23	Technician	3	1,785,867	881,918	2,186,864	2,186,864	2,667,785	5,022,209	572	1,000	9,963.27
8/17/23	*		--	--	--	--	--	--	--	--	9,963.31
8/18/23	*		--	--	--	--	--	--	--	--	9,963.36
8/19/23	*		--	--	--	--	--	--	--	--	9,963.40
8/20/23	*		--	--	--	--	--	--	--	--	9,963.45
8/21/23	*		--	--	--	--	--	--	--	--	9,963.49
8/22/23	Technician		1,800,523	881,918	2,194,244	2,194,244	2,682,440	5,053,549	31,340	--	9,963.53
8/23/23	*		--	--	--	--	--	--	--	--	9,963.55
8/24/23	*		--	--	--	--	--	--	--	--	9,963.57
8/25/23	*		--	--	--	--	--	--	--	--	9,963.60
8/26/23	*		--	--	--	--	--	--	--	--	9,963.62
8/27/23	*		--	--	--	--	--	--	--	--	9,963.64
8/28/23	Technician		1,807,590	881,918	2,197,659	2,197,659	2,689,508	5,070,287	16,738	--	9,963.67
8/29/23	Technician		1,808,768	881,918	2,198,228	2,198,228	2,690,686	5,073,077	2,790	--	9,963.69
8/30/23	*		--	--	--	--	--	--	--	--	9,963.73
8/31/23	*		--	--	--	--	--	--	--	--	9,963.77

Cumulative Groundwater Discharged by the GWETS (gallons)							
Period	August	Quarter 1, 2023	Quarter 2, 2023	Quarter 3, 2023	Quarter 4, 2023	2023 to Date	April 1996 to Date
Volume	92,361	374,702	458,375	266,296	--	1,099,372	83,495,127

Cumulative Mass DRO Removed by the GWETS ^A (lb)			
Period	August	Quarter 3 to Date	April 1996 to Date
Mass	0.77	1.55	9,963.8

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

Legend / Notes:
 1 = GWETS manually shut down pending media change out work.
 2 = GWETS restarted.
 3 = Collected monthly influent and effluent water samples for laboratory analysis.

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

GWETS = Groundwater extraction and treatment system
 ug/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 - September
 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 ^A (lb)
9/1/23	*		--	--	--	--	--	--	--	--	9,963.81
9/2/23	*		--	--	--	--	--	--	--	--	9,963.85
9/3/23	*		--	--	--	--	--	--	--	--	9,963.89
9/4/23	*		--	--	--	--	--	--	--	--	9,963.93
9/5/23	Technician	1	1,827,748	881,920	2,207,537	2,207,537	2,709,668	5,106,749	33,672	--	9,963.97
9/6/23	Technician	2, 3	1,827,748	881,920	2,207,537	2,207,537	2,709,668	5,106,749	0	--	9,963.97
9/7/23	*		--	--	--	--	--	--	--	--	9,963.99
9/8/23	*		--	--	--	--	--	--	--	--	9,964.00
9/9/23	*		--	--	--	--	--	--	--	--	9,964.01
9/10/23	*		--	--	--	--	--	--	--	--	9,964.02
9/11/23	*		--	--	--	--	--	--	--	--	9,964.03
9/12/23	Technician		1,833,888	881,920	2,210,576	2,210,576	2,715,808	5,115,259	8,510	--	9,964.05
9/13/23	Technician	4	1,833,895	881,920	2,210,594	2,210,594	2,715,815	5,115,658	399	--	9,964.05
9/14/23	Off line		--	--	--	--	--	--	--	--	9,964.05
9/15/23	Technician		1,833,910	881,920	2,210,632	2,210,632	2,715,830	5,115,658	0	--	9,964.05
9/16/23	Off line		--	--	--	--	--	--	--	--	9,964.05
9/17/23	Off line		--	--	--	--	--	--	--	--	9,964.05
9/18/23	Off line		--	--	--	--	--	--	--	--	9,964.05
9/19/23	Off line		--	--	--	--	--	--	--	--	9,964.05
9/20/23	Off line		--	--	--	--	--	--	--	--	9,964.05
9/21/23	Off line		--	--	--	--	--	--	--	--	9,964.06
9/22/23	Technician	2, 5	1,833,961	881,920	2,210,762	2,210,762	2,715,881	5,116,624	966	--	9,964.06
9/23/23	*		--	--	--	--	--	--	--	--	9,964.08
9/24/23	*		--	--	--	--	--	--	--	--	9,964.11
9/25/23	Technician		1,836,198	881,929	2,214,605	2,214,605	2,718,127	5,127,214	10,590	--	9,964.14
9/26/23	*		--	--	--	--	--	--	--	--	9,964.18
9/27/23	Technician	6	1,840,143	882,345	2,216,645	2,216,645	2,722,488	5,134,274	7,060	270	9,964.18
9/28/23	*		--	--	--	--	--	--	--	--	9,964.19
9/29/23	*		--	--	--	--	--	--	--	--	9,964.20
9/30/23	*		--	--	--	--	--	--	--	--	9,964.21

Cumulative Groundwater Discharged by the GWETS (gallons)							
Period	September	Quarter 1, 2023	Quarter 2, 2023	Quarter 3, 2023	Quarter 4, 2023	2023 to Date	April 1996 to Date
Volume	64,117	374,702	458,375	330,413	--	1,163,489	83,559,244

Cumulative Mass DRO Removed by the GWETS ^A (lb)			
Period	September	Quarter 3 to Date	April 1996 to Date
Mass	0.44	1.99	9,964.2

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

Legend / Notes:

- 1 = GWETS manually shut down pending media change out work.
 - 2 = GWETS restarted.
 - 3 = LGAC-2 placed in standby position, LGAC-1 added to treatment process.
 - 4 = GWETS automatically shut down
 - 5 = LGAC-1 placed in standby position, LGAC-2 added to treatment process.
 - 6 = Collected monthly influent and effluent water samples for laboratory analysis.
- Groundwater extraction wells on line this month: GW-14R, GWM-31, GW-16.
 * = Operational values interpolated from chart recorder data or previous monitoring event.

GWETS = Groundwater extraction and treatment system

ug/L - Micrograms per liter

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

-- = Not applicable

lb = Pounds

DRO = Diesel range organics

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

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow ^A (scfm)	VES Manifold Vacuum (in. Hg)	Carbon Inlet Temperature (°F)	Laboratory Process Concentration (ppmv)	Field Process Concentration ^{B,C} (ppmv)	Field Effluent Concentration ^{B,C} (ppmv)	Cumulative Vapor-Phase GRO Removed ^D (lb)
07/01/23	*		84,180	597	--	--	--	--	--	2,988,997
07/02/23	*		84,204	597	--	--	--	--	--	2,988,999
07/03/23	*		84,229	597	--	--	--	--	--	2,989,001
07/04/23	*		84,253	597	--	--	--	--	--	2,989,003
07/05/23	*		84,278	597	--	--	--	--	--	2,989,005
07/06/23	Technician		84,302	608	4.5	130.0	--	182.0	0.0	2,989,007
07/07/23	*		84,326	608	--	--	--	--	--	2,989,009
07/08/23	*		84,349	608	--	--	--	--	--	2,989,011
07/09/23	*		84,373	608	--	--	--	--	--	2,989,013
07/10/23	*		84,396	608	--	--	--	--	--	2,989,015
07/11/23	*		84,420	608	--	--	--	--	--	2,989,017
07/12/23	*		84,443	608	--	--	--	--	--	2,989,019
07/13/23	Technician	1	84,467	633	3.8	130.0	6.2	55.4	0.0	2,989,022
07/14/23	*		84,490	633	--	--	--	--	--	2,989,024
07/15/23	*		84,514	633	--	--	--	--	--	2,989,026
07/16/23	*		84,538	633	--	--	--	--	--	2,989,028
07/17/23	*		84,562	633	--	--	--	--	--	2,989,030
07/18/23	*		84,585	633	--	--	--	--	--	2,989,032
07/19/23	*		84,609	633	--	--	--	--	--	2,989,034
07/20/23	Technician		84,633	609	3.1	100.0	--	55.9	0.0	2,989,036
07/21/23	*		84,655	609	--	--	--	--	--	2,989,038
07/22/23	*		84,677	609	--	--	--	--	--	2,989,040
07/23/23	*	2	84,700	609	--	--	--	--	--	2,989,042
07/24/23	Technician	3	84,722	656	3.0	132.0	--	110.5	0.0	2,989,044
07/25/23	*		84,694	656	--	--	--	--	--	2,989,042
07/26/23	*		84,708	656	--	--	--	--	--	2,989,043
07/27/23	*		84,722	656	--	--	--	--	--	2,989,044
07/28/23	*		84,756	656	--	--	--	--	--	2,989,047
07/29/23	*		84,789	656	--	--	--	--	--	2,989,051
07/30/23	*		84,823	656	--	--	--	--	--	2,989,054
07/31/23	*		84,856	656	--	--	--	--	--	2,989,057

Cumulative Mass TPHg Removed by the VES ^D (lb)			
Period	July	Quarter 3 to Date	April 1996 to Date
Mass	62	62	2,989,057

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

Legend / Notes:

- 1 = Collected monthly influent, after GAC-1, after GAC-2, and Effluent samples for laboratory analysis.
 - 2 = System auto shutdown due to suspected power failure.
 - 3 = VES restarted.
 - * = 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
 - scfm = Standard cubic feet per minute
 - A = Reading from chart recorder.
 - B = Concentrations obtained with a calibrated organic vapor analyzer.
 - C = Concentrations correlated to laboratory data and expressed as hexane.
 - D = Hydrocarbon removal is calculated using analytical laboratory result for GRO (if not detected, half the detection limit is used).
- in. Hg = Inches of mercury
 - °F = Degrees Fahrenheit
 - ppmv = Parts per million by volume
 - lb = Pounds

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

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow ^A (scfm)	VES Manifold Vacuum (in. Hg)	Carbon Inlet Temperature (°F)	Laboratory Process Concentration (ppmv)	Field Process Concentration ^{B,C} (ppmv)	Field Effluent Concentration ^{B,C} (ppmv)	Cumulative Vapor-Phase GRO Removed ^D (lb)
08/01/23	*		84,893	656	--	--	--	--	--	2,989,075
08/02/23	*		84,914	656	--	--	--	--	--	2,989,077
08/03/23	Technician		84,957	627	4.0	116.0	--	72.0	0.0	2,989,081
08/04/23	*		84,957	627	--	--	--	--	--	2,989,081
08/05/23	*		84,982	627	--	--	--	--	--	2,989,084
08/06/23	*		85,006	627	--	--	--	--	--	2,989,086
08/07/23	*		85,030	627	--	--	--	--	--	2,989,089
08/08/23	*		85,055	627	--	--	--	--	--	2,989,091
08/09/23	*		85,079	627	--	--	--	--	--	2,989,094
08/10/23	Technician		85,128	636	3.5	130.0	--	45.6	0.0	2,989,099
08/11/23	*		85,128	636	--	--	--	--	--	2,989,099
08/12/23	*		85,148	636	--	--	--	--	--	2,989,101
08/13/23	*		85,167	636	--	--	--	--	--	2,989,103
08/14/23	*		85,187	636	--	--	--	--	--	2,989,105
08/15/23	Technician	1	85,245	633	3.4	130.0	7.1	62.4	0.0	2,989,111
08/16/23	*		85,226	633	--	--	--	--	--	2,989,109
08/17/23	*		85,245	633	--	--	--	--	--	2,989,111
08/18/23	*		85,264	633	--	--	--	--	--	2,989,113
08/19/23	*		85,283	633	--	--	--	--	--	2,989,115
08/20/23	*		85,302	633	--	--	--	--	--	2,989,117
08/21/23	Technician		85,380	633	--	--	--	--	--	2,989,125
08/22/23	Technician		85,396	639	3.1	120.0	--	64.4	0.0	2,989,126
08/23/23	*		85,358	639	--	--	--	--	--	2,989,122
08/24/23	*		85,377	639	--	--	--	--	--	2,989,124
08/25/23	*		85,396	639	--	--	--	--	--	2,989,126
08/26/23	*		85,425	639	--	--	--	--	--	2,989,129
08/27/23	*		85,455	639	--	--	--	--	--	2,989,132
08/28/23	*		85,485	639	--	--	--	--	--	2,989,135
08/29/23	Technician		85,565	649	3.2	124.0	--	78.2	0.0	2,989,144
08/30/23	*		85,544	649	--	--	--	--	--	2,989,141
08/31/23	*		85,573	649	--	--	--	--	--	2,989,145

Cumulative Mass TPHg Removed by the VES ^A (lb)			
Period	August	Quarter 3 to Date	April 1996 to Date
Mass	88	150	2,989,145

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

Legend / Notes:

1 = 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

scfm = Standard cubic feet per minute °F = Degrees Fahrenheit

A = Reading from chart recorder.

B = Concentrations obtained with a calibrated organic vapor analyzer.

C = Concentrations correlated to laboratory data and expressed as hexane.

D = Hydrocarbon removal is calculated using analytical laboratory results for GRO (if not detected, half the detection limit is used).

ppmv = Parts per million by volume

lb = Pounds

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

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow ^A (scfm)	VES Manifold Vacuum (in. Hg)	Carbon Inlet Temperature (°F)	Laboratory Process Concentration (ppmv)	Field Process Concentration ^{B,C} (ppmv)	Field Effluent Concentration ^{B,C} (ppmv)	Cumulative Vapor-Phase GRO Removed ^D (lb)
09/01/23	*		85,636	649	--	--	--	--	--	2,989,151
09/02/23	*		85,660	649	--	--	--	--	--	2,989,152
09/03/23	*		85,684	649	--	--	--	--	--	2,989,154
09/04/23	*		85,708	649	--	--	--	--	--	2,989,156
09/05/23	*		85,732	649	--	--	--	--	--	2,989,158
09/06/23	*		85,756	649	--	--	--	--	--	2,989,160
09/07/23	Technician	1, 2	85,780	637	3.2	120.0	--	56.5	0.0	2,989,162
09/08/23	*		85,804	637	--	--	--	--	--	2,989,164
09/09/23	*		85,829	637	--	--	--	--	--	2,989,166
09/10/23	*		85,853	637	--	--	--	--	--	2,989,168
09/11/23	*		85,878	637	--	--	--	--	--	2,989,170
09/12/23	Technician		85,902	643	--	113.0	--	104.0	0.0	2,989,172
09/13/23	*		85,927	643	--	--	--	--	--	2,989,174
09/14/23	*		85,952	643	--	--	--	--	--	2,989,176
09/15/23	*		85,976	643	--	--	--	--	--	2,989,178
09/16/23	*		86,001	643	--	--	--	--	--	2,989,180
09/17/23	*		86,026	643	--	--	--	--	--	2,989,182
09/18/23	*		86,050	643	--	--	--	--	--	2,989,184
09/19/23	*		86,075	643	--	--	--	--	--	2,989,186
09/20/23	*		86,100	643	--	--	--	--	--	2,989,188
09/21/23	Technician	1, 2	86,124	643	--	--	--	--	--	2,989,190
09/22/23	Technician		86,142	638	3.1	122.0	--	49.6	0.0	2,989,192
09/23/23	*		86,166	638	--	--	--	--	--	2,989,194
09/24/23	*		86,189	638	--	--	--	--	--	2,989,196
09/25/23	*		86,213	638	--	--	--	--	--	2,989,198
09/26/23	Technician	3, 4	86,236	628	3.2	114.0	5.5	64.0	0.0	2,989,200
09/27/23	*		86,260	628	--	--	--	--	--	2,989,201
09/28/23	*		86,284	628	--	--	--	--	--	2,989,203
09/29/23	Technician	1, 2	86,308	628	--	--	--	--	--	2,989,205
09/30/23	*		86,333	628	--	--	--	--	--	2,989,207

Cumulative Mass TPHg Removed by the VES ^A (lb)			
Period	September	Quarter 3 to Date	April 1996 to Date
Mass	63	213	2,989,207

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

Legend / Notes :

- 1 = VES manually shut down for biosparge influence readings.
 - 2 = VES restarted.
 - 3 = Collected monthly influent, after GAC-1, after GAC-2, and Effluent samples for laboratory analysis.
 - 4 = Collected individual well vapor samples for laboratory analysis from HWs.
 - = 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
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 ^A		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
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 ^A		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
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 ^A		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
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 ^A		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	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
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 ^A		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	27	110	19	110	<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	29	120	22	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
04/20/22		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	306	34	140	25	140	<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
05/10/22		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	287	37	150	27	150	<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
06/16/22		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	306	23	95	17	95	<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
07/12/22		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	226	24	100	18	100	<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
08/08/22		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	216	21	87	16	87	<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
09/20/22		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	229	27	110	20	110	<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
11/10/22	27	HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	157	18	74	13	74	<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
12/14/22	28	HW-1, HW-9, HW-5, Trunkline #2	8015 & 8260B	48	6.1	25	5.5	25	<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
01/31/23	29	HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	392	27	110	25	110	<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
02/21/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	350	18	73	13	73	<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
03/13/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	201	14	58	11	58	0.09	0.28	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
04/19/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	263	22	88	16	88	<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
05/25/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	194	11	43	6.9	43	<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
06/08/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	160	9.3	38	6.2	38	<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
07/13/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	55	9.3	38	6.2	38	<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
08/15/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	62	11	43	7.1	43	<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
09/26/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	64	8.3	34	5.5	34	<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

ppmv = Parts per million by volume

GRO = Gasoline range organics

µg/L = Micrograms per liter

- Reported concentrations are shown in bold.

MTBE = Methyl tertiary-butyl ether

-- = Not available or not analyzed

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

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

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).

TABLE 4
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 ^A		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)

- 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.
- 27 = No sample collected for analysis during October 2022 due to system operation status.
- 28 = HW-7 closed 12/06/22 in advance of horizontal drilling activities.
- 29 = HW-7 opened 1/20/23 following drilling activities.

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

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow ^A (scfm)	VES Manifold Vacuum (in. WC)	Oxidizer Inlet Temperature TE1 Excess Controller (°F)	Laboratory Process GRO Concentration (ppmv)	Field Inlet Process Oxidizer Concentration ^{B,C} (ppmv)	Field Effluent Concentration ^{B,C} (ppmv)	Cumulative Vapor-Phase GRO Removed ^D (lb)
07/01/23	*		29,121	684	--	--	--	--	--	367,826
07/02/23	*		29,145	684	--	--	--	--	--	367,869
07/03/23	*		29,170	684	--	--	--	--	--	367,912
07/04/23	*		29,195	684	--	--	--	--	--	367,955
07/05/23	*		29,219	684	--	--	--	--	--	367,998
07/06/23	Technician		29,244	677	72	766	--	122	3	368,040
07/07/23	*		29,267	677	--	--	--	--	--	368,081
07/08/23	*		29,291	677	--	--	--	--	--	368,121
07/09/23	*		29,314	677	--	--	--	--	--	368,161
07/10/23	*		29,338	677	--	--	--	--	--	368,202
07/11/23	*		29,361	677	--	--	--	--	--	368,242
07/12/23	*		29,385	677	--	--	--	--	--	368,283
07/13/23	Technician	1	29,408	686	76	766	110	104	5	368,324
07/14/23	*		29,432	686	--	--	--	--	--	368,365
07/15/23	*		29,455	686	--	--	--	--	--	368,406
07/16/23	*		29,479	686	--	--	--	--	--	368,448
07/17/23	*		29,503	686	--	--	--	--	--	368,489
07/18/23	*		29,527	686	--	--	--	--	--	368,531
07/19/23	*		29,550	686	--	--	--	--	--	368,572
07/20/23	Technician		29,574	663	78	768	--	120	0	368,612
07/21/23	*		29,596	663	--	--	--	--	--	368,650
07/22/23	*		29,619	663	--	--	--	--	--	368,687
07/23/23	*		29,641	663	--	--	--	--	--	368,725
07/24/23	Technician		29,663	736	76	746	--	114	5	368,767
07/25/23	*		29,687	736	--	--	--	--	--	368,811
07/26/23	*		29,710	736	--	--	--	--	--	368,855
07/27/23	*		29,734	736	--	--	--	--	--	368,899
07/28/23	*		29,757	736	--	--	--	--	--	368,943
07/29/23	*		29,781	736	--	--	--	--	--	368,987
07/30/23	*		29,804	736	--	--	--	--	--	369,031
07/31/23	*		29,828	736	--	--	--	--	--	369,075

Cumulative Mass TPHg Removed by the VES ^D (lb)			
Period	July	Quarter 3 to Date	January 2018 to Date
Mass	1,292.4	1,292.4	376,916.1

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

Legend / Notes:

1 = 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-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 - August
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow ^A (scfm)	VES Manifold Vacuum (in. WC)	Oxidizer Inlet Temperature TE1 Excess Controller (°F)	Laboratory Process GRO Concentration (ppmv)	Field Inlet Process Oxidizer Concentration ^{B,C} (ppmv)	Field Effluent Concentration ^{B,C} (ppmv)	Cumulative Vapor-Phase GRO Removed ^D (lb)
08/01/23	*		29,851	736	--	--	--	--	--	369,285
08/02/23	*		29,875	736	--	--	--	--	--	369,350
08/03/23	Technician		29,898	597	84	770	--	122	4	369,402
08/04/23	*		29,922	597	--	--	--	--	--	369,457
08/05/23	*		29,947	597	--	--	--	--	--	369,512
08/06/23	*		29,971	597	--	--	--	--	--	369,566
08/07/23	*		29,996	597	--	--	--	--	--	369,621
08/08/23	*		30,020	597	--	--	--	--	--	369,676
08/09/23	*		30,045	597	--	--	--	--	--	369,730
08/10/23	Technician		30,069	605	88	763	--	156	3	369,786
08/11/23	*		30,093	605	--	--	--	--	--	369,839
08/12/23	*		30,116	605	--	--	--	--	--	369,893
08/13/23	*		30,140	605	--	--	--	--	--	369,946
08/14/23	*		30,163	605	--	--	--	--	--	370,000
08/15/23	Technician	1	30,187	560	88	763	160	154	1	370,049
08/16/23	*		30,209	560	--	--	--	--	--	370,096
08/17/23	*		30,232	560	--	--	--	--	--	370,143
08/18/23	*		30,254	560	--	--	--	--	--	370,190
08/19/23	*		30,276	560	--	--	--	--	--	370,236
08/20/23	*		30,299	560	--	--	--	--	--	370,283
08/21/23	Technician		30,321	560	--	--	--	--	--	370,330
08/22/23	Technician		30,337	687	82	765	--	106	1	370,371
08/23/23	*		30,361	687	--	--	--	--	--	370,433
08/24/23	*		30,385	687	--	--	--	--	--	370,496
08/25/23	*		30,409	687	--	--	--	--	--	370,558
08/26/23	*		30,434	687	--	--	--	--	--	370,620
08/27/23	*		30,458	687	--	--	--	--	--	370,682
08/28/23	*		30,482	687	--	--	--	--	--	370,744
08/29/23	Technician		30,506	709	83	767	--	116	2	370,808
08/30/23	*		30,530	709	--	--	--	--	--	370,872
08/31/23	*		30,554	709	--	--	--	--	--	370,935

Cumulative Mass TPHg Removed by the VES ^D (lb)			
Period	August	Quarter 3 to Date	January 2018 to Date
Mass	2,168.4	3,460.8	378,776.1

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

Legend / Notes:

1 = 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-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 - September
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow ^A (scfm)	VES Manifold Vacuum (in. WC)	Oxidizer Inlet Temperature TE1 Excess Controller (°F)	Laboratory Process GRO Concentration (ppmv)	Field Inlet Process Oxidizer Concentration ^{B,C} (ppmv)	Field Effluent Concentration ^{B,C} (ppmv)	Cumulative Vapor-Phase GRO Removed ^D (lb)
09/01/23	*		30,578	709	--	--	--	--	--	370,896
09/02/23	*		30,602	709	--	--	--	--	--	370,925
09/03/23	*		30,625	709	--	--	--	--	--	370,954
09/04/23	*		30,649	709	--	--	--	--	--	370,983
09/05/23	*		30,673	709	--	--	--	--	--	371,013
09/06/23	*		30,697	709	--	--	--	--	--	371,042
09/07/23	Technician	1, 2	30,721	694	98	770	--	100	1	371,070
09/08/23	*		30,744	694	--	--	--	--	--	371,098
09/09/23	*		30,767	694	--	--	--	--	--	371,125
09/10/23	*		30,790	694	--	--	--	--	--	371,153
09/11/23	*		30,813	694	--	--	--	--	--	371,180
09/12/23	Technician		30,836	730	83	763	--	305	1	371,209
09/13/23	*		30,859	730	--	--	--	--	--	371,238
09/14/23	*		30,882	730	--	--	--	--	--	371,268
09/15/23	*		30,906	730	--	--	--	--	--	371,297
09/16/23	*		30,929	730	--	--	--	--	--	371,326
09/17/23	*		30,952	730	--	--	--	--	--	371,355
09/18/23	*		30,975	730	--	--	--	--	--	371,385
09/19/23	*		30,999	730	--	--	--	--	--	371,414
09/20/23	*		31,022	730	--	--	--	--	--	371,443
09/21/23	Technician	1, 2	31,045	730	--	--	--	--	--	371,472
09/22/23	Technician		31,063	737	82	758	--	92	1	371,495
09/23/23	*		31,087	737	--	--	--	--	--	371,525
09/24/23	*		31,110	737	--	--	--	--	--	371,555
09/25/23	*		31,134	737	--	--	--	--	--	371,585
09/26/23	Technician	3, 4	31,157	713	82	758	75	94	2	371,613
09/27/23	*		31,181	713	--	--	--	--	--	371,642
09/28/23	*		31,204	713	--	--	--	--	--	371,672
09/29/23	Technician		31,228	713	--	--	--	--	--	371,701
09/30/23	*		31,252	713	--	--	--	--	--	371,730

Cumulative Mass TPHg Removed by the VES ^A (lb)			
Period	September	Quarter 3 to Date	January 2018 to Date
Mass	921.4	4,382.2	379,570.6

Legend / Notes:

- 1 = VES manually shut down for biosparge influence readings.
- 2 = VES restarted.
- 3 = Collected monthly influent and effluent samples for laboratory analysis.
- 4 = 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-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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
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 ^A		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)	(ppmv)	(µg/L)
01/11/18	1,2,3	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, RW-9, RW-13, RW-18 and RW-26	8015M & 8260M	1,942	370	1500	380	1,500	<0.16	<0.50	<0.12	<0.50	<0.55	<2.0	<0.13	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5		
03/14/18	2,4,5,6	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	8015M & 8260M	2,193	370	1500	380	1,500	0.41	1.3	<0.12	<0.50	<0.55	<2.0	<0.13	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5		
04/02/18	2	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	8015M & 8260M	1,370	1,700	7,100	1,800	7,100	4.1	13	0.28	1.2	<0.55	<2.0	<0.13	<0.50	<0.12	<0.50	0.76	3.3	<0.35	<1.5		
05/02/18	2	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	8015M & 8260M	1,380	780	3,200	820	3,200	3.0	9.6	<0.12	<0.50	<0.55	<2.0	<0.13	<0.50	<0.12	<0.50	0.28	1.2	<0.35	<1.5		
06/06/18	2,6,7	HW-1, HW-5, HW-7, VEW-39, RW-1, -4, -9, -10, -11, -13, -14 and -18	8015M & 8260M	1,531	1,000	4,100	990	4,100	4.1	13	0.17	0.72	<0.55	<2.0	<0.13	<0.50	<0.12	<0.50	0.53	2.3	<0.35	<1.5		
07/02/18	2,6	RW-1, -4, -5, -9, -10, -11, -13, -18, -22, -29, -23, -24, -26, -27, -28, -30, -31, -32, -33, -36, -37, -40, -41, -42, -43, -44, -45, -47, -48, -49, -50, VEW-40	8015M & 8260M	890	560	2,300	560	2,300	2.2	7.1	<0.23	<1.0	<1.1	<4.0	<0.27	<1.0	<0.23	<1.0	0.55	2.4	<0.35	<1.5		
08/06/18	2,6	RW-1, -4, -5, -9, -10, -11, -13, -18, -22, -29, -23, -24, -26, -27, -28, -30, -31, -32, -33, -36, -37, -40, -41, -42, -43, -44, -45, -47, -48, -49, -50, VEW-40	8015M & 8260M	876	710	2,900	710	2,900	0.88	2.8	0.23	1.0	<0.55	<2.0	0.58	2.2	0.25	1.1	0.92	4.0	<0.35	<1.5		
09/13/18	2,6	RW-1, -4, -5, -9, -10, -11, -13, -18, -22, -29, -23, -24, -26, -27, -28, -30, -31, -32, -33, -36, -37, -40, -41, -42, -43, -44, -45, -47, -48, -49, -50, VEW-40	8015M & 8260M	935	930	3,800	930	3,800	1.9	6.0	0.41	1.8	<0.28	<1.0	0.34	1.3	0.18	0.77	0.94	4.1	<0.35	<1.5		
10/29/18	2,6	RW-1, -4, -5, -9, -10, -11, -14, -18, -22, -23, -24, -26, -27, -28, -29, -30, -31, -32, -33, -35, -36, -37, -38, -40, -41, -42, -44, -45, -47, -48, -49, -50, VEW-40	8015M & 8260M	791	440	1,800	390	1,800	0.97	3.1	<0.12	<0.5	<0.55	<2.0	<0.13	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5		
11/14/18	2,6	RW-1, -4, -5, -9, -10, -11, -14, -18, -22, -23, -24, -26, -27, -28, -29, -30, -31, -32, -33, -35, -36, -37, -38, -40, -41, -42, -44, -45, -47, -48, -49, -50, VEW-40	8015M & 8260M	794	640	2,600	560	2,600	1.6	5.1	0.18	0.77	<0.55	<2.0	<0.13	<0.5	<0.12	<0.5	0.41	1.8	<0.35	<1.5		
12/17/18	2,6,8	RW-1, -4, -5, -9, -10, -11, -14, -18, -22, -23, -24, -26, -27, -28, -29, -30, -31, -32, -33, -35, -36, -37, -38, -40, -41, -42, -44, -45, -47, -48, -49, -50, VEW-40	8015M & 8260M	968	220	900	200	900	0.47	1.5	<0.12	<0.5	<0.55	<2.0	<0.13	<0.5	<0.12	<0.5	<0.23	<1.0	<0.38	<1.8		
03/19/19	2,6,9	RW-1, -4, -5, -9, -10, -11, -18, -22, -23, -24, -26, -27, -28, -29, -30, -31, -32, -33, -35, -37, -40, -41, -42, -43, -44, -45, -47, -48, -49, and -50; VEW-40; TFR-5, -7, -9, -10, -11, -13, -16, -19, -21, -24, -26, -28, -30, -35, -36, and -37	8015M & 8260M	766	270	1,100	240	1,100	0.72	2.3	<0.12	<0.50	<0.55	<2.0	<0.13	<0.50	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5		
04/03/19	2,6,9	RW-1, -4, -5, -9, -10, -11, -18, -22, -23, -24, -26, -27, -28, -29, -30, -31, -32, -33, -35, -37, -40, -41, -42, -43, -44, -45, -47, -48, -49, and -50; VEW-40; TFR-5, -7, -9, -10, -11, -13, -16, -19, -21, -24, -26, -28, -30, -35, -36, and -37	8015M & 8260M	1,984	210	860	190	860	0.28	0.91	<0.12	<0.50	<0.55	<2.0	<0.13	<0.50	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5		
04/22/19	2,6,9	RW-1, -4, -5, -9, -10, -11, -18, -22, -23, -24, -26, -27, -28, -29, -30, -31, -32, -33, -35, -37, -40, -41, -42, -43, -44, -45, -47, -48, -49, and -50; VEW-40; TFR-5, -7, -9, -10, -11, -13, -16, -19, -21, -24, -26, -28, -30, -35, -36, and -37	8015M & 8260M	2,410	660	2,700	600	2,700	2.9	9.2	0.28	1.2	<0.55	<2.0	<0.13	<0.50	0.13	0.58	0.41	1.8	0.54	2.38		
05/06/19	2,6,9	RW-1, -4, -5, -9, -10, -11, -18, -22, -23, -24, -26, -27, -28, -29, -30, -31, -32, -33, -35, -37, -40, -41, -42, -43, -44, -45, -47, -48, -49, and -50; VEW-40; TFR-5, -7, -9, -10, -11, -13, -16, -19, -21, -24, -26, -28, -30, -35, -36, and -37	8015M & 8260M	1,860	710	2,900	630	2,900	3.8	12	0.46	2.0	<0.55	<2.0	<0.13	<0.50	<0.12	<0.50	0.64	2.8	0.64	2.8		
06/06/19	2,6,9	RW-1, -4, -5, -9, -10, -11, -18, -22, -23, -24, -26, -27, -28, -29, -30, -31, -32, -33, -35, -37, -40, -41, -42, -43, -44, -45, -47, -48, -49, and -50; VEW-40; TFR-5, -7, -9, -10, -11, -12, -13, -14, -15, -16, -18, -19, -21, -22, -24, -26, -28, -29, -30, -32, -33, TF-17, TFR-18, TFR-19, TFR-22, TFR-25, TF-18, RTF-18-E, RTF-18-NW	8015M & 8260M	5,375	950	3,900	860	3,900	5.3	17	0.25	1.1	<0.55	<2.0	0.21	0.8	<0.12	<0.5	0.46	2.0	0.46	2.0		

TABLE 6
Summary of Analytical Vapor Sampling Results - Influent Thermal Oxidizer VES
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	VES Wells On Line	Laboratory Analysis Methods	GRO	GRO		VOCs as Hexane ^A		Benzene		Ethylbenzene		MTBE		Toluene		o-Xylene		m,p-Xylenes		Total Xylenes	
				Field OVA Reading	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
				(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-13), (RW-13), (RW-4, RW-5, RW-9, RW-10); Southern Area - (RW-23), (RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-24, RW-27, RW-33, RW-43), (RW-22, RW-29, RW-45), (RW-35, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	2,620	2,700	11,000	2,500	11,000	6.6	21	0.37	1.6	<0.55	<2.0	0.77	2.9	0.25	1.1	0.94	4.1	1.19	5.2
09/09/19	6	Central Area - (TFR-21, TFR-26, TFR-27, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13), (RW-4, RW-5, RW-9, RW-10); Southern Area - (RW-23), (RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-24, RW-27, RW-33, RW-43), (RW-22, RW-29, RW-45), (RW-35, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	2,180	2,300	9,600	2,100	9,600	5.0	16	1.0	4.4	<0.55	<2.0	0.72	2.7	0.28	1.2	1.6	6.9	7.18	8.1
10/31/19		Central Area - (TFR-21, TFR-26, TFR-27, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13, RW-14), (RW-4, RW-5, RW-9, RW-10); Southern Area - (RW-30, RW-31, RW-32), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	2,176	3,400	14,000	3,100	14,000	5.6	18	0.92	4.0	<0.55	<2.0	0.61	2.3	0.46	2.0	2.2	9.7	2.66	12
11/20/19		Central Area - (TFR-21, TFR-26, TFR-27, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13, RW-14), (RW-4, RW-5, RW-9, RW-10); Southern Area - (RW-30, RW-31, RW-32), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	1,290	3,200	13,000	2,800	13,000	2.0	6.5	0.83	3.6	<0.55	<2.0	0.53	2.0	0.39	1.7	1.3	5.8	1.69	7.5
12/16/19		Central Area - (TFR-21, TFR-26, TFR-27, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13, RW-14), (RW-4, RW-5, RW-9, RW-10); Southern Area - (RW-30, RW-31, RW-32), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	1,566	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-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-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-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-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-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
Summary of Analytical Vapor Sampling Results - Influent Thermal Oxidizer VES
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	VES Wells On Line	Laboratory Analysis Methods	GRO	GRO		VOCs as Hexane ^A		Benzene		Ethylbenzene		MTBE		Toluene		o-Xylene		m,p-Xylenes		Total Xylenes	
				Field OVA Reading	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
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); 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); 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-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-33), (RW-22, RW-29), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015 & 8260B	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
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 ^A		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
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 ^A		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

TABLE 6
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 ^A		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)
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
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	402	540	2,200	400	2,200	0.81	2.60	0.25	1.10	<0.28	<1.0	0.42	1.60	0.30	1.30	0.83	3.60	1.13	4.9
4/20/2022		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	310	370	1,500	280	1,500	0.41	1.30	0.21	0.93	<0.28	<1.0	0.24	0.89	0.25	1.10	0.62	2.70	0.87	3.8
5/10/2022		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	356	390	1,600	290	1,600	0.53	1.70	0.25	1.10	<0.28	<1.0	0.32	1.20	0.28	1.20	0.81	3.50	1.09	4.7
6/16/2022		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	290	370	1,500	270	1,500	0.41	1.30	0.17	0.72	<0.28	<1.0	0.29	1.10	0.21	0.90	0.58	2.50	0.79	3.4
7/12/2022		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	356	540	2,200	390	2,200	0.56	1.80	0.30	1.30	<0.28	<1.0	0.37	1.40	0.35	1.50	1.10	4.60	1.45	6.1
8/8/2022		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	292	290	1,200	220	1,200	0.41	1.30	0.18	0.76	<0.28	<1.0	0.18	0.69	0.16	0.70	0.53	2.30	0.69	3.0

TABLE 6
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 ^A		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)
9/20/2022		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-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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	130	370	1,500	270	1,500	0.56	1.80	0.18	0.80	<0.28	<1.0	0.20	0.74	0.20	0.87	0.55	2.40	0.75	3.27
10/26/2022		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-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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	320	370	1,500	270	1,500	0.41	1.30	0.14	0.61	<0.28	<1.0	0.09	0.32	0.13	0.58	0.37	1.60	0.5	2.18
11/10/2022		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-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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	234	290	1,200	210	1,200	0.41	1.30	0.12	0.52	<0.28	<1.0	0.10	0.37	0.12	0.54	0.37	1.60	0.49	2.14
12/14/2022		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-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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	294	290	1,200	270	1,200	0.28	0.89	0.15	0.66	<0.28	<1.0	0.07	0.28	0.13	0.56	0.35	1.50	0.48	2.06
2/21/2023		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-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	282	290	1,200	230	1,200	0.34	1.10	0.23	1.00	<0.28	<1.0	<0.066	<0.25	0.09	0.40	0.44	1.90	0.53	2.3
3/13/2023		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-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	247	220	910	170	910	0.23	0.72	0.11	0.47	<0.28	<1.0	<0.066	<0.25	<0.058	<0.25	0.23	1.00	0.26	1.13
4/19/2023		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-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	160	120	510	94	510	<0.078	<0.25	<0.058	<0.25	<0.28	<1.0	<0.066	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75
5/25/2023		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-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	157	220	900	150	900	0.14	0.46	0.088	0.38	<0.28	<1.0	0.080	0.30	0.078	0.34	0.23	1.00	0.26	1.13

TABLE 6
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 ^A		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)
6/8/2023		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-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	130	160	670	110	670	<0.078	<0.25	0.060	0.26	<0.28	<1.0	<0.066	<0.25	0.069	0.30	0.18	0.76	0.21	0.89
7/13/2023		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-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	104	170	680	110	680	0.12	0.38	0.088	0.38	<0.28	<1.0	<0.066	<0.25	0.130	0.55	0.30	1.30	0.33	1.43
8/15/2023		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-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	154	240	1,000	160	1,000	0.21	0.66	0.083	0.36	<0.28	<1.0	0.069	0.26	0.150	0.66	0.30	1.30	0.33	1.43
9/26/2023		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-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	94	110	460	75	460	0.08	0.25	<0.058	<0.25	<0.28	<1.0	<0.066	<0.25	<0.058	<0.25	0.15	0.64	0.18	0.77

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 - Third Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing ^A (gallons)	LNAPL Removed with Socks ^A (pounds)	LNAPL Removed with Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^{A, B} (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^{A, B} (pounds)
<i>End of Second Quarter 2023:</i>							150.1	1,027.2
07/25/23	34.50	33.43	0.10	0.0	2.4	0.4	150.5	1,029.6
08/10/23	34.36	30.82	0.03	0.0	0.9	0.1	150.6	1,030.5
09/13/23	--	25.94	--	0.0	0.0	0.0	150.6	1,030.5
Cumulative for the Reporting Period^A:				0.0	3.3	0.5	0.5	3.3
Cumulative Beginning January 2014^{A, B}:				112.0	264.1	38.6	150.6	1,030.5

Legend / Notes:

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

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

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

TABLE 7B
Summary of LNAPL Removal in Well GMW-68 - Third Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing ^A (gallons)	LNAPL Removed with Socks ^A (pounds)	LNAPL Removed with Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^{A, B} (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^{A, B} (pounds)
<i>End of Second Quarter 2023:</i>							101.5	694.5
07/25/23	--	33.26	--	0.0	1.3	0.2	101.7	695.8
08/10/23	--	31.02	--	0.0	0.0	0.0	101.7	695.8
09/13/23	--	23.98	--	0.0	0.0	0.0	101.7	695.8
Cumulative for the Reporting Period^A:				0.0	1.3	0.2	0.2	1.3
Cumulative Beginning October 2016^{A, B}:				33.5	466.6	68.2	101.7	695.8

Legend / Notes:

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

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

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

TABLE 7C
Summary of LNAPL Removal in Well GMW-7 - Third Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via, Pumping, Bailing and Socks ^A (pounds)
No Product Removal Via Bailing, Skimming, or Absorbant Socks During 3rd Quarter 2023								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning December 2014 ^A:				8.0	135.6	19.8	27.8	190.4

Legend / Notes:

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

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

TABLE 7D
Summary of LNAPL Removal in Well TF-19 - Third Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Pumping, Bailing and Socks ^A (pounds)
No Product Removal Via Bailing, Skimming, or Absorbant Socks During 3rd Quarter 2023								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning June 2015 ^A:				6.75	199.1	29.08	35.8	245.2

Legend / Notes:

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

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

TABLE 7E
Summary of LNAPL Removal in Well TFR-9 - Third Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
No Pumping/Skimming from Product Recovery System Well During 3rd Quarter 2023								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning October 2018 ^{A,B}:				150.0	0.0	0.0	150.0	1,026.5

Legend / Notes:

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

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

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

TABLE 7F
Summary of LNAPL Removal in Well GMW-18 - Third Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
No Pumping/Skimming from Product Recovery System Well During 3rd Quarter 2023								
Cumulative for the Reporting Period ^B:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning March 2017 ^A:				101.1	75.8	11.1	112.2	767.6

Legend / Notes:

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

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

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

TABLE 7G
Summary of LNAPL Removal in Well TFR-12 - Third Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
No Pumping/Skimming from Product Recovery System Well During 3rd Quarter 2023								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning April 2018 ^{A,B}:				284.3	0.0	0.0	284.3	1,945.7

Legend / Notes:

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

A = Cumulative LNAPL removed since April 2018 following installation of well during December 2017.

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of a product recovery system that started operating on August 8, 2016 (skimming from well TFR-12 initiated on April 23, 2018, and temporarily discontinued from September 5, 2018 to October 8, 2018 pending hookup to a new controller; Pump manually shutdown on March 11, 2019 due to insufficient yield and remained off-line through June 2019).

TABLE 7H
Summary of LNAPL Removal in Well TFR-14 - Third Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
No Pumping/Skimming from Product Recovery System Well During 3rd Quarter 2023								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning April 2018 ^{A,B}:				2.1	0.0	0.0	2.1	14.2

Legend / Notes:

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

A = Cumulative LNAPL removed since 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 - Third Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
No Pumping/Skimming from Product Recovery System Well During 3rd Quarter 2023								
Cumulative for the Reporting Period ^B:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning October 2016 ^A:				187.1	52.5	7.7	194.8	1,332.9

Legend / Notes:

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

A = Cumulative LNAPL removed since October 2016. No LNAPL removed previously during 2016 or throughout 2015 due to excavation project (January 2015 - March 2017) inadvertently resulting in burial of well head which was located during October 2016. LNAPL removed prior to well head being buried can be found in previously submitted Remediation Progress Reports.

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of expanded product recovery system operations that began on October 8, 2018 (skimming from well TF-15 initiated on October 8, 2018 but pump was manually shutdown on November 15, 2018 to allow for LNAPL recovery, and also operated from November 28, 2018 to March 11, 2019 and April 17, 2019 to May 2, 2019; Pump has otherwise remained off-line due to insufficient yield).

TABLE 7J
Summary of LNAPL Removal in Well TFR-15 - Third Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
No Pumping/Skimming from Product Recovery System Well During 3rd Quarter 2023								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning October 2018 ^{A,B}:				23.0	0.0	0.0	23.0	157.4

Legend / Notes:

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

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

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

TABLE 7K
Summary of LNAPL Removal in Well TF-16 - Third Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
No Pumping/Skimming from Product Recovery System Well During 3rd Quarter 2023								

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

Legend / Notes:

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

A = Cumulative LNAPL removed since October 2016. No LNAPL removed previously during 2016 or throughout 2015 due to excavation project (January 2015 - March 2017) inadvertently resulting in burial of well head which was located during October 2016. LNAPL removed prior to well head being buried can be found in previously submitted Remediation Progress Reports.

B = Well hooked up to product recovery system on March 3, 2017 (i.e., all LNAPL removed subsequent to this date achieved via pumping) with skimmer manually shutdown on March 28, 2018 to allow for LNAPL recovery; Operations resumed on an intermittent basis starting on July 19, 2018, and regularly from September 19, 2018 to October 3, 2018, and again from December 14, 2018 to March 11, 2019 and May 2-6, 2019. Pump has otherwise remained off-line due to insufficient yield.

TABLE 7L
Summary of LNAPL Removal in Well GW-14R - Third Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
No Pumping/Skimming from Product Recovery System Well During 3rd Quarter 2023								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning October 2018 ^{A,B}:				360.0	0.0	0.0	360.0	2,463.6

Legend / Notes:

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

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

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

TABLE 7M
Summary of LNAPL Removal in Well TFR-18 - Third Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
No Pumping/Skimming from Product Recovery System Well During 3rd Quarter 2023								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning October 2018 ^{A,B}:				18.1	0.0	0.0	18.1	124.2

Legend / Notes:

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

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

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

TABLE 7N
Summary of LNAPL Removal in Well TFR-22 - Third Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
<i>End of Second Quarter 2023:</i>							374.5	2,562.7
07/25/23	--	33.39	--	0.0	3.0	0.4	374.9	2,565.7
08/10/23	--	33.35	--	0.0	2.0	0.3	375.2	2,567.7
09/13/23	--	32.62	--	0.0	3.4	0.5	375.7	2,571.1
Cumulative for the Reporting Period:				0.0	8.4	1.2	1.2	8.4
Cumulative Beginning October 2018 ^{A,B}:				372.8	20.2	3.0	375.7	2,571.1

Legend / Notes:

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

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

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

TABLE 70
Summary of LNAPL Removal in Well TFR-24 - Third Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
<i>End of Second Quarter 2023:</i>							117.8	805.9
07/25/23	--	32.81	0.00	0.0	3.4	0.5	118.3	809.3
08/10/23	--	32.78	0.00	0.0	4.6	0.7	118.9	813.9
09/13/23	--	31.70	0.00	0.0	3.9	0.6	119.5	817.8
Cumulative for the Reporting Period:				0.0	11.9	1.7	1.7	11.9
Cumulative Beginning October 2018 ^{A,B}:				110.1	64.5	9.4	119.5	817.8

Legend / Notes:

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

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

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

TABLE 7P
Summary of LNAPL Removal in Well TFR-29 - Third Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing ^A (gallons)	LNAPL Removed with Socks ^A (pounds)	LNAPL Removed with Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^{A,B} (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^{A,B} (pounds)
<i>End of Second Quarter 2023:</i>							986.8	6,752.8
07/25/23	32.48	32.52	0.04	0.0	4.8	0.7	987.5	6,757.6
08/10/23	--	32.78	0.00	0.0	3.9	0.6	988.1	6,761.5
09/13/23	--	33.20	0.00	0.0	4.9	0.7	988.8	6,766.4
Cumulative for the Reporting Period^A:				0.0	13.6	2.0	2.0	13.6
Cumulative Beginning April 2018^{A,B,C,D}:				981.9	47.1	6.9	988.8	6,766.4

Legend / Notes:

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

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

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

C = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of a product recovery system that started operating on August 8, 2016 (skimming from well TFR-29 initiated on April 23, 2018, and temporarily discontinued from September 5, 2018 to October 8, 2018 pending hookup to a new controller).

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

TABLE 7Q
Summary of LNAPL Removal in Well TFR-33 - Third Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
No Pumping/Skimming from Product Recovery System Well During 3rd Quarter 2023								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning October 2018 ^{A,B}:				123.0	0.0	0.0	123.0	841.7

Legend / Notes:

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

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

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

TABLE 7R
Summary of LNAPL Removal in Well RTF-18-E - Third Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
<i>End of Second Quarter 2023:</i>							685.4	4,690.1
07/25/23	--	32.35	0.00	0.0	0.6	0.1	685.4	4,690.7
08/10/23	--	32.64	0.00	0.0	2.8	0.4	685.9	4,693.5
09/13/23	--	32.02	0.00	0.0	1.6	0.2	686.1	4,695.1

Cumulative for the Reporting Period:	0.0	5.0	0.7	0.7	5.0
Cumulative Beginning May 2016 - July 2016 ^A:	47.5	0.0	0.0	47.5	325.1
Cumulative Beginning August 2016 - September 2019 ^B:	593.4	0.0	0.0	593.4	4,061.5
Cumulative Beginning May 2016 ^A:	679.1	48.1	7.0	686.1	4,695.1

Legend / Notes:

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

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

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

* = Well RTF-18-E was off-line from February 15, 2017 to October 4, 2017 to allow for LNAPL recovery which continued to be adequate for effective removal via skimming until March 15, 2018 when the pump was again shutdown and remained off-line until December 27, 2018 (pumping resumed until February 27, 2019 with no subsequent operations through June 2019 based on regular gauging data showing little to no measureable product in the well); pump shutdown on February 14, 2020 due to insufficient yield.

TABLE 7S
Summary of LNAPL Removal in Well RTF-18-NW - Third Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
No Pumping/Skimming from Product Recovery System Well During 3rd Quarter 2023								

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

Legend / Notes:

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

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

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

* = Well RTF-18-NW was off-line from February 15, 2017 to August 10, 2017 to allow for LNAPL recovery which continued to be adequate for effective removal via skimming until March 11, 2019 with no subsequent operations through June 2019 based on regular gauging data showing little to no measureable product in the well.

TABLE 7T
Summary of LNAPL Removal in Well RTF-18-N - Third Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
No Pumping/Skimming from Product Recovery System Well During 3rd Quarter 2023								

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

Legend / Notes:

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

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

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

* = Well RTF-18-N was off-line from September 14, 2016 to October 10, 2017, and November 7, 2017 to January 7, 2018, to allow for LNAPL recovery (pumping resumed until February 27, 2019 with no subsequent operations through June 2019 based on regular gauging data showing little to no measureable product in the well).

TABLE 7U
Summary of LNAPL Removal in Well TF-18 - Third Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
No Pumping/Skimming from Product Recovery System Well During 3rd Quarter 2023								

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

Legend / Notes:

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

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

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of a product recovery system that started operating on August 8, 2016 (skimming initially isolated to well TF-18 for testing purposes with other wells coming online August 11, 2016).

* = Product recovery system off-line from January 9-27, 2017 due to full storage tank, and well TF-18 resumed operating after tank was emptied until February 8, 2017 when skimmer was manually shutdown to allow for LNAPL recovery (pumping resumed from August 10, 2017 to January 25, 2019 with no subsequent operations through June 2019 based on regular gauging data showing little to no measureable product in the well).

TABLE 7V
Summary of LNAPL Removal in Well RTF-18-NNW - Third Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
No Pumping/Skimming from Product Recovery System Well During 3rd Quarter 2023								

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

Legend / Notes:

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

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

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of a product recovery system that started operating on August 8, 2016 (skimming from well RTF-18-NNW initiated on September 14, 2016 (off-line since January 9, 2017).

* = Product recovery system off-line from January 9-27, 2017 due to full storage tank, and well RTF-18-NNW has since remained off-line to allow for LNAPL recovery which decreased from January 2017 to March 2017 with no measurable product from early March 2017 through mid-September 2017, and less than 0.3 foot at the end of 2017 (note that product thicknesses temporarily exhibited a further increasing overall trend during 2018 that has since reversed with little to no measurable product since late February 2019).

TABLE 7W
Summary of LNAPL Removal in Well RTF-18-W - Third Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
No Pumping/Skimming from Product Recovery System Well During 3rd Quarter 2023								

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

Legend / Notes:

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

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

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

* = Well RTF-18-W was off-line from December 9, 2016 to October 10, 2017 to allow for LNAPL recovery which continued to be adequate for effective removal via skimming until April 4, 2019 when the pump was again shutdown and remained off-line through June 2019 based on regular gauging data showing little to no measureable product in the well.

TABLE 8
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

TABLE 8
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)
09/13/11		--	--	--	--	5.0	<0.50	0.37	3.4	0.99	<10	1.3	<2.0	<2.0	<2.0
09/22/11		--	--	--	--	5.5	<0.50	0.92	7.2	1.6	5.6	1.1	<2.0	<2.0	<2.0
10/19/11		--	--	--	--	8.2	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<2.0	<2.0	<2.0
01/20/12		--	--	--	--	14	<0.50	2.8	7.8	1.2	16	1.3	0.42	<2.0	<2.0
02/03/12		--	--	120	340	--	--	--	--	--	--	--	--	--	--
02/17/12		--	--	--	--	10	<0.50	1.5	7.4	1.2	15	1.2	0.39	<2.0	<2.0
02/24/12		--	--	180	--	26	<0.50	1.0	7.0	1.2	<10	1.2	0.41	<2.0	<2.0
03/02/12		--	--	--	--	23	<0.50	1.4	11	2.4	8.7	1.4	0.47	<2.0	<2.0
03/06/12		--	--	--	--	28	<0.50	1.0	9.0	1.7	13	1.1	0.37	<2.0	<2.0
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

TABLE 8
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)
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
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

TABLE 8
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)
07/11/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	330	<40	4.7	<0.30	<0.20	<0.40	<0.30	<7.0	0.79 J	<0.50	<0.40	<0.30
08/01/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	3.7	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
09/01/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	2.7	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
10/12/16	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	230	<40	4.5	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
11/01/16	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	120	52 J	3.1	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
12/05/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	450	51 J	<0.20	<0.30	<0.20	<0.40	<0.30	<7.0	0.60 J	<0.50	<0.40	<0.30
01/09/17		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	150	<40	4.4	<0.30	<0.20	<0.40	<0.30	<7.0	0.58 J	<0.50	<0.40	<0.30
02/06/17	6	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	110	<40	3.5	<0.30	0.41 J	0.60 J	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
03/15/17	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	68 J	<40	4.3	<0.30	<0.20	<0.40	<0.30	<7.0	0.60 J	<0.50	<0.40	<0.30
04/05/17	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	74 J	<40	8.4	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
05/03/17		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	72 J	<40	4.3	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
06/05/17		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	62 J	<40	5.0	<0.30	<0.20	0.50 J	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
07/19/17	5	GW-2, GW-15, GW-16	8015M & 8260B	75 J	<40	3.4	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
08/02/17		GW-2, GW-15, GW-16	8015M & 8260B	80 J	<40	4.0	<0.30	<0.20	<0.40	<0.30	<7.0	0.88 J	<0.50	<0.40	<0.30
09/13/17		GW-2, GW-15, GW-16	8015M & 8260B	84 J	<40	<0.20	<0.30	<0.20	<0.40	<0.30	<7.0	0.69 J	<0.50	<0.40	<0.30
10/16/17		GW-2, GW-15, GW-16	8015M & 8260B	64 J	<40	3.7	<0.30	<0.20	<0.40	<0.30	<7.0	0.54 J	<0.50	<0.40	<0.30
11/13/17		GW-2, GW-15, GW-16	8015M & 8260B	78 J	<40	4.5	<0.30	<0.20	<0.40	<0.30	<7.0	0.54 J	<0.50	<0.40	<0.30
12/11/17	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	2.8	<0.30	<0.20	<0.40	<0.30	8.8 J	<0.40	<0.50	<0.40	<0.30
01/11/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	73 J	<40	2.0	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
02/26/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	130	<40	5.3	<0.30	<0.20	<0.40	<0.30	<7.0	0.49 J	<0.50	<0.40	<0.30
03/20/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	4.4	<0.30	<0.20	<0.40	<0.30	<7.0	0.47 J	<0.50	<0.40	<0.30
04/02/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	65 J	<40	2.9	<0.30	<0.20	<0.40	<0.30	<7.0	0.50 J	<0.50	<0.40	<0.30

TABLE 8
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)
05/02/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	130	<40	2.5	<0.30	<0.20	<0.40	<0.30	<7.0	0.74 J	<0.50	<0.40	<0.30
06/04/18		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	0.74	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
07/02/18	7,8	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	1.1	<0.30	<0.20	<0.40	<0.30	<7.0	0.41 J	<0.50	<0.40	<0.30
08/06/18		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	3.1	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
09/13/18		GW-2, GW-15, GW-16	8015M & 8260B	<60	<40	0.38 J	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
10/29/18		GW-15, GW-16	8015M & 8260B	<60	<40	2.4	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
11/14/18		GW-15, GW-16	8015M & 8260B	<60	<40	2.0	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
12/17/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 624	170	<100	<0.5	<2.0	<2.0	<2.0	<2.0	<10	<2.0	<2.0	<2.0	<2.0
01/08/19		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	--	<40	1.4	<0.30	<0.20	<0.40	<0.30	<7.0	0.92 J	<0.50	<0.40	<0.30
02/06/19	9	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	1.4	<0.30	<0.20	0.52 J	<0.30	<7.0	0.49 J	<0.50	<0.40	<0.30
01/30/20	10,11	GW-13, GW-15, GW-16	8015B	790	--	--	--	--	--	--	--	--	--	--	--
03/11/20	10,11	GW-15, GW-16	8015B & EPA 624	370	--	<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	610	490	46	<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	850	640	79	<5.0	<5.0	<10	<5.0	12	6.4	<5.0	<1.0	<1.0
07/24/20	12	GW-16, GMW-31, GW-14R	8015B & EPA 624	1,000	150	6.2	<5.0	<5.0	<10	<5.0	18	<5.0	<5.0	<1.0	<1.0
11/24/20	12	GW-16, GMW-31, GW-14R	8015B & EPA 624	430	190	5.3	<5.0	<5.0	<10	<5.0	12	<5.0	<5.0	<1.0	<1.0
01/28/21	13	GW-16, GMW-31, GW-14R	8015B & EPA 624	860	410	34	<5.0	<5.0	<10	<5.0	25	<5.0	<5.0	<1.0	<1.0
02/10/21		GW-16, GMW-31, GW-14R	8015B & EPA 624	1,500	740	48	<5.0	<5.0	<10	<5.0	30	5.2	<5.0	<1.0	<1.0
05/05/21		GW-16, GMW-31, GW-14R	8015B & EPA 624	470	190	8.6	<5.0	<5.0	<10	<5.0	14	<5.0	<5.0	<1.0	<1.0
06/11/21		GW-16, GMW-31, GW-14R	8015B & EPA 624	540	260	7.0	<5.0	<5.0	<10	<5.0	17	<5.0	<5.0	<1.0	<1.0
07/09/21		GW-16, GMW-31, GW-14R	8015B & EPA 624	480	250	6.2	<5.0	<5.0	<10	<5.0	21	<5.0	<5.0	<1.0	<1.0

TABLE 8
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)
08/18/21		GW-16, GMW-31, GW-14R	8015B & EPA 624	500	110	<5.0	<5.0	<5.0	<10	<5.0	26	<5.0	<5.0	<1.0	<1.0
09/27/21		GMW-31, GW-14R	8015B & EPA 624	800	220	<5.0	<5.0	<5.0	<10	<5.0	33	<5.0	<5.0	<1.0	<1.0
10/20/21		GMW-31, GW-14R	8015B & EPA 624	760	140	<5.0	<5.0	<5.0	<10	<5.0	36	<5.0	<5.0	<1.0	<1.0
11/10/21		GW-16, GMW-31, GW-14R	8015B & EPA 624	550	<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	620	120	<5.0	<5.0	<5.0	<10	<5.0	39	<5.0	<5.0	<1.0	<1.0
01/19/22		GW-16, GW-14R	8015B & EPA 624	830	210	<5.0	<5.0	<5.0	<10	<5.0	36	<5.0	<5.0	<1.0	<1.0
02/16/22		GW-16, GW-14R	8015B & EPA 624	420	55	<5.0	<5.0	<5.0	<10	<5.0	46	<5.0	<5.0	<1.0	<1.0
03/09/22		GW-16, GW-14R	8015B & EPA 624	460	67	<5.0	<5.0	<5.0	<10	<5.0	42	<5.0	<5.0	<1.0	<1.0
04/28/22		GW-16, GMW-31, GW-14R	8015B & EPA 624	490	<50	<5.0	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<1.0	<1.0
05/11/22		GW-16, GMW-31, GW-14R	8015B & EPA 624	470	<50	<5.0	<5.0	<5.0	<10	<5.0	58	<5.0	<5.0	<1.0	<1.0
06/16/22		GW-16, GMW-31	8015B & EPA 624	47	<50	<5.0	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<1.0	<1.0
09/28/22	14,15	GW-16, GMW-31, GW-14R	8015B & EPA 624	340	<50	<5.0	<0.5	<5.0	<10	<5.0	49	<5.0	<5.0	<1.0	<1.0
10/26/22		GW-16, GW-14R	8015B & EPA 624	430	<50	<5.0	<0.5	<5.0	<10	<5.0	29	<5.0	<5.0	<1.0	<1.0
11/29/22		GW-16, GMW-31, GW-14R	8015B & EPA 624	360	<50	<5.0	<0.5	<5.0	<10	<5.0	10	<5.0	<5.0	<1.0	<1.0
12/21/22		GW-16, GMW-31, GW-14R	8015B & EPA 624	1,200	<50	<5.0	<0.5	<5.0	<10	<5.0	<10	<5.0	<5.0	<1.0	<1.0
01/23/23		GW-16, GMW-31, GW-14R	8015B & EPA 624	610	<50	<5.0	<0.5	<5.0	<10	<5.0	16	<5.0	<5.0	<1.0	<1.0
02/15/23		GW-16, GMW-31, GW-14R	8015B & EPA 624	730	56	<5.0	<0.5	<5.0	<10	<5.0	22	<5.0	<5.0	<1.0	<1.0
03/22/23		GW-16, GMW-31, GW-14R	8015B & EPA 624	380	<50	<5.0	<0.5	<5.0	<10	<5.0	26	<5.0	<5.0	<1.0	<1.0
04/19/23		GW-16, GMW-31, GW-14R	8015B & EPA 624	650	61	<5.0	<0.5	<5.0	<10	<5.0	29	<5.0	<5.0	<1.0	<1.0
05/24/23		GW-16, GMW-31, GW-14R	8015B & EPA 624	350	<50	<5.0	<0.5	<5.0	<10	<5.0	34	<5.0	<5.0	<1.0	<1.0
06/08/23		GW-16, GMW-31, GW-14R	8015B & EPA 624	340	<50	<5.0	<0.5	<5.0	<10	<5.0	35	<5.0	<5.0	<1.0	<1.0
07/21/23		GW-16, GMW-31, GW-14R	8015B & EPA 624	1,000	68	<5.0	<0.5	<5.0	<10	<5.0	35	<5.0	<5.0	<1.0	<1.0

TABLE 8
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)
08/16/23		GW-16, GMW-31, GW-14R	8015B & EPA 624	1,000	<50	<5.0	<0.5	<5.0	<10	<5.0	<10	<5.0	<5.0	<1.0	<1.0
09/27/23		GW-16, GMW-31, GW-14R	8015B & EPA 624	270	<50	<5.0	<0.5	<5.0	<10	<5.0	12	<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

MTBE = Methyl tertiary-butyl ether

TBA = tertiary-Butyl alcohol

DIPE = Diisopropyl ether

ETBE = Ethyl tertiary-butyl ether

TPHg = Total petroleum hydrocarbons as gasoline

TAME = tertiary-Amyl-methyl ether

µg/L = Micrograms per liter

-- = Not available or not analyzed

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

14 = GWETS manually shut down 6/24/22 due to naturally occurring sludge clogging pumps in extraction wells.

15 = GWETS restarted on 9/9/22 following chemical treatment and installation of new pumps in extraction wells.

TABLE 9A
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	--	--

TABLE 9A
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
03/02/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	400	--	360	180	--	--
04/06/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	420	--	260	220	--	--
05/04/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	400	--	240	180	--	--
06/17/16	6	HW-1, HW-3, HW-5	740	--	470	330	--	--
07/06/16	6,10	HW-1, HW-3, HW-5	480	--	340	220	--	--
08/05/16	6	HW-1, HW-3, HW-5	240	4	190	230.0	--	--
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	--	--

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

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Depth for Horizontal Wells or Interval in Feet Below Grade for Vertical Wells					
			HW-1	HW-3 **	HW-5	HW-7 **	HW-8	HW-9
			25	25	25	25	60	220
05/02/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	140	--	120	200	--	--
06/06/18	15	HW-1, HW-5, HW-7, VEW-39, RW-1, -4, -9, -10, -11, -13, -14 and -18	100	--	80	160	--	--
06/27/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through -50	--	--	--	--	--	--
07/16/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through -50	--	--	--	--	--	--
07/30/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through -50	--	--	--	--	--	--
08/29/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through -50	--	--	--	--	--	--
12/03/18	15	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW- 22, -24, -26, -27 -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	--	--	--	--	--	--
01/25/19	15	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW- 22, -24, -26, -27 -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	1,127	--	375	474	--	--
02/12/19	15	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW- 22, -24, -26, -27 -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	1,845	--	696	718	--	--
03/06/19	15	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW- 22, -24, -26, -27 -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	1,309	--	1,115	939	--	--
03/12/19	15,17	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW- 22, -24, -26, -27 -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	--	--	--	--	--	--
03/20/19	15	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW- 22, -24, -26, -27 -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	591	--	234	730	--	--
03/26/19	15	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW- 22, -24, -26, -27 -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	--	--	--	--	--	--
04/09/19	15,18	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW- 22, -24, -26, -27 -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	>15,000	--	1,541	1,725	--	--
11/25/19	19,20	HW-1, HW-5, HW-7, HW-8, HW-9	730	--	501	730	--	1,820
12/16/19		HW-1, HW-5, HW-7, HW-8, HW-9	4,900	--	1,336	1,215	431	1,375
01/15/20		HW-1, HW-5, HW-7, HW-8, HW-9	184	--	6	10	976	22
02/05/20		HW-1, HW-5, HW-7, HW-8, HW-9	371	--	5	124	6	843
02/14/20		HW-1, HW-5, HW-7, HW-8, HW-9	397	--	24	366	4	805
02/18/20		HW-1, HW-5, HW-7, HW-8, HW-9	139	--	4	149	3	530

TABLE 9A
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
02/27/20		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
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

TABLE 9A
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
7/7/21		HW-1, HW-9, HW-5, HW-7	79	--	37	153	--	613
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
1/11/22		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
2/9/22		HW-1, HW-9, HW-5, HW-7	22	--	6	930	--	514

TABLE 9A
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
3/21/22		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
4/6/22		HW-1, HW-9, HW-5, HW-7	32	--	4	550	--	626
4/13/22		HW-1, HW-9, HW-5, HW-7	37	--	13	486	--	568
4/26/22		HW-1, HW-9, HW-5, HW-7	30	--	66	595	--	653
5/3/22		HW-1, HW-9, HW-5, HW-7	44	--	57	628	--	483
5/10/22		HW-1, HW-9, HW-5, HW-7	41	--	55	373	--	754
5/17/22		HW-1, HW-9, HW-5, HW-7	32	--	68	973	--	1,281
5/27/22		HW-1, HW-9, HW-5, HW-7	19	--	4	618	--	693
6/3/22		HW-1, HW-9, HW-5, HW-7	22	--	37	1,392	--	860
6/9/22		HW-1, HW-9, HW-5, HW-7	28	--	43	1,275	--	885
6/16/22		HW-1, HW-9, HW-5, HW-7	14	--	55	1,809	--	464
7/1/22		HW-1, HW-9, HW-5, HW-7	20	--	4	1,576	--	672
7/12/22		HW-1, HW-9, HW-5, HW-7	30	--	25	1,303	--	463
7/29/22		HW-1, HW-9, HW-5, HW-7	47	--	62	553	--	386
8/1/22		HW-1, HW-9, HW-5, HW-7	13	--	10	19	--	468
8/8/22		HW-1, HW-9, HW-5, HW-7	12	--	6	53	--	420
8/18/22		HW-1, HW-9, HW-5, HW-7	14	--	11	73	--	526
8/30/22		HW-1, HW-9, HW-5, HW-7	18	--	11	65	--	412
9/7/22		HW-1, HW-9, HW-5, HW-7	9	--	4	95	--	417
9/15/22		HW-1, HW-9, HW-5, HW-7	9	--	28	273	--	>15000
9/16/22		HW-1, HW-9, HW-5, HW-7	--	--	--	--	--	12,400
9/20/22		HW-1, HW-9, HW-5, HW-7	12	--	13	161	--	1,269
9/29/22		HW-1, HW-9, HW-5, HW-7	9	--	19	163	--	385

TABLE 9A
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
10/6/22		HW-1, HW-9, HW-5, HW-7	8	--	26	186	--	342
10/11/22		HW-1, HW-9, HW-5, HW-7	19	--	22	--	--	324
11/10/22		HW-1, HW-9, HW-5, HW-7	26	--	2	275	--	281
11/18/22		HW-1, HW-9, HW-5, HW-7	30	--	24	314	--	390
12/1/22		HW-1, HW-9, HW-5, HW-7	27	--	22	337	--	415
12/6/22	23	HW-1, HW-9, HW-5	17	--	23	--	--	303
1/6/23		HW-1, HW-9, HW-5	10	--	2	--	--	1,150
1/20/23	24	HW-1, HW-9, HW-5, HW-7	10	--	16	15,000	--	15,000
1/31/23		HW-1, HW-9, HW-5, HW-7	0	--	0	386	--	284
2/10/23		HW-1, HW-9, HW-5, HW-7	22	--	15	41	--	867
2/17/23		HW-1, HW-9, HW-5, HW-7	--	--	--	--	--	--
2/21/23		HW-1, HW-9, HW-5, HW-7	62	--	17	14	--	2,080
3/2/23		HW-1, HW-9, HW-5, HW-7	97	--	99	131	--	1,853
3/9/23		HW-1, HW-9, HW-5, HW-7	43	--	41	160	--	1,231
3/13/23		HW-1, HW-9, HW-5, HW-7	20	--	4	213	--	1,115
3/23/23		HW-1, HW-9, HW-5, HW-7	22	--	31	14	--	382
3/30/23		HW-1, HW-9, HW-5, HW-7	28	--	24	14	--	201
4/6/23		HW-1, HW-9, HW-5, HW-7	24	--	26	10	--	172
4/14/23		HW-1, HW-9, HW-5, HW-7	21	--	28	17	--	205
4/27/23		HW-1, HW-9, HW-5, HW-7	49	--	12	13	--	13
5/4/23		HW-1, HW-9, HW-5, HW-7	36	--	16	10	--	98
5/11/23		HW-1, HW-9, HW-5, HW-7	21	--	7	4	--	8
6/1/23		HW-1, HW-9, HW-5, HW-7	18	--	4	3	--	8
6/23/23	25	HW-1, HW-9, HW-5, HW-7	14	--	23	11	--	795
7/13/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	6	--	22	11	--	398
7/20/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	11	--	2	1	--	35
7/24/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	--	--	--	--	--	--
8/3/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	11	--	18	13	--	122
8/10/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	--	--	--	--	--	--

TABLE 9A
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
8/15/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	24	--	12	9	--	24
8/22/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8	--	2	21	--	3
8/29/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	10	--	3	34	--	3
9/7/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	--	--	--	--	--	--
9/12/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	30	--	9	9	--	14
9/22/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	11	--	2	15	--	4
9/26/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	7	--	1	28	--	2

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.
- 23 = Closed off HW-7 due to horizontal well drilling activities.
- 24 = Opened HW-7 following drilling activities.
- 25 = Opened new Trunklines 6 & 7 to the Thermox VES

* = 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
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 13-33	TFR-26 13-33	TFR-27 13-33	TFR-28 13-33	TFR-34 13-33	TF-18 13-33	RTF-18-E 13-33	RTF-18-W 13-33	RTF-18-NW 13-33	RTF-18-NNW 13-33	TFR-20 13-33	TFR-23 13-33	TFR-24 13-33	TFR-30 13-33	TFR-33 13-33	TFR-29 13-33	TFR-32 13-33	TFR-35 13-33	TFR-36 13-33	TFR-37 13-33	TFR-17 14-33	TFR-18 15-33	TFR-19 16-33	TFR-22 17-33	TFR-25 18-33	TFR-11 13-33	TFR-13 13-33	TFR-14 14-33	TFR-15 15-33	TFR-16 13-33	TFR-5 13-33	TFR-7 13-33	TFR-9 13-33	TFR-10 13-33	TFR-12 14-33			
06/27/18	1.2	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
7/16/2018	1.2	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
7/30/2018	1.2	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
08/30/18	1.2	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/03/18	1.2	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03/28/19	1.2	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/03/19	1.2	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, -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, VEW-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	13,650	--	--	5	--	4	--	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-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12)	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	24,000	5,960	3,730	22,400	68	144	28	118	5,180	3,608	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-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-16), (TFR-5, TFR-7, TFR-9, TFR-10, 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, RFR-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, RFR-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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, RFR-19, TFR-22, TFR-25), (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, RFR-19, TFR-22, TFR-25), (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, RFR-19, TFR-22, TFR-25), (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
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 13-33	TFR-26 13-33	TFR-27 13-33	TFR-28 13-33	TFR-34 13-33	TF-18 13-33	RTF-18-E 13-33	RTF-18-W 13-33	RTF-18-NW 13-33	RTF-18-NNW 13-33	TFR-20 13-33	TFR-23 13-33	TFR-24 13-33	TFR-30 13-33	TFR-33 13-33	TFR-29 13-33	TFR-32 12-33	TFR-35 13-33	TFR-36 13-33	TFR-37 13-33	TFR-17 14-33	TFR-18 15-33	TFR-19 16-33	TFR-22 17-33	TFR-25 18-33	TFR-11 13-33	TFR-13 13-33	TFR-14 14-33	TFR-15 15-33	TFR-16 13-33	TFR-5 13-33	TFR-7 13-33	TFR-9 13-33	TFR-10 13-33	TFR-12 14-33
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
08/15/22		(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).	2,734	688	376	404	92	76	1,234	1,894	342	716	0	2	224	94	9,330	6,160	--	--	--	--	310	94	214	12,150	3,170	--	386	68	56	--	--	24	128	--	94

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 SGI's July 2018 *Well Installation Completion Report*.
 2 = See Tables 9A, 9C and 9D for applicable HW, VEW 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
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		

TABLE 9C
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	
07/06/16	6,10	HW-1, HW-3, HW-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
08/05/16	6	HW-1, HW-3, HW-5	--	--	--	--	--	20	8.3	--	--	--	140	34	--	--	--	11	9.0	--	--	--	--	--	--		
09/01/16	6,10	HW-1, HW-3, HW-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
10/20/16	4,6,10,11	HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	32	6.4	--	--	--	80	30	--	--	--	9.1	7.3	--	--	--	--	--	--		
11/01/16	6,10	HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
12/05/16	4,6,10	HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	20	7.1	--	--	--	60	20	--	--	--	17	8.8	--	--	--	--	--	--		
01/09/17	6,10	HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
02/06/17	4,6,10	HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	12	5.4	--	--	--	45	14	--	--	--	11	6.1	--	--	--	--	--	--		
03/20/17	12	HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
04/17/17		HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
05/03/17		HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	15	6.7	--	--	--	33	19	--	--	--	17	8.1	--	--	--	--	--	--		
06/05/17		HW-1, HW-3, HW-5	--	--	--	--	--	10	11	--	--	--	14	12	--	--	--	8.0	7.1	--	--	--	--	--	--		
07/19/17	13	HW-5, HW-7 and VEW-39	--	--	--	--	--	12	4.8	--	--	--	47	6.2	--	--	--	9.3	4.1	--	--	--	--	--	--		
08/09/17	1,2,3	HW-1, HW-5, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	1,268	--	--	--	--	5.5	5.4	16	120	--	27	3.7	--	76	374	7.7	2.3	2,440	--	--	--	--	1,164		
09/07/17	2,3	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	3,860	--	--	--	--	9.2	10	99	495	--	20	14	--	90	679	11	5.5	2,870	--	--	--	--	320		
10/12/17	2,3	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	2,480	--	--	--	--	13	12	75	310	--	28	19	--	120	580	14	9.3	2,620	--	--	--	--	660		
11/02/17	2,2	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	3,140	--	--	--	--	10	9.1	50	225	--	23	15	--	140	430	11	6.6	3,200	--	--	--	--	840		
12/11/17	2,3	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	2,250	--	--	--	--	7.7	9.1	60	180	--	20	8.8	--	80	350	9.3	5.1	3,040	--	--	--	--	590		
03/14/18	4,5	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	2,520	15	12	40	28	7.2	4.3	31	181	420	2.4	0.4	5.1	5.5	937	8.1	7.3	2,000	1,235	68	598	4,600	2,824	>10,000	
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	

TABLE 9C
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
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		
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	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		
08/17/22		(RW-1), (RW-13), (RW-3, RW-4, RW-9, RW-10)	190	--	--	--	--	--	--	--	--	--	--	--	--	--	--	22	--	2	10	--	646	24		

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
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	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-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	
			13-33	13-33	13-33	13-33	13-33	13-33	13-33	13-33	13-33	13-33	13-33	13-33	13-33	14-33	15-33	13-33	13-33	13-33	15-33	13-33	13-33	13-33	13-33	13-33	13-33	15-33	13-33	13-33	13-33	15-33	13-33	13-33	13-33	15-33	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, -8, -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	641	2,359	674	
12/03/18	3	HW-1, HW-5, HW-7, RW-1, -4, -5, -8, -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, -8, -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, -8, -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, -8, -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	161	--	--	--	493	223	--	--	--	--	--	--	--	--	--	--	--	--	42	--	--	
06/05/19		HW-1, HW-5, HW-7, RW-1, -4, -5, -8, -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	581	--	
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	3,880	145	--	75	205	61	--	--	634	311	65	123	--	--	203	224	461	245	1,743	1,465	--	383	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-33), (RW-35, RW-40, RW-44), (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-33), (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-38, 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-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)	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-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)	--	--	--	388	254	186	--	--	1,720	354	1,860	--	--	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-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)	--	--	--	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-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)	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-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)	--	--	--	242	184	116	18	--	1,115	302	2,352	--	--	--	--	--	--	--	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-33), (RW-22, RW-29), (RW-35, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	0	0	0	6	0	0	0	2	12	0	2	0	0	0	0	0	0	0	64	8	0	2	2	0	2	2	96	94	1,156	394	8	166	462	0	104	

TABLE 9D
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	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-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
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-35, 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-33), (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-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	--	--	--	--	--	--	--	2	738	68	636	--	--	--	60	--	--	--	--	--	10	--	--	--	64	--	184	87	688	362	--	10	18	2	34
08/02/21		(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	
08/04/22		(RW-30), (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)	--	--	--	122	--	--	--	--	440	40	200	--	--	--	82	--	--	--	--	--	10	--	--	48	--	70	142	598	336	--	68	12	4	70	

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 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 8A, 8B and 8C for applicable HW, VEW and RW on line well field vapor readings.
 4 = Wells RW-20 through RW-24, RW-26, and RW-28 through RW-33 disconnected from carbon VES and tied into thermal oxidizer VES upon 01/08/18 startup (see SGI's May 15, 2018 Remediation Status Report - First Quarter 2018 for details).
 5 = Wells RW-19, RW-25, RW-27, RW-34, and RW-39 through RW-46 tied into thermal oxidizer VES during late June 2018 following installation per SGI's July 2018 Well Installation Completion Report.
 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
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
	05/10/22			41	6.8	28	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0
	08/08/22			12	<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
	11/10/22			26	5.4	22	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0
	02/21/23			62	<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
	06/08/23			-	<4.9	<20	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
09/26/23		6.5	<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-3 *	07/09/14	1		20	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0
	10/23/14			20	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0
	04/27/15			138	66	270	0.28	0.9	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	08/10/15			28	7.3	30	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	01/18/17	2		17	8.5	30	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
HW-5	07/09/14	1		140	46	190	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0
	10/23/14			2.9	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0
	04/27/15			400	290	1,200	0.17	0.55	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	0.30	1.3	<0.55	<2.0
	08/10/15			676	930	3,800	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	02/08/16			300	320	1,300	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	04/06/16			260	210	870	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
08/08/16			190	120	480	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	

TABLE 10
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	01/18/17	2	8015 & 8260B	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
HW-5	02/12/18		8015 & 8260B	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			4.0	<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			7.5	<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			5.7	<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
	07/07/21			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			7.0	<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
	05/10/22			55	<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
	08/08/22			5.7	<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
	11/10/22			1.7	<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
02/21/23	17	<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			
06/08/23	--	<4.9	<20	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0			
09/26/23	1.2	<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	8015 & 8260B	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			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			

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

Well ID	Sample Date	Notes	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		MTBE	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
HW-7 *	11/05/20		8015 & 8260B	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
	05/10/22			373	160	640	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0
	08/08/22			53	78	320	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0
	11/10/22			275	100	420	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0
	02/21/23			14	<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
	06/08/23			--	<4.9	<20	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
09/26/23		28	11	46	<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-8	11/25/19	8	8015 & 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/18/20			3	<4.9	<20	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	05/15/20			7	<4.9	<20	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	08/24/20			15	<4.9	<20	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	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
	06/08/23			--	95	390	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
HW-9	11/25/19	8	8015 & 8260B	1,820	390	1,600	<0.16	<0.5	<0.13	<0.50	0.25	1.1	0.35	1.50	0.94	4.10	<0.55	<2.0
	02/18/20			530	320	1,300	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	05/15/20			1,058	510	2,100	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	08/24/20			7,848	560	2,300	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	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
	05/10/22			754	190	790	<0.078	<0.25	<0.066	<0.25	0.092	0.40	<0.058	<0.25	0.16	0.70	<0.28	<1.0
	08/08/22			420	190	770	<0.078	<0.25	<0.066	<0.25	0.064	0.28	<0.058	<0.25	0.14	0.60	<0.28	<1.0
	11/10/22			281	110	470	<0.078	<0.25	<0.066	<0.25	0.060	0.26	<0.058	<0.25	0.12	0.52	<0.28	<1.0
	02/21/23			2,080	10	41	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0
	06/08/23			--	<4.9	<20	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
09/26/23		2	<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		
VEW-32	07/09/14	1	8015 & 8260B	154	132	540	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0
	10/23/14			191	19	76	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0
	04/27/15			210	320	1,300	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	08/10/15			456	460	1,900	0.66	2.1	<0.13	<0.50	0.23	1.0	<0.12	<0.50	0.46	2.0	<0.55	<2.0
	02/08/16			160	130	550	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	04/06/16			60	17	68	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/17			9.0	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0

TABLE 10
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-33	07/09/14	1	8015 & 8260B	10	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0
	10/23/14			22	6.6	27	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0
	04/27/15			324	270	1,100	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	08/10/15			334	290	1,200	0.50	1.6	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	0.32	1.4	<0.55	<2.0
	02/08/16			220	270	1,100	0.38	1.2	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	04/06/16			380	340	1,400	0.50	1.6	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	0.25	1.1	<0.55	<2.0
	06/27/17			5.8	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
VEW-34	07/09/14	1	8015 & 8260B	4.2	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0
	10/23/14			8.0	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0
	04/27/15			115	44	180	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	08/10/15			63	14	57	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/17			7.0	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
VEW-35	07/09/14	1	8015 & 8260B	5.5	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0
	10/23/14			28	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0
	04/27/15			4.8	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	08/10/15			16.4	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/17			4.5	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
VEW-36	07/09/14	1	8015 & 8260B	6.4	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0
	10/23/14			9.1	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0
	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	8015 & 8260B	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	8015 & 8260B	331	37	150	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	07/27/17			--	490	2,000	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	09/07/17			480	440	1,800	<0.16	<0.50	<0.13	<0.50	0.17	0.74	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/18	4	51	8.3	34	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
VEW-39	06/27/17	3	8015 & 8260B	130	37	150	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	07/27/17			--	1,100	4,300	0.41	1.3	<0.13	<0.50	0.78	3.4	<0.12	<0.50	0.62	2.7	<0.55	<2.0
	09/07/17			190	29	120	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
VEW-40	06/27/17	3	8015 & 8260B	3,018	2,700	11,000	0.28	0.88	<0.13	<0.50	0.99	4.3	<0.12	<0.50	0.81	3.5	<0.55	<2.0
	07/27/17			--	8,800	36,000	1.4	4.4	<0.13	<0.50	8.5	37	0.23	1.0	5.3	23	<0.55	<2.0
	09/07/17			9,200	7,600	31,000	0.97	3.1	<0.13	<0.50	3.7	16	0.25	1.1	2.2	9.0	<0.55	<2.0
	06/27/18	4	5,100	2,900	12,000	<0.78	<2.5	<0.78	<2.5	0.78	3.4	<0.58	<2.5	<1.2	<5.0	<2.8	<10	

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

Well ID	Sample Date	Notes	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		MTBE	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
RW-1	08/09/17	5	8015 & 8260B	1,268	1,100	4,400	1.7	5.4	3.7	14	0.85	3.7	0.55	2.4	2.5	11	<0.55	<2.0
	09/07/17			3,860	2,300	9,600	6.3	20	16	60	2.8	12	2.0	8.9	7.4	32	<0.55	<2.0
RW-2	08/09/17	5		16	39	160	0.19	0.61	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	03/14/18			31	22	92	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-3	03/14/18	6		68	37	150	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-4	03/14/18	6		598	460	1,900	1.8	5.9	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-5	03/14/18	6		4,600	2,900	12,000	1.7	5.5	<0.13	<0.50	0.78	3.4	0.18	0.76	2.5	11	<0.55	<2.0
RW-7	08/09/17	5		120	320	1,300	<0.16	<0.50	0.14	0.53	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	03/14/18			54	64	260	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-9	08/09/17	5		1,164	1,100	4,500	0.44	1.4	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	09/07/17			320	240	1,000	0.75	2.4	<0.13	<0.50	0.19	0.83	<0.12	<0.50	0.41	1.8	<0.55	<2.0
	03/14/18			2,824	2,000	8,100	18	59	<0.13	<0.50	5.1	22	3.0	13	9.4	41	<0.55	<2.0
RW-10	03/14/18	6		>10,000	14,000	58,000	14	45	<0.13	<0.50	0.69	3.0	0.53	2.3	5.8	25	<0.55	<2.0
RW-11	03/14/18	6		420	230	950	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-12	08/09/17	5		76	100	420	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	03/14/18			5.5	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-13	08/09/17	5		2,440	1,800	7,400	1.6	5.0	<0.13	<0.50	0.22	0.95	0.28	1.2	1.7	7.4	<0.55	<2.0
	09/07/17			2,870	1,800	7,400	5.9	19.0	<0.13	<0.50	1.8	7.9	1.5	6.4	6.4	28	<0.55	<2.0
	03/14/18			2,000	7,300	30,000	9.1	29	<0.13	<0.50	0.64	2.8	0.46	2.0	1.8	7.6	<0.55	<2.0
RW-14	03/14/18	6		1,235	950	3,900	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-18	08/09/17	5		374	170	700	1.3	4.2	<0.13	<0.50	0.32	1.4	0.28	1.2	1.2	5.3	<0.55	<2.0
	09/07/17			679	320	1,300	2.2	7.1	0.7	3	0.62	2.7	0.53	2.3	2.2	9.6	<0.55	<2.0
	03/14/18			937	490	2,000	1.4	4.4	<0.13	<0.50	<0.12	<0.50	0.25	1.1	0.76	3.3	<0.55	<2.0
RW-19	06/27/18	4		43	4.9	20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-20	08/16/17	5		129	73	300	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	09/07/17		58	61	250	<0.16	<0.50	<0.13	<0.50	0.16	0.69	<0.12	<0.50	0.32	1.4	<0.55	<2.0	
RW-21	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	
	08/09/17		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	
RW-22	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	
	08/16/17		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	
RW-23	09/07/17	5	1,379	1,200	5,000	0.44	1.4	<0.13	<0.50	2.2	9.5	0.48	2.1	3.2	14	<0.55	<2.0	
	06/27/18		2,595	1,200	4,800	<0.78	<2.5	<0.66	<2.5	<0.58	<2.5	<0.58	<2.5	<1.2	<5.0	<2.8	<10	
RW-24	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-25	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	
RW-25	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	

TABLE 10
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-26	08/09/17	5	8015 & 8260B	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	<1.0
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	<1.0
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	<1.0
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
RW-30	06/27/18	4		32	13	54	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-31	08/09/17	5		7,165	6,800	28,000	1.2	3.9	0.20	0.76	3.2	14	1.6	7.1	3.7	16	<0.55	<2.0
	09/07/17			3,400	2,900	12,000	0.4	1.4	<0.13	<0.50	3.0	13	1.1	4.9	2.3	10	<0.55	<2.0
	06/27/18	4		80	12	51	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-32	08/16/17	5		820	880	3,600	<0.16	<0.50	<0.13	<0.50	0.78	3.4	<0.12	<0.50	0.28	1.2	<0.55	<2.0
	09/07/17			715	810	3,300	0.17	0.54	<0.13	<0.50	0.55	2.4	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/18	4		421	66	270	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-33	08/16/17	5		1,230	860	3,500	<0.16	<0.50	<0.13	<0.50	0.44	1.9	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	09/07/17			836	640	2,600	<0.16	<0.50	<0.13	<0.50	0.35	1.5	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/18	4		843	210	840	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-34	06/27/18	4		46	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-35	06/27/18	4		416	83	340	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-36	06/27/18	4		452	440	1,800	<0.78	<2.5	<0.66	<2.5	<0.58	<2.5	<0.58	<2.5	<1.2	<5.0	<2.8	<1.0
RW-37	06/27/18	4		1,509	210	850	<0.31	<1.0	<0.27	<1.0	<0.23	<1.0	<0.23	<1.0	<0.46	<2.0	<1.1	<4.0
RW-38	06/27/18	4		134	24	100	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-39	06/27/18	4		24	37	150	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-40	06/27/18	4		1,782	2,900	12,000	<0.78	<2.5	<0.66	<2.5	0.78	3.4	<0.58	<2.5	<1.2	<5.0	<2.8	<1.0
RW-41	06/27/18	4		849	1,300	5,300	<0.78	<2.5	<0.66	<2.5	<0.58	<2.5	<0.58	<2.5	<1.2	<5.0	<2.8	<1.0
RW-42	06/27/18	4		3,040	1,500	6,200	<0.78	<2.5	<0.66	<2.5	<0.58	<2.5	<0.58	<2.5	<1.2	<5.0	<2.8	<1.0
RW-43	06/27/18	4		886	230	950	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-44	06/27/18	4		728	88	360	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	2.2	9.4	0.60	2.6	<0.55	<2.0
RW-45	06/27/18	4		56	14	57	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	0.12	0.50	<0.23	<1.0	<0.55	<2.0
RW-46	06/27/18	4		191	44	180	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-47	06/27/18	4		751	240	1,000	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-48	06/27/18	4		1,454	540	2,200	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-49	06/27/18	4		823	180	720	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-50	06/27/18	4		5,000	1,600	6,500	<0.78	<2.5	<0.66	<2.5	1.2	5.0	<0.58	<2.5	<1.2	<5.0	<2.8	<1.0

TABLE 10
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)
RTF-18-NW	10/05/17	7	8015 & 8260B	9,000	16,000	67,000	100	330	0.18	0.66	12	52	13	56	60	260	<0.55	<2.0
	10/09/17	7		3,635	18,000	72,000	170	550	<1.3	<5.0	17	75	19	83	92	400	<5.5	<20

Legend / Notes:

GRO = Gasoline range organics

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

MTBE = Methyl tertiary-butyl ether

ppmv = Parts per million by volume

µg/L = Micrograms per liter

<0.6 = Not detected at or above the method reporting limit (MRL) shown.

-- = Not measured

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

1 = Samples collected following system restart (off line since manual shut down on 05/29/14).

2 = Field OVA reading from 01/09/17.

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

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

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

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

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

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

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

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

Date	Data Source	Notes	Cumulative Blower Runtime (hours)	Blower Discharge Pressure (psig)	Blower Discharge Temperature (°F)	HE Outlet Temperature (°F)	Main Header Pressure (psig)	Sparge Total Flow-dP (in WC)	Sparge Total Pressure (psig)	Sparge Total Temperature (°F)
07/01/23	Offline		25,801.3	--	--	--	--	--	--	--
07/02/23	Offline		25,801.3	--	--	--	--	--	--	--
07/03/23	Offline		25,801.3	--	--	--	--	--	--	--
07/04/23	Offline		25,801.3	--	--	--	--	--	--	--
07/05/23	Offline		25,801.3	--	--	--	--	--	--	--
07/06/23	Offline		25,801.3	--	--	--	--	--	--	--
07/07/23	Offline		25,801.3	--	--	--	--	--	--	--
07/08/23	Offline		25,801.3	--	--	--	--	--	--	--
07/09/23	Offline		25,801.3	--	--	--	--	--	--	--
07/10/23	Technician	1	25,815.4	111	95	94	12	4.0	10	95
07/11/23	*		25,836.4	--	--	--	--	--	--	--
07/12/23	*		25,824.8	--	--	--	--	--	--	--
07/13/23	Technician		25,878.4	120	99	92	12	--	12	92
07/14/23	*		25,903.9	--	--	--	--	--	--	--
07/15/23	*		25,929.4	--	--	--	--	--	--	--
07/16/23	*		25,954.8	--	--	--	--	--	--	--
07/17/23	*		25,980.3	--	--	--	--	--	--	--
07/18/23	*		26,005.8	--	--	--	--	--	--	--
07/19/23	*		26,031.3	--	--	--	--	--	--	--
07/20/23	*		26,056.7	--	--	--	--	--	--	--
07/21/23	*		26,082.2	--	--	--	--	--	--	--
07/22/23	*		26,107.7	--	--	--	--	--	--	--
07/23/23	*		26,133.2	--	--	--	--	--	--	--
07/24/23	*		26,158.6	--	--	--	--	--	--	--
07/25/23	*		26,184.1	--	--	--	--	--	--	--
07/26/23	*		26,209.6	--	--	--	--	--	--	--
07/27/23	*		26,235.1	--	--	--	--	--	--	--
07/28/23	*		26,260.5	--	--	--	--	--	--	--
07/29/23	*		26,286.0	--	--	--	--	--	--	--
07/30/23	*		26,311.5	--	--	--	--	--	--	--
07/31/23	*		26,337.0	--	--	--	--	--	--	--

Legend / Notes:

1 = Biosparge system restarted.

psig = pounds per square inch
 in. WC = inches of water column
 °F = Degrees Fahrenheit
 NA = Not available
 HE = Heat Exchanger
 -- = Not applicable or not measured
 * = Operational values interpolated from chart recorder data or previous monitoring event.

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

Date	Data Source	Notes	Cumulative Blower Runtime (hours)	Blower Discharge Pressure (psig)	Blower Discharge Temperature (°F)	HE Outlet Temperature (°F)	Main Header Pressure (psig)	Sparge Total Flow (in WC)	Sparge Total Pressure (psig)	Sparge Total Temperature (°F)
08/01/23	*		26,268.4	--	--	--	--	--	--	--
08/02/23	*		26,288.9	--	--	--	--	--	--	--
08/03/23	Technician		26,309.4	114	75	85	15	10.0	15.0	85
08/04/23	*		26,326.7	--	--	--	--	--	--	--
08/05/23	*		26,344.1	--	--	--	--	--	--	--
08/06/23	*		26,361.4	--	--	--	--	--	--	--
08/07/23	*		26,378.7	--	--	--	--	--	--	--
08/08/23	*	1	26,396.1	--	--	--	--	--	--	--
08/09/23	Technician		26,413.4	122	118	--	--	12.0	--	85
08/10/23	*		26,434.9	--	--	--	--	--	--	--
08/11/23	*		26,456.4	--	--	--	--	--	--	--
08/12/23	*		26,477.9	--	--	--	--	--	--	--
08/13/23	*		26,499.4	--	--	--	--	--	--	--
08/14/23	*		26,520.9	--	--	--	--	--	--	--
08/15/23	Technician		26,542.4	110	85	80	13	4.0	13.0	80
08/16/23	*		26,563.5	--	--	--	--	--	--	--
08/17/23	*		26,584.7	--	--	--	--	--	--	--
08/18/23	*		26,605.8	--	--	--	--	--	--	--
08/19/23	*		26,627.0	--	--	--	--	--	--	--
08/20/23	*		26,648.1	--	--	--	--	--	--	--
08/21/23	*		26,669.3	--	--	--	--	--	--	--
08/22/23	Technician		26,690.4	120	157	90	14	--	--	84
08/23/23	*		26,713.1	--	--	--	--	--	--	--
08/24/23	*		26,735.9	--	--	--	--	--	--	--
08/25/23	*		26,758.6	--	--	--	--	--	--	--
08/26/23	*		26,781.3	--	--	--	--	--	--	--
08/27/23	*		26,804.0	--	--	--	--	--	--	--
08/28/23	*		26,826.8	--	--	--	--	--	--	--
08/29/23	*		26,849.5	--	--	--	--	--	--	--
08/30/23	*		26,872.2	--	--	--	--	--	--	--
08/31/23	*		26,894.9	--	--	--	--	--	--	--

Legend / Notes:

1 = Trunkline groupings and run times adjusted for system optimization.

psig = pounds per square inch
 in. WC = inches of water column
 °F = Degrees Fahrenheit
 NA = Not available
 HE = Heat Exchanger
 -- = Not applicable or not measured
 * = Operational values interpolated from chart recorder data or previous monitoring event.

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

Date	Data Source	Notes	Cumulative Blower Runtime (hours)	Blower Discharge Pressure	Blower Discharge Temperature (°F)	HE Outlet Temperature (°F)	Main Header Pressure (psig)	Sparge Total Flow (in WC)	Sparge Total Pressure (psig)	Sparge Total Temperature (°F)
09/01/23	*		26,917.7	--	--	--	--	--	--	--
09/02/23	*		26,940.4	--	--	--	--	--	--	--
09/03/23	*		26,963.1	--	--	--	--	--	--	--
09/04/23	*		26,985.9	--	--	--	--	--	--	--
09/05/23	*		27,008.6	--	--	--	--	--	--	--
09/06/23	*		27,031.3	--	--	--	--	--	--	--
09/07/23	*		27,054.0	--	--	--	--	--	--	--
09/08/23	*		27,076.8	--	--	--	--	--	--	--
09/09/23	*		27,099.5	--	--	--	--	--	--	--
09/10/23	*		27,122.2	--	--	--	--	--	--	--
09/11/23	*		27,144.9	--	--	--	--	--	--	--
09/12/23	*		27,167.7	--	--	--	--	--	--	--
09/13/23	Technician		27,190.4	130	156	72	15	2.0	--	--
09/14/23	*		27,210.0	--	--	--	--	--	--	--
09/15/23	*		27,229.5	--	--	--	--	--	--	--
09/16/23	*		27,249.1	--	--	--	--	--	--	--
09/17/23	*		27,268.6	--	--	--	--	--	--	--
09/18/23	*		27,288.2	--	--	--	--	--	--	--
09/19/23	*		27,307.7	--	--	--	--	--	--	--
09/20/23	*		27,327.3	--	--	--	--	--	--	--
09/21/23	*		27,346.8	--	--	--	--	--	--	--
09/22/23	Technician		27,366.4	125	80	74	18	--	--	--
09/23/23	*		27,384.7	--	--	--	--	--	--	--
09/24/23	*		27,403.0	--	--	--	--	--	--	--
09/25/23	*		27,421.3	--	--	--	--	--	--	--
09/26/23	*		27,439.5	--	--	--	--	--	--	--
09/27/23	*		27,457.8	--	--	--	--	--	--	--
09/28/23	*		27,476.1	--	--	--	--	--	--	--
09/29/23	*		27,494.4	--	--	--	--	--	--	--
09/30/23	*		27,512.7	--	--	--	--	--	--	--

Legend / Notes:

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

August 03, 2023

Neil Irish

The Source Group, Inc. (SH)

1962 Freeman Ave.

Signal Hill, CA 90755

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

A5335116 / 3G13003

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 07/13/23 15:24 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'V. Vasile', written over a light grey circular stamp.

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: A5335116
Date Received: 07/13/23
Date Reported: 08/03/23

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

VES After GAC-1	3G13003-01	Vapor	5	07/13/23 08:43	07/13/23 15:24
VES After GAC-2	3G13003-02	Vapor	5	07/13/23 08:45	07/13/23 15:24

VOCs Gasoline Range Organics Vapor

VES After GAC-1	3G13003-01	Vapor	5	07/13/23 08:43	07/13/23 15:24
VES After GAC-2	3G13003-02	Vapor	5	07/13/23 08:45	07/13/23 15:24

VOCs in Vapor as Hexane

VES After GAC-1	3G13003-01	Vapor	5	07/13/23 08:43	07/13/23 15:24
VES After GAC-2	3G13003-02	Vapor	5	07/13/23 08:45	07/13/23 15:24

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5335116
Date Received: 07/13/23
Date Reported: 08/03/23
Sampled: 07/13/23
Prepared: 07/14/23
Analyzed: 07/14/23

VES After GAC-1
3G13003-01 (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	95.5 %	70-140
Dibromofluoromethane	100 %	70-140
Toluene-d8	91.6 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5335116
Date Received: 07/13/23
Date Reported: 08/03/23
Sampled: 07/13/23
Prepared: 07/14/23
Analyzed: 07/14/23

VES After GAC-2
3G13003-02 (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	96.5 %	70-140
Dibromofluoromethane	102 %	70-140
Toluene-d8	91.3 %	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: A5335116
Date Received: 07/13/23
Date Reported: 08/03/23
Sampled: 07/13/23
Prepared: 07/13/23
Analyzed: 07/13/23

VES After GAC-1

3G13003-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	29	ug/L	20	7.1	ppmv	4.9
Surrogates		%REC				%REC Limits
a,a,a-Trifluorotoluene		93.4 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5335116
Date Received: 07/13/23
Date Reported: 08/03/23
Sampled: 07/13/23
Prepared: 07/13/23
Analyzed: 07/13/23

VES After GAC-2

3G13003-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
Surrogates		%REC				%REC Limits
a,a,a-Trifluorotoluene		98.8 %				70-130

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5335116
Date Received: 07/13/23
Date Reported: 08/03/23
Units: ppmv

Date Sampled:	07/13/23	07/13/23	
Date Prepared:	07/13/23	07/13/23	
Date Analyzed:	07/13/23	07/13/23	
AA ID No:	3G13003-01	3G13003-02	
Client ID No:	VES After GAC-1	VES After GAC-2	
Matrix:	Vapor	Vapor	
Dilution Factor:	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: A5335116
Date Received: 07/13/23
Date Reported: 08/03/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B3G1403 - *** DEFAULT PREP ***</i>										
Blank (B3G1403-BLK1)				Prepared & Analyzed: 07/14/23						
Benzene	<0.50	0.50	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	47.9		ug/L	50.0		95.8	70-140			
<i>Surrogate: Dibromofluoromethane</i>	47.8		ug/L	50.0		95.6	70-140			
<i>Surrogate: Toluene-d8</i>	48.0		ug/L	50.0		96.1	70-140			
LCS (B3G1403-BS1)				Prepared & Analyzed: 07/14/23						
Benzene	21.2	0.50	ug/L	20.0		106	75-125			
Ethylbenzene	20.8	0.50	ug/L	20.0		104	75-125			
Methyl-tert-Butyl Ether (MTBE)	38.7	2.0	ug/L	40.0		96.7	75-125			
Toluene	20.4	0.50	ug/L	20.0		102	75-125			
o-Xylene	20.1	0.50	ug/L	20.0		100	75-125			
m,p-Xylenes	40.4	1.0	ug/L	40.0		101	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	48.9		ug/L	50.0		97.9	70-140			
<i>Surrogate: Dibromofluoromethane</i>	49.0		ug/L	50.0		98.1	70-140			
<i>Surrogate: Toluene-d8</i>	46.7		ug/L	50.0		93.5	70-140			
LCS Dup (B3G1403-BSD1)				Prepared & Analyzed: 07/14/23						
Benzene	19.5	0.50	ug/L	20.0		97.6	75-125	8.11	30	
Ethylbenzene	19.6	0.50	ug/L	20.0		97.8	75-125	6.19	30	
Methyl-tert-Butyl Ether (MTBE)	43.6	2.0	ug/L	40.0		109	75-125	11.9	30	
Toluene	19.2	0.50	ug/L	20.0		96.0	75-125	5.81	30	
o-Xylene	19.3	0.50	ug/L	20.0		96.7	75-125	3.75	30	
m,p-Xylenes	38.6	1.0	ug/L	40.0		96.4	75-125	4.56	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	49.3		ug/L	50.0		98.5	70-140			
<i>Surrogate: Dibromofluoromethane</i>	48.7		ug/L	50.0		97.5	70-140			
<i>Surrogate: Toluene-d8</i>	47.4		ug/L	50.0		94.8	70-140			
Duplicate (B3G1403-DUP1)				Source: 3G13002-01 Prepared & Analyzed: 07/14/23						

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: A5335116
Date Received: 07/13/23
Date Reported: 08/03/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B3G1403 - *** DEFAULT PREP ***</i>										
Duplicate (B3G1403-DUP1) Continued Source: 3G13002-01 Prepared & Analyzed: 07/14/23										
Benzene	0.340	0.25	ug/L		0.385			12.4	30	
Ethylbenzene	0.370	0.25	ug/L		0.385			3.97	30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L						30	
Toluene	<0.25	0.25	ug/L		0.230			9.09	30	
o-Xylene	0.515	0.25	ug/L		0.550			6.57	30	
m,p-Xylenes	1.26	0.50	ug/L		1.26			0.794	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>47.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>95.6</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>46.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>92.7</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>47.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>95.8</i>	<i>70-140</i>			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B3G1307 - *** DEFAULT PREP ***</i>										
Blank (B3G1307-BLK1) Prepared & Analyzed: 07/13/23										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>47.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>95.8</i>	<i>70-130</i>			
LCS (B3G1307-BS1) Prepared & Analyzed: 07/13/23										
Gasoline Range Organics (GRO)	499	20	ug/L	500		99.7	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>46.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>93.7</i>	<i>70-130</i>			
LCS Dup (B3G1307-BSD1) Prepared & Analyzed: 07/13/23										
Gasoline Range Organics (GRO)	484	20	ug/L	500		96.7	75-125	3.05	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>53.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>107</i>	<i>70-130</i>			
Duplicate (B3G1307-DUP1) Source: 3G11018-01 Prepared & Analyzed: 07/13/23										
Gasoline Range Organics (GRO)	221	20	ug/L		210			5.20	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>48.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>97.5</i>	<i>70-130</i>			
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3G1307 - *** DEFAULT PREP ***</i>										
Blank (B3G1307-BLK1) Prepared & Analyzed: 07/13/23										
Total VOCs as Hexane	<4.9	4.9	ppmv							
Duplicate (B3G1307-DUP1) Source: 3G11018-01 Prepared & Analyzed: 07/13/23										

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: A5335116
Date Received: 07/13/23
Date Reported: 08/03/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3G1307 - *** DEFAULT PREP ***</i>										
Duplicate (B3G1307-DUP1) Continued Source: 3G11018-01 Prepared & Analyzed: 07/13/23										
Total VOCs as Hexane	36.2	4.9	ppmv						30	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5335116
Date Received: 07/13/23
Date Reported: 08/03/23

Special Notes

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

Viorel Vasile
Operations Manager



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

August 03, 2023

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5335117 / 3G13004**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 07/13/23 15:24 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'V. Vasile', with a stylized flourish at the end.

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: A5335117
Date Received: 07/13/23
Date Reported: 08/03/23

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

VES Carbon-Influent	3G13004-01	Vapor	5	07/13/23 08:40	07/13/23 15:24
VES Carbon-Effluent	3G13004-02	Vapor	5	07/13/23 08:52	07/13/23 15:24

VOCs Gasoline Range Organics Vapor

VES Carbon-Influent	3G13004-01	Vapor	5	07/13/23 08:40	07/13/23 15:24
VES Carbon-Effluent	3G13004-02	Vapor	5	07/13/23 08:52	07/13/23 15:24

VOCs in Vapor as Hexane

VES Carbon-Influent	3G13004-01	Vapor	5	07/13/23 08:40	07/13/23 15:24
VES Carbon-Effluent	3G13004-02	Vapor	5	07/13/23 08:52	07/13/23 15:24

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5335117
Date Received: 07/13/23
Date Reported: 08/03/23
Sampled: 07/13/23
Prepared: 07/14/23
Analyzed: 07/14/23

VES Carbon-Influent
3G13004-01 (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	96.0 %	70-140
Dibromofluoromethane	102 %	70-140
Toluene-d8	91.5 %	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: A5335117
Date Received: 07/13/23
Date Reported: 08/03/23
Sampled: 07/13/23
Prepared: 07/14/23
Analyzed: 07/14/23

VES Carbon-Effluent
3G13004-02 (Vapor)

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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	97.7 %	70-140
Dibromofluoromethane	98.4 %	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: A5335117
Date Received: 07/13/23
Date Reported: 08/03/23
Sampled: 07/13/23
Prepared: 07/13/23
Analyzed: 07/13/23

VES Carbon-Influent
3G13004-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	38	ug/L	20	9.3	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		91.6 %			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: A5335117
Date Received: 07/13/23
Date Reported: 08/03/23
Sampled: 07/13/23
Prepared: 07/13/23
Analyzed: 07/13/23

VES Carbon-Effluent
3G13004-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		94.7 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5335117
Date Received: 07/13/23
Date Reported: 08/03/23
Units: ppmv

Date Sampled:	07/13/23	07/13/23	
Date Prepared:	07/13/23	07/13/23	
Date Analyzed:	07/13/23	07/13/23	
AA ID No:	3G13004-01	3G13004-02	
Client ID No:	VES	VES	
	Carbon-Influent	Carbon-Effluent	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	6.2	<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: A5335117
Date Received: 07/13/23
Date Reported: 08/03/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B3G1403 - *** DEFAULT PREP ***</i>										
Blank (B3G1403-BLK1) Prepared & Analyzed: 07/14/23										
Benzene	<0.50	0.50	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	47.9		ug/L	50.0		95.8	70-140			
<i>Surrogate: Dibromofluoromethane</i>	47.8		ug/L	50.0		95.6	70-140			
<i>Surrogate: Toluene-d8</i>	48.0		ug/L	50.0		96.1	70-140			
LCS (B3G1403-BS1) Prepared & Analyzed: 07/14/23										
Benzene	21.2	0.50	ug/L	20.0		106	75-125			
Ethylbenzene	20.8	0.50	ug/L	20.0		104	75-125			
Methyl-tert-Butyl Ether (MTBE)	38.7	2.0	ug/L	40.0		96.7	75-125			
Toluene	20.4	0.50	ug/L	20.0		102	75-125			
o-Xylene	20.1	0.50	ug/L	20.0		100	75-125			
m,p-Xylenes	40.4	1.0	ug/L	40.0		101	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	48.9		ug/L	50.0		97.9	70-140			
<i>Surrogate: Dibromofluoromethane</i>	49.0		ug/L	50.0		98.1	70-140			
<i>Surrogate: Toluene-d8</i>	46.7		ug/L	50.0		93.5	70-140			
LCS Dup (B3G1403-BSD1) Prepared & Analyzed: 07/14/23										
Benzene	19.5	0.50	ug/L	20.0		97.6	75-125	8.11	30	
Ethylbenzene	19.6	0.50	ug/L	20.0		97.8	75-125	6.19	30	
Methyl-tert-Butyl Ether (MTBE)	43.6	2.0	ug/L	40.0		109	75-125	11.9	30	
Toluene	19.2	0.50	ug/L	20.0		96.0	75-125	5.81	30	
o-Xylene	19.3	0.50	ug/L	20.0		96.7	75-125	3.75	30	
m,p-Xylenes	38.6	1.0	ug/L	40.0		96.4	75-125	4.56	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	49.3		ug/L	50.0		98.5	70-140			
<i>Surrogate: Dibromofluoromethane</i>	48.7		ug/L	50.0		97.5	70-140			
<i>Surrogate: Toluene-d8</i>	47.4		ug/L	50.0		94.8	70-140			
Duplicate (B3G1403-DUP1) Source: 3G13002-01 Prepared & Analyzed: 07/14/23										

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: A5335117
Date Received: 07/13/23
Date Reported: 08/03/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B3G1403 - *** DEFAULT PREP ***</i>										
Duplicate (B3G1403-DUP1) Continued Source: 3G13002-01 Prepared & Analyzed: 07/14/23										
Benzene	0.340	0.25	ug/L		0.385			12.4	30	
Ethylbenzene	0.370	0.25	ug/L		0.385			3.97	30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L						30	
Toluene	<0.25	0.25	ug/L		0.230			9.09	30	
o-Xylene	0.515	0.25	ug/L		0.550			6.57	30	
m,p-Xylenes	1.26	0.50	ug/L		1.26			0.794	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	47.8		ug/L	50.0		95.6	70-140			
<i>Surrogate: Dibromofluoromethane</i>	46.4		ug/L	50.0		92.7	70-140			
<i>Surrogate: Toluene-d8</i>	47.9		ug/L	50.0		95.8	70-140			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B3G1307 - *** DEFAULT PREP ***</i>										
Blank (B3G1307-BLK1) Prepared & Analyzed: 07/13/23										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	47.9		ug/L	50.0		95.8	70-130			
LCS (B3G1307-BS1) Prepared & Analyzed: 07/13/23										
Gasoline Range Organics (GRO)	499	20	ug/L	500		99.7	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	46.8		ug/L	50.0		93.7	70-130			
LCS Dup (B3G1307-BSD1) Prepared & Analyzed: 07/13/23										
Gasoline Range Organics (GRO)	484	20	ug/L	500		96.7	75-125	3.05	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	53.4		ug/L	50.0		107	70-130			
Duplicate (B3G1307-DUP1) Source: 3G11018-01 Prepared & Analyzed: 07/13/23										
Gasoline Range Organics (GRO)	221	20	ug/L		210			5.20	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	48.8		ug/L	50.0		97.5	70-130			
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3G1307 - *** DEFAULT PREP ***</i>										
Blank (B3G1307-BLK1) Prepared & Analyzed: 07/13/23										
Total VOCs as Hexane	<4.9	4.9	ppmv							
Duplicate (B3G1307-DUP1) Source: 3G11018-01 Prepared & Analyzed: 07/13/23										

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: A5335117
Date Received: 07/13/23
Date Reported: 08/03/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3G1307 - *** DEFAULT PREP ***</i>										
Duplicate (B3G1307-DUP1) Continued Source: 3G11018-01 Prepared & Analyzed: 07/13/23										
Total VOCs as Hexane	36.2	4.9	ppmv						30	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5335117
Date Received: 07/13/23
Date Reported: 08/03/23

Special Notes

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

Viorel Vasile
Operations Manager



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

August 24, 2023

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5335162 / 3H15012**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 08/15/23 17:23 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'V. Vasile', is written over a light blue circular stamp.

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: A5335162
Date Received: 08/15/23
Date Reported: 08/24/23

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

VES Carbon-Influent	3H15012-01	Vapor	5	08/15/23 10:15	08/15/23 17:23
VES Carbon-Effluent	3H15012-02	Vapor	5	08/15/23 10:25	08/15/23 17:23

VOCs Gasoline Range Organics Vapor

VES Carbon-Influent	3H15012-01	Vapor	5	08/15/23 10:15	08/15/23 17:23
VES Carbon-Effluent	3H15012-02	Vapor	5	08/15/23 10:25	08/15/23 17:23

VOCs in Vapor as Hexane

VES Carbon-Influent	3H15012-01	Vapor	5	08/15/23 10:15	08/15/23 17:23
VES Carbon-Effluent	3H15012-02	Vapor	5	08/15/23 10:25	08/15/23 17:23

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: A5335162
Date Received: 08/15/23
Date Reported: 08/24/23
Sampled: 08/15/23
Prepared: 08/17/23
Analyzed: 08/17/23

VES Carbon-Influent
3H15012-01 (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	94.8 %	70-140
Dibromofluoromethane	109 %	70-140
Toluene-d8	89.6 %	70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5335162
Date Received: 08/15/23
Date Reported: 08/24/23
Sampled: 08/15/23
Prepared: 08/17/23
Analyzed: 08/17/23

VES Carbon-Effluent
3H15012-02 (Vapor)

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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	93.1 %	70-140
Dibromofluoromethane	101 %	70-140
Toluene-d8	87.6 %	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: A5335162
Date Received: 08/15/23
Date Reported: 08/24/23
Sampled: 08/15/23
Prepared: 08/16/23
Analyzed: 08/16/23

VES Carbon-Influent
3H15012-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	43	ug/L	20	11	ppmv	4.9
Surrogates		%REC				%REC Limits
a,a,a-Trifluorotoluene		88.5 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5335162
Date Received: 08/15/23
Date Reported: 08/24/23
Sampled: 08/15/23
Prepared: 08/16/23
Analyzed: 08/16/23

VES Carbon-Effluent
3H15012-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		97.0 %			70-130	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5335162
Date Received: 08/15/23
Date Reported: 08/24/23
Units: ppmv

Date Sampled:	08/15/23	08/15/23	
Date Prepared:	08/16/23	08/16/23	
Date Analyzed:	08/16/23	08/16/23	
AA ID No:	3H15012-01	3H15012-02	
Client ID No:	VES	VES	
	Carbon-Influent	Carbon-Effluent	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	7.1	<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: A5335162
Date Received: 08/15/23
Date Reported: 08/24/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B3H1701 - *** DEFAULT PREP ***</i>										
Blank (B3H1701-BLK1) Prepared & Analyzed: 08/17/23										
Benzene	<0.50	0.50	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>47.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>94.0</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>45.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>91.0</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>47.3</i>		<i>ug/L</i>	<i>50.0</i>		<i>94.5</i>	<i>70-140</i>			
LCS (B3H1701-BS1) Prepared & Analyzed: 08/17/23										
Benzene	16.8	0.50	ug/L	20.0		83.8	75-125			
Ethylbenzene	18.9	0.50	ug/L	20.0		94.6	75-125			
Methyl-tert-Butyl Ether (MTBE)	31.9	2.0	ug/L	40.0		79.8	75-125			
Toluene	18.1	0.50	ug/L	20.0		90.4	75-125			
o-Xylene	18.3	0.50	ug/L	20.0		91.6	75-125			
m,p-Xylenes	37.6	1.0	ug/L	40.0		94.1	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>46.6</i>		<i>ug/L</i>	<i>50.0</i>		<i>93.2</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>44.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>89.8</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>45.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>90.7</i>	<i>70-140</i>			
LCS Dup (B3H1701-BSD1) Prepared & Analyzed: 08/17/23										
Benzene	16.4	0.50	ug/L	20.0		81.8	75-125	2.35	30	
Ethylbenzene	17.4	0.50	ug/L	20.0		87.2	75-125	8.20	30	
Methyl-tert-Butyl Ether (MTBE)	35.7	2.0	ug/L	40.0		89.2	75-125	11.1	30	
Toluene	16.6	0.50	ug/L	20.0		82.8	75-125	8.72	30	
o-Xylene	17.0	0.50	ug/L	20.0		85.2	75-125	7.19	30	
m,p-Xylenes	33.9	1.0	ug/L	40.0		84.8	75-125	10.3	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>47.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>94.4</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>49.1</i>		<i>ug/L</i>	<i>50.0</i>		<i>98.1</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>46.3</i>		<i>ug/L</i>	<i>50.0</i>		<i>92.6</i>	<i>70-140</i>			
Duplicate (B3H1701-DUP1) Source: 3H15014-01 Prepared & Analyzed: 08/17/23										

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: A5335162
Date Received: 08/15/23
Date Reported: 08/24/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B3H1701 - *** DEFAULT PREP ***</i>										
Duplicate (B3H1701-DUP1) Continued Source: 3H15014-01 Prepared & Analyzed: 08/17/23										
Benzene	0.745	0.25	ug/L		0.655			12.9	30	
Ethylbenzene	0.460	0.25	ug/L		0.365			23.0	30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L						30	
Toluene	0.275	0.25	ug/L		0.255			7.55	30	
o-Xylene	0.740	0.25	ug/L		0.655			12.2	30	
m,p-Xylenes	1.59	0.50	ug/L		1.34			17.4	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>44.7</i>		<i>ug/L</i>	<i>50.0</i>		<i>89.4</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>54.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>110</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>44.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>89.6</i>	<i>70-140</i>			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B3H1621 - *** DEFAULT PREP ***</i>										
Blank (B3H1621-BLK1) Prepared & Analyzed: 08/16/23										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>49.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>99.8</i>	<i>70-130</i>			
LCS (B3H1621-BS1) Prepared & Analyzed: 08/16/23										
Gasoline Range Organics (GRO)	442	20	ug/L	500		88.4	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>53.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>107</i>	<i>70-130</i>			
LCS Dup (B3H1621-BSD1) Prepared & Analyzed: 08/16/23										
Gasoline Range Organics (GRO)	510	20	ug/L	500		102	75-125	14.2	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>54.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>109</i>	<i>70-130</i>			
Duplicate (B3H1621-DUP1) Source: 3H15012-01 Prepared & Analyzed: 08/16/23										
Gasoline Range Organics (GRO)	48.3	20	ug/L		43.5			10.5	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>46.3</i>		<i>ug/L</i>	<i>50.0</i>		<i>92.5</i>	<i>70-130</i>			
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3H1621 - *** DEFAULT PREP ***</i>										
Blank (B3H1621-BLK1) Prepared & Analyzed: 08/16/23										
Total VOCs as Hexane	<4.9	4.9	ppmv							
LCS (B3H1621-BS1) Prepared: 08/16/23 Analyzed: 08/21/23										

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: A5335162
Date Received: 08/15/23
Date Reported: 08/24/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3H1621 - *** DEFAULT PREP ***</i>										
LCS (B3H1621-BS1) Continued										
				Prepared: 08/16/23 Analyzed: 08/21/23						
Total VOCs as Hexane	ND	4.9	ppmv				75-125			
LCS Dup (B3H1621-BSD1)										
				Prepared: 08/16/23 Analyzed: 08/21/23						
Total VOCs as Hexane	ND	4.9	ppmv				75-125		30	
Duplicate (B3H1621-DUP1)										
				Source: 3H15012-01 Prepared & Analyzed: 08/16/23						
Total VOCs as Hexane	7.91	4.9	ppmv		7.12			10.5	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: A5335162
Date Received: 08/15/23
Date Reported: 08/24/23

Special Notes

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

Viorel Vasile
Operations Manager



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

August 24, 2023

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5335163 / 3H15013**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 08/15/23 17:23 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: A5335163
Date Received: 08/15/23
Date Reported: 08/24/23

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

VES After GAC-1	3H15013-01	Vapor	5	08/15/23 10:10	08/15/23 17:23
VES After GAC-2	3H15013-02	Vapor	5	08/15/23 10:22	08/15/23 17:23

VOCs Gasoline Range Organics Vapor

VES After GAC-1	3H15013-01	Vapor	5	08/15/23 10:10	08/15/23 17:23
VES After GAC-2	3H15013-02	Vapor	5	08/15/23 10:22	08/15/23 17:23

VOCs in Vapor as Hexane

VES After GAC-1	3H15013-01	Vapor	5	08/15/23 10:10	08/15/23 17:23
VES After GAC-2	3H15013-02	Vapor	5	08/15/23 10:22	08/15/23 17:23

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:** A5335163**Date Received:** 08/15/23**Date Reported:** 08/24/23**Sampled:** 08/15/23**Prepared:** 08/17/23**Analyzed:** 08/17/23**VES After GAC-1****3H15013-01 (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

92.8 %

70-140

Dibromofluoromethane

103 %

70-140

Toluene-d8

90.2 %

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: A5335163
Date Received: 08/15/23
Date Reported: 08/24/23
Sampled: 08/15/23
Prepared: 08/17/23
Analyzed: 08/17/23

VES After GAC-2
3H15013-02 (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	91.1 %	70-140
Dibromofluoromethane	112 %	70-140
Toluene-d8	87.9 %	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: A5335163
Date Received: 08/15/23
Date Reported: 08/24/23
Sampled: 08/15/23
Prepared: 08/16/23
Analyzed: 08/16/23

VES After GAC-1
3H15013-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	24	ug/L	20	5.9	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		88.4 %			70-130	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5335163
Date Received: 08/15/23
Date Reported: 08/24/23
Sampled: 08/15/23
Prepared: 08/16/23
Analyzed: 08/16/23

VES After GAC-2

3H15013-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
Surrogates		%REC				%REC Limits
a,a,a-Trifluorotoluene		93.5 %				70-130

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5335163
Date Received: 08/15/23
Date Reported: 08/24/23
Units: ppmv

Date Sampled:	08/15/23	08/15/23	
Date Prepared:	08/16/23	08/16/23	
Date Analyzed:	08/16/23	08/16/23	
AA ID No:	3H15013-01	3H15013-02	
Client ID No:	VES After GAC-1	VES After GAC-2	
Matrix:	Vapor	Vapor	
Dilution Factor:	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: A5335163
Date Received: 08/15/23
Date Reported: 08/24/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B3H1701 - *** DEFAULT PREP ***</i>										
Blank (B3H1701-BLK1)				Prepared & Analyzed: 08/17/23						
Benzene	<0.50	0.50	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>47.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>94.0</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>45.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>91.0</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>47.3</i>		<i>ug/L</i>	<i>50.0</i>		<i>94.5</i>	<i>70-140</i>			
LCS (B3H1701-BS1)				Prepared & Analyzed: 08/17/23						
Benzene	16.8	0.50	ug/L	20.0		83.8	75-125			
Ethylbenzene	18.9	0.50	ug/L	20.0		94.6	75-125			
Methyl-tert-Butyl Ether (MTBE)	31.9	2.0	ug/L	40.0		79.8	75-125			
Toluene	18.1	0.50	ug/L	20.0		90.4	75-125			
o-Xylene	18.3	0.50	ug/L	20.0		91.6	75-125			
m,p-Xylenes	37.6	1.0	ug/L	40.0		94.1	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>46.6</i>		<i>ug/L</i>	<i>50.0</i>		<i>93.2</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>44.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>89.8</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>45.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>90.7</i>	<i>70-140</i>			
LCS Dup (B3H1701-BSD1)				Prepared & Analyzed: 08/17/23						
Benzene	16.4	0.50	ug/L	20.0		81.8	75-125	2.35	30	
Ethylbenzene	17.4	0.50	ug/L	20.0		87.2	75-125	8.20	30	
Methyl-tert-Butyl Ether (MTBE)	35.7	2.0	ug/L	40.0		89.2	75-125	11.1	30	
Toluene	16.6	0.50	ug/L	20.0		82.8	75-125	8.72	30	
o-Xylene	17.0	0.50	ug/L	20.0		85.2	75-125	7.19	30	
m,p-Xylenes	33.9	1.0	ug/L	40.0		84.8	75-125	10.3	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>47.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>94.4</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>49.1</i>		<i>ug/L</i>	<i>50.0</i>		<i>98.1</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>46.3</i>		<i>ug/L</i>	<i>50.0</i>		<i>92.6</i>	<i>70-140</i>			
Duplicate (B3H1701-DUP1)				Source: 3H15014-01 Prepared & Analyzed: 08/17/23						

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: A5335163
Date Received: 08/15/23
Date Reported: 08/24/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B3H1701 - *** DEFAULT PREP ***</i>										
Duplicate (B3H1701-DUP1) Continued Source: 3H15014-01 Prepared & Analyzed: 08/17/23										
Benzene	0.745	0.25	ug/L		0.655			12.9	30	
Ethylbenzene	0.460	0.25	ug/L		0.365			23.0	30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L						30	
Toluene	0.275	0.25	ug/L		0.255			7.55	30	
o-Xylene	0.740	0.25	ug/L		0.655			12.2	30	
m,p-Xylenes	1.59	0.50	ug/L		1.34			17.4	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>44.7</i>		<i>ug/L</i>	<i>50.0</i>		<i>89.4</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>54.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>110</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>44.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>89.6</i>	<i>70-140</i>			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B3H1621 - *** DEFAULT PREP ***</i>										
Blank (B3H1621-BLK1) Prepared & Analyzed: 08/16/23										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>49.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>99.8</i>	<i>70-130</i>			
LCS (B3H1621-BS1) Prepared & Analyzed: 08/16/23										
Gasoline Range Organics (GRO)	442	20	ug/L	500		88.4	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>53.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>107</i>	<i>70-130</i>			
LCS Dup (B3H1621-BSD1) Prepared & Analyzed: 08/16/23										
Gasoline Range Organics (GRO)	510	20	ug/L	500		102	75-125	14.2	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>54.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>109</i>	<i>70-130</i>			
Duplicate (B3H1621-DUP1) Source: 3H15012-01 Prepared & Analyzed: 08/16/23										
Gasoline Range Organics (GRO)	48.3	20	ug/L		43.5			10.5	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>46.3</i>		<i>ug/L</i>	<i>50.0</i>		<i>92.5</i>	<i>70-130</i>			
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3H1621 - *** DEFAULT PREP ***</i>										
Blank (B3H1621-BLK1) Prepared & Analyzed: 08/16/23										
Total VOCs as Hexane	<4.9	4.9	ppmv							
LCS (B3H1621-BS1) Prepared: 08/16/23 Analyzed: 08/21/23										

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: A5335163
Date Received: 08/15/23
Date Reported: 08/24/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3H1621 - *** DEFAULT PREP ***</i>										
LCS (B3H1621-BS1) Continued										
				Prepared: 08/16/23 Analyzed: 08/21/23						
Total VOCs as Hexane	ND	4.9	ppmv				75-125			
LCS Dup (B3H1621-BSD1)										
				Prepared: 08/16/23 Analyzed: 08/21/23						
Total VOCs as Hexane	ND	4.9	ppmv				75-125		30	
Duplicate (B3H1621-DUP1)										
				Source: 3H15012-01 Prepared & Analyzed: 08/16/23						
Total VOCs as Hexane	7.91	4.9	ppmv		7.12			10.5	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: A5335163
Date Received: 08/15/23
Date Reported: 08/24/23

Special Notes

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

Viorel Vasile
Operations Manager



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

October 17, 2023

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 091-NOR-001
A5335233 / 3I26014**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 09/26/23 16:44 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 grey circular stamp.

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335233
Date Received: 09/26/23
Date Reported: 10/17/23

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

VES After GAC-1	3I26014-01	Vapor	5	09/26/23 08:33	09/26/23 16:44
VES After GAC-2	3I26014-02	Vapor	5	09/26/23 08:35	09/26/23 16:44

VOCs Gasoline Range Organics Vapor

VES After GAC-1	3I26014-01	Vapor	5	09/26/23 08:33	09/26/23 16:44
VES After GAC-2	3I26014-02	Vapor	5	09/26/23 08:35	09/26/23 16:44

VOCs in Vapor as Hexane

VES After GAC-1	3I26014-01	Vapor	5	09/26/23 08:33	09/26/23 16:44
VES After GAC-2	3I26014-02	Vapor	5	09/26/23 08:35	09/26/23 16:44

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335233
Date Received: 09/26/23
Date Reported: 10/17/23
Sampled: 09/26/23
Prepared: 09/29/23
Analyzed: 09/29/23

VES After GAC-1
3126014-01 (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	88.4 %	70-140
Dibromofluoromethane	103 %	70-140
Toluene-d8	84.3 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335233
Date Received: 09/26/23
Date Reported: 10/17/23
Sampled: 09/26/23
Prepared: 09/29/23
Analyzed: 09/29/23

VES After GAC-2
3126014-02 (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	91.0 %	70-140
Toluene-d8	88.6 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335233
Date Received: 09/26/23
Date Reported: 10/17/23
Sampled: 09/26/23
Prepared: 09/29/23
Analyzed: 09/29/23

**VES After GAC-1
3126014-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	32	ug/L	20	7.8	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		93.3 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335233
Date Received: 09/26/23
Date Reported: 10/17/23
Sampled: 09/26/23
Prepared: 09/29/23
Analyzed: 09/29/23

VES After GAC-2
3126014-02 (Vapor)

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

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Method: VOCs in Vapor as Hexane

AA Project No: A5335233
Date Received: 09/26/23
Date Reported: 10/17/23
Units: ppmv

Date Sampled:	09/26/23	09/26/23	
Date Prepared:	09/29/23	09/29/23	
Date Analyzed:	09/29/23	09/29/23	
AA ID No:	3I26014-01	3I26014-02	
Client ID No:	VES After GAC-1	VES After GAC-2	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	5.3	<4.9	4.9
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335233
Date Received: 09/26/23
Date Reported: 10/17/23

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

Batch B3I2902 - *** DEFAULT PREP ***

Blank (B3I2902-BLK1)

Prepared & Analyzed: 09/29/23

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	50.1		ug/L	50.0	100	70-140
Surrogate: Dibromofluoromethane	49.9		ug/L	50.0	99.9	70-140
Surrogate: Toluene-d8	46.7		ug/L	50.0	93.3	70-140

LCS (B3I2902-BS1)

Prepared & Analyzed: 09/29/23

Benzene	21.7	0.50	ug/L	20.0	108	75-125
Ethylbenzene	19.4	0.50	ug/L	20.0	96.8	75-125
Methyl-tert-Butyl Ether (MTBE)	39.7	2.0	ug/L	40.0	99.2	75-125
Toluene	18.9	0.50	ug/L	20.0	94.4	75-125
o-Xylene	19.1	0.50	ug/L	20.0	95.3	75-125
m,p-Xylenes	38.6	1.0	ug/L	40.0	96.5	75-125

Surrogate: 4-Bromofluorobenzene	48.2		ug/L	50.0	96.3	70-140
Surrogate: Dibromofluoromethane	51.3		ug/L	50.0	103	70-140
Surrogate: Toluene-d8	47.9		ug/L	50.0	95.8	70-140

LCS Dup (B3I2902-BSD1)

Prepared & Analyzed: 09/29/23

Benzene	17.3	0.50	ug/L	20.0	86.4	75-125	22.6	30
Ethylbenzene	18.8	0.50	ug/L	20.0	93.8	75-125	3.20	30
Methyl-tert-Butyl Ether (MTBE)	31.0	2.0	ug/L	40.0	77.4	75-125	24.6	30
Toluene	18.4	0.50	ug/L	20.0	91.8	75-125	2.74	30
o-Xylene	19.5	0.50	ug/L	20.0	97.6	75-125	2.33	30
m,p-Xylenes	37.4	1.0	ug/L	40.0	93.4	75-125	3.24	30

Surrogate: 4-Bromofluorobenzene	47.4		ug/L	50.0	94.8	70-140
Surrogate: Dibromofluoromethane	43.7		ug/L	50.0	87.3	70-140
Surrogate: Toluene-d8	47.4		ug/L	50.0	94.9	70-140

Duplicate (B3I2902-DUP1)

Source: 3I26011-01 Prepared & Analyzed: 09/29/23

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335233
Date Received: 09/26/23
Date Reported: 10/17/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B3I2902 - *** DEFAULT PREP ***</i>										
Duplicate (B3I2902-DUP1) Continued Source: 3I26011-01 Prepared & Analyzed: 09/29/23										
Benzene	<0.25	0.25	ug/L		0.250			15.1	30	
Ethylbenzene	<0.25	0.25	ug/L		0.215			17.7	30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L						30	
Toluene	<0.25	0.25	ug/L						30	
o-Xylene	<0.25	0.25	ug/L		0.245			10.8	30	
m,p-Xylenes	0.540	0.50	ug/L		0.645			17.7	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	46.4		ug/L	50.0		92.8	70-140			
<i>Surrogate: Dibromofluoromethane</i>	43.8		ug/L	50.0		87.5	70-140			
<i>Surrogate: Toluene-d8</i>	45.7		ug/L	50.0		91.3	70-140			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B3I2901 - *** DEFAULT PREP ***</i>										
Blank (B3I2901-BLK1) Prepared & Analyzed: 09/29/23										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	42.6		ug/L	50.0		85.3	70-130			
LCS (B3I2901-BS1) Prepared & Analyzed: 09/29/23										
Gasoline Range Organics (GRO)	448	20	ug/L	500		89.7	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	47.0		ug/L	50.0		93.9	70-130			
LCS Dup (B3I2901-BSD1) Prepared & Analyzed: 09/29/23										
Gasoline Range Organics (GRO)	603	20	ug/L	500		121	75-125	29.4	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	46.1		ug/L	50.0		92.2	70-130			

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335233
Date Received: 09/26/23
Date Reported: 10/17/23

Special Notes

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

Viorel Vasile
Operations Manager



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

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

27377

Page 1 of 1

Client: The Source Group, Inc. Project Name / No.: DFSP - Norwalk / 091-NOR-001 Sampler's Name: *B. H. Leonard*

Project Manager: Neil Irish Site Address: 15306 Norwalk Blvd Sampler's Signature: *Bill Leonard*

Phone: 562-597-1055 City: Norwalk P.O. No.: Quote No.:

Fax: 569-597-1070 State & Zip: CA 90650 ANALYSIS REQUESTED (Test Name)

- 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.	Please enter the TAT Turnaround Codes ** below				Special Instructions
					Total VOCs Gas 8013	Total VOCs Hexane 8015	BTEX/MTBE 8260B		
VES After GAC-1	9/26/03	08:35	Air	1	✓	✓	✓	✓	*VOCs reported as
VES After GAC-2	9/26/03	08:35	Air	1	✓	✓	✓	✓	GRO (detection limit = 4.9 ppmv) and
									*VOCs as Hexane (detection limit = 4.9 ppmv)
									*Benzene (detection limit = 0.10 ppmv)
<p>PRIORITY</p> <p>RUSH 9/26/03</p> <p>AS335233 / 35226014</p>									
					Relinquished by	Date	Time	Received by	Time
					<i>Bob DeW...</i>	9/26/03	1445	<i>Will...</i>	
					Relinquished by	Date	Time	Received by	Time
					<i>Will...</i>	9/26/03	1644	<i>...</i>	
					Relinquished by	Date	Time	Received by	Time

23 SEP 26 16:44

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

October 17, 2023

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 091-NOR-001
A5335235 / 3I26017**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 09/26/23 16:44 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', written over a light blue circular stamp.

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335235
Date Received: 09/26/23
Date Reported: 10/17/23

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

VES Carbon-Influent	3I26017-01	Vapor	5	09/26/23 08:40	09/26/23 16:44
VES Carbon-Effluent	3I26017-02	Vapor	5	09/26/23 08:30	09/26/23 16:44

VOCs Gasoline Range Organics Vapor

VES Carbon-Influent	3I26017-01	Vapor	5	09/26/23 08:40	09/26/23 16:44
VES Carbon-Effluent	3I26017-02	Vapor	5	09/26/23 08:30	09/26/23 16:44

VOCs in Vapor as Hexane

VES Carbon-Influent	3I26017-01	Vapor	5	09/26/23 08:40	09/26/23 16:44
VES Carbon-Effluent	3I26017-02	Vapor	5	09/26/23 08:30	09/26/23 16:44

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335235
Date Received: 09/26/23
Date Reported: 10/17/23
Sampled: 09/26/23
Prepared: 09/29/23
Analyzed: 09/29/23

VES Carbon-Influent
3126017-01 (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	92.0 %	70-140
Dibromofluoromethane	82.8 %	70-140
Toluene-d8	90.5 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335235
Date Received: 09/26/23
Date Reported: 10/17/23
Sampled: 09/26/23
Prepared: 09/29/23
Analyzed: 09/29/23

VES Carbon-Effluent
3126017-02 (Vapor)

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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	93.1 %	70-140
Dibromofluoromethane	90.0 %	70-140
Toluene-d8	88.3 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335235
Date Received: 09/26/23
Date Reported: 10/17/23
Sampled: 09/26/23
Prepared: 09/29/23
Analyzed: 09/29/23

VES Carbon-Influent

3126017-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	34	ug/L	20	8.3	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		90.2 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335235
Date Received: 09/26/23
Date Reported: 10/17/23
Sampled: 09/26/23
Prepared: 09/29/23
Analyzed: 09/29/23

VES Carbon-Effluent

3126017-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		93.5 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Method: VOCs in Vapor as Hexane

AA Project No: A5335235
Date Received: 09/26/23
Date Reported: 10/17/23
Units: ppmv

Date Sampled:	09/26/23	09/26/23	
Date Prepared:	09/29/23	09/29/23	
Date Analyzed:	09/29/23	09/29/23	
AA ID No:	3I26017-01	3I26017-02	
Client ID No:	VES	VES	
	Carbon-Influent	Carbon-Effluent	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	5.5	<4.9	4.9
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Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335235
Date Received: 09/26/23
Date Reported: 10/17/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B3I2902 - *** DEFAULT PREP ***</i>										
Blank (B3I2902-BLK1)				Prepared & Analyzed: 09/29/23						
Benzene	<0.50	0.50	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>50.1</i>		<i>ug/L</i>	<i>50.0</i>		<i>100</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>49.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>99.9</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>46.7</i>		<i>ug/L</i>	<i>50.0</i>		<i>93.3</i>	<i>70-140</i>			
LCS (B3I2902-BS1)				Prepared & Analyzed: 09/29/23						
Benzene	21.7	0.50	ug/L	20.0		108	75-125			
Ethylbenzene	19.4	0.50	ug/L	20.0		96.8	75-125			
Methyl-tert-Butyl Ether (MTBE)	39.7	2.0	ug/L	40.0		99.2	75-125			
Toluene	18.9	0.50	ug/L	20.0		94.4	75-125			
o-Xylene	19.1	0.50	ug/L	20.0		95.3	75-125			
m,p-Xylenes	38.6	1.0	ug/L	40.0		96.5	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>48.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>96.3</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>51.3</i>		<i>ug/L</i>	<i>50.0</i>		<i>103</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>47.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>95.8</i>	<i>70-140</i>			
LCS Dup (B3I2902-BSD1)				Prepared & Analyzed: 09/29/23						
Benzene	17.3	0.50	ug/L	20.0		86.4	75-125	22.6	30	
Ethylbenzene	18.8	0.50	ug/L	20.0		93.8	75-125	3.20	30	
Methyl-tert-Butyl Ether (MTBE)	31.0	2.0	ug/L	40.0		77.4	75-125	24.6	30	
Toluene	18.4	0.50	ug/L	20.0		91.8	75-125	2.74	30	
o-Xylene	19.5	0.50	ug/L	20.0		97.6	75-125	2.33	30	
m,p-Xylenes	37.4	1.0	ug/L	40.0		93.4	75-125	3.24	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>47.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>94.8</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>43.7</i>		<i>ug/L</i>	<i>50.0</i>		<i>87.3</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>47.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>94.9</i>	<i>70-140</i>			
Duplicate (B3I2902-DUP1)				Source: 3I26011-01 Prepared & Analyzed: 09/29/23						

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335235
Date Received: 09/26/23
Date Reported: 10/17/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B3I2902 - *** DEFAULT PREP ***</i>										
Duplicate (B3I2902-DUP1) Continued Source: 3I26011-01 Prepared & Analyzed: 09/29/23										
Benzene	<0.25	0.25	ug/L		0.250			15.1	30	
Ethylbenzene	<0.25	0.25	ug/L		0.215			17.7	30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L						30	
Toluene	<0.25	0.25	ug/L						30	
o-Xylene	<0.25	0.25	ug/L		0.245			10.8	30	
m,p-Xylenes	0.540	0.50	ug/L		0.645			17.7	30	
Surrogate: 4-Bromofluorobenzene	46.4		ug/L	50.0		92.8	70-140			
Surrogate: Dibromofluoromethane	43.8		ug/L	50.0		87.5	70-140			
Surrogate: Toluene-d8	45.7		ug/L	50.0		91.3	70-140			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B3I2901 - *** DEFAULT PREP ***</i>										
Blank (B3I2901-BLK1) Prepared & Analyzed: 09/29/23										
Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	42.6		ug/L	50.0		85.3	70-130			
LCS (B3I2901-BS1) Prepared & Analyzed: 09/29/23										
Gasoline Range Organics (GRO)	448	20	ug/L	500		89.7	75-125			
Surrogate: a,a,a-Trifluorotoluene	47.0		ug/L	50.0		93.9	70-130			
LCS Dup (B3I2901-BSD1) Prepared & Analyzed: 09/29/23										
Gasoline Range Organics (GRO)	603	20	ug/L	500		121	75-125	29.4	30	
Surrogate: a,a,a-Trifluorotoluene	46.1		ug/L	50.0		92.2	70-130			

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335235
Date Received: 09/26/23
Date Reported: 10/17/23

Special Notes

A handwritten signature in black ink, appearing to read 'Viorel Vasile', is positioned above a horizontal line.

Viorel Vasile
Operations Manager



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

August 02, 2023

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5335115 / 3G13002**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 07/13/23 15:24 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'V. Vasile', written over a light grey circular stamp.

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: A5335115
Date Received: 07/13/23
Date Reported: 08/02/23

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

VES Thermox-Influent	3G13002-01	Vapor	5	07/13/23 09:30	07/13/23 15:24
VES Thermox-Effluent	3G13002-02	Vapor	5	07/13/23 09:25	07/13/23 15:24

VOCs Gasoline Range Organics Vapor

VES Thermox-Influent	3G13002-01	Vapor	5	07/13/23 09:30	07/13/23 15:24
VES Thermox-Effluent	3G13002-02	Vapor	5	07/13/23 09:25	07/13/23 15:24

VOCs in Vapor as Hexane

VES Thermox-Influent	3G13002-01	Vapor	5	07/13/23 09:30	07/13/23 15:24
VES Thermox-Effluent	3G13002-02	Vapor	5	07/13/23 09:25	07/13/23 15:24

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5335115
Date Received: 07/13/23
Date Reported: 08/02/23
Sampled: 07/13/23
Prepared: 07/14/23
Analyzed: 07/14/23

VES Thermax-Influent
3G13002-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	0.38	ug/L	0.50	0.12	ppmv	0.16
Ethylbenzene	0.38	ug/L	0.50	0.088	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	0.55	ug/L	0.50	0.13	ppmv	0.12
m,p-Xylenes	1.3	ug/L	1.0	0.30	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	92.4 %	70-140
Dibromofluoromethane	104 %	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: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335115
Date Received: 07/13/23
Date Reported: 08/02/23
Sampled: 07/13/23
Prepared: 07/14/23
Analyzed: 07/14/23

VES Thermax-Effluent
3G13002-02 (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	96.1 %	70-140
Dibromofluoromethane	103 %	70-140
Toluene-d8	93.2 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5335115
Date Received: 07/13/23
Date Reported: 08/02/23
Sampled: 07/13/23
Prepared: 07/13/23
Analyzed: 07/13/23

VES Thermax-Influent
3G13002-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	680	ug/L	20	170	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		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: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335115
Date Received: 07/13/23
Date Reported: 08/02/23
Sampled: 07/13/23
Prepared: 07/13/23
Analyzed: 07/13/23

VES Thermax-Effluent
3G13002-02 (Vapor)

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

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5335115
Date Received: 07/13/23
Date Reported: 08/02/23
Units: ppmv

Date Sampled:	07/13/23	07/13/23	
Date Prepared:	07/13/23	07/13/23	
Date Analyzed:	07/13/23	07/13/23	
AA ID No:	3G13002-01	3G13002-02	
Client ID No:	VES	VES	
	Thermox-Influent	Thermox-Effluent	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	110	<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: A5335115
Date Received: 07/13/23
Date Reported: 08/02/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B3G1403 - *** DEFAULT PREP ***</i>										
Blank (B3G1403-BLK1)				Prepared & Analyzed: 07/14/23						
Benzene	<0.50	0.50	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	47.9		ug/L	50.0		95.8	70-140			
<i>Surrogate: Dibromofluoromethane</i>	47.8		ug/L	50.0		95.6	70-140			
<i>Surrogate: Toluene-d8</i>	48.0		ug/L	50.0		96.1	70-140			
LCS (B3G1403-BS1)				Prepared & Analyzed: 07/14/23						
Benzene	21.2	0.50	ug/L	20.0		106	75-125			
Ethylbenzene	20.8	0.50	ug/L	20.0		104	75-125			
Methyl-tert-Butyl Ether (MTBE)	38.7	2.0	ug/L	40.0		96.7	75-125			
Toluene	20.4	0.50	ug/L	20.0		102	75-125			
o-Xylene	20.1	0.50	ug/L	20.0		100	75-125			
m,p-Xylenes	40.4	1.0	ug/L	40.0		101	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	48.9		ug/L	50.0		97.9	70-140			
<i>Surrogate: Dibromofluoromethane</i>	49.0		ug/L	50.0		98.1	70-140			
<i>Surrogate: Toluene-d8</i>	46.7		ug/L	50.0		93.5	70-140			
LCS Dup (B3G1403-BSD1)				Prepared & Analyzed: 07/14/23						
Benzene	19.5	0.50	ug/L	20.0		97.6	75-125	8.11	30	
Ethylbenzene	19.6	0.50	ug/L	20.0		97.8	75-125	6.19	30	
Methyl-tert-Butyl Ether (MTBE)	43.6	2.0	ug/L	40.0		109	75-125	11.9	30	
Toluene	19.2	0.50	ug/L	20.0		96.0	75-125	5.81	30	
o-Xylene	19.3	0.50	ug/L	20.0		96.7	75-125	3.75	30	
m,p-Xylenes	38.6	1.0	ug/L	40.0		96.4	75-125	4.56	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	49.3		ug/L	50.0		98.5	70-140			
<i>Surrogate: Dibromofluoromethane</i>	48.7		ug/L	50.0		97.5	70-140			
<i>Surrogate: Toluene-d8</i>	47.4		ug/L	50.0		94.8	70-140			
Duplicate (B3G1403-DUP1)				Source: 3G13002-01 Prepared & Analyzed: 07/14/23						

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: A5335115
Date Received: 07/13/23
Date Reported: 08/02/23

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 B3G1403 - *** DEFAULT PREP ***

Duplicate (B3G1403-DUP1) Continued Source: 3G13002-01 Prepared & Analyzed: 07/14/23

Benzene	0.340	0.25	ug/L		0.385			12.4	30	
Ethylbenzene	0.370	0.25	ug/L		0.385			3.97	30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L		<1.0				30	
Toluene	<0.25	0.25	ug/L		0.230			9.09	30	
o-Xylene	0.515	0.25	ug/L		0.550			6.57	30	
m,p-Xylenes	1.26	0.50	ug/L		1.26			0.794	30	
Surrogate: 4-Bromofluorobenzene	47.8		ug/L	50.0		95.6	70-140			
Surrogate: Dibromofluoromethane	46.4		ug/L	50.0		92.7	70-140			
Surrogate: Toluene-d8	47.9		ug/L	50.0		95.8	70-140			

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

Batch B3G1307 - *** DEFAULT PREP ***

Blank (B3G1307-BLK1) Prepared & Analyzed: 07/13/23

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

LCS (B3G1307-BS1) Prepared & Analyzed: 07/13/23

Gasoline Range Organics (GRO)	499	20	ug/L	500		99.7	75-125			
Surrogate: a,a,a-Trifluorotoluene	46.8		ug/L	50.0		93.7	70-130			

LCS Dup (B3G1307-BSD1) Prepared & Analyzed: 07/13/23

Gasoline Range Organics (GRO)	484	20	ug/L	500		96.7	75-125	3.05	30	
Surrogate: a,a,a-Trifluorotoluene	53.4		ug/L	50.0		107	70-130			

Duplicate (B3G1307-DUP1) Source: 3G11018-01 Prepared & Analyzed: 07/13/23

Gasoline Range Organics (GRO)	221	20	ug/L		210			5.20	30	
Surrogate: a,a,a-Trifluorotoluene	48.8		ug/L	50.0		97.5	70-130			

VOCs in Vapor as Hexane - Quality Control

Batch B3G1307 - *** DEFAULT PREP ***

Blank (B3G1307-BLK1) Prepared & Analyzed: 07/13/23

Total VOCs as Hexane	<4.9	4.9	ppmv							
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Duplicate (B3G1307-DUP1) Source: 3G11018-01 Prepared & Analyzed: 07/13/23

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: A5335115
Date Received: 07/13/23
Date Reported: 08/02/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3G1307 - *** DEFAULT PREP ***</i>										
Duplicate (B3G1307-DUP1) Continued Source: 3G11018-01 Prepared & Analyzed: 07/13/23										
Total VOCs as Hexane	36.2	4.9	ppmv						30	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5335115
Date Received: 07/13/23
Date Reported: 08/02/23

Special Notes

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

Viorel Vasile
Operations Manager



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

August 24, 2023

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5335164 / 3H15014**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 08/15/23 17:23 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', written over a light blue circular stamp.

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: A5335164
Date Received: 08/15/23
Date Reported: 08/24/23

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

VES Thermox-Influent	3H15014-01	Vapor	5	08/15/23 10:35	08/15/23 17:23
VES Thermox-Effluent	3H15014-02	Vapor	5	08/15/23 10:30	08/15/23 17:23

VOCs Gasoline Range Organics Vapor

VES Thermox-Influent	3H15014-01	Vapor	5	08/15/23 10:35	08/15/23 17:23
VES Thermox-Effluent	3H15014-02	Vapor	5	08/15/23 10:30	08/15/23 17:23

VOCs in Vapor as Hexane

VES Thermox-Influent	3H15014-01	Vapor	5	08/15/23 10:35	08/15/23 17:23
VES Thermox-Effluent	3H15014-02	Vapor	5	08/15/23 10:30	08/15/23 17:23

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: A5335164
Date Received: 08/15/23
Date Reported: 08/24/23
Sampled: 08/15/23
Prepared: 08/17/23
Analyzed: 08/17/23

VES Thermax-Influent
3H15014-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	0.66	ug/L	0.50	0.21	ppmv	0.16
Ethylbenzene	0.36	ug/L	0.50	0.083	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<1.0	ug/L	2.0	<0.28	ppmv	0.55
Toluene	0.26	ug/L	0.50	0.069	ppmv	0.13
o-Xylene	0.66	ug/L	0.50	0.15	ppmv	0.12
m,p-Xylenes	1.3	ug/L	1.0	0.30	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	93.4 %	70-140
Dibromofluoromethane	104 %	70-140
Toluene-d8	89.8 %	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: A5335164
Date Received: 08/15/23
Date Reported: 08/24/23
Sampled: 08/15/23
Prepared: 08/17/23
Analyzed: 08/17/23

VES Thermax-Effluent
3H15014-02 (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	91.9 %	70-140
Dibromofluoromethane	109 %	70-140
Toluene-d8	89.4 %	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: A5335164
Date Received: 08/15/23
Date Reported: 08/24/23
Sampled: 08/15/23
Prepared: 08/16/23
Analyzed: 08/16/23

VES Thermax-Influent
3H15014-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	1000	ug/L	20	240	ppmv	4.9
Surrogates		%REC			%REC Limits	
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: A5335164
Date Received: 08/15/23
Date Reported: 08/24/23
Sampled: 08/15/23
Prepared: 08/16/23
Analyzed: 08/16/23

VES Thermax-Effluent
3H15014-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
Surrogates		%REC				%REC Limits
a,a,a-Trifluorotoluene		86.9 %				70-130

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5335164
Date Received: 08/15/23
Date Reported: 08/24/23
Units: ppmv

Date Sampled:	08/15/23	08/15/23	
Date Prepared:	08/16/23	08/16/23	
Date Analyzed:	08/16/23	08/16/23	
AA ID No:	3H15014-01	3H15014-02	
Client ID No:	VES	VES	
	Thermox-Influent	Thermox-Effluent	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	160	<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: A5335164
Date Received: 08/15/23
Date Reported: 08/24/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B3H1701 - *** DEFAULT PREP ***</i>										
Blank (B3H1701-BLK1) Prepared & Analyzed: 08/17/23										
Benzene	<0.50	0.50	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>47.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>94.0</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>45.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>91.0</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>47.3</i>		<i>ug/L</i>	<i>50.0</i>		<i>94.5</i>	<i>70-140</i>			
LCS (B3H1701-BS1) Prepared & Analyzed: 08/17/23										
Benzene	16.8	0.50	ug/L	20.0		83.8	75-125			
Ethylbenzene	18.9	0.50	ug/L	20.0		94.6	75-125			
Methyl-tert-Butyl Ether (MTBE)	31.9	2.0	ug/L	40.0		79.8	75-125			
Toluene	18.1	0.50	ug/L	20.0		90.4	75-125			
o-Xylene	18.3	0.50	ug/L	20.0		91.6	75-125			
m,p-Xylenes	37.6	1.0	ug/L	40.0		94.1	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>46.6</i>		<i>ug/L</i>	<i>50.0</i>		<i>93.2</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>44.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>89.8</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>45.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>90.7</i>	<i>70-140</i>			
LCS Dup (B3H1701-BSD1) Prepared & Analyzed: 08/17/23										
Benzene	16.4	0.50	ug/L	20.0		81.8	75-125	2.35	30	
Ethylbenzene	17.4	0.50	ug/L	20.0		87.2	75-125	8.20	30	
Methyl-tert-Butyl Ether (MTBE)	35.7	2.0	ug/L	40.0		89.2	75-125	11.1	30	
Toluene	16.6	0.50	ug/L	20.0		82.8	75-125	8.72	30	
o-Xylene	17.0	0.50	ug/L	20.0		85.2	75-125	7.19	30	
m,p-Xylenes	33.9	1.0	ug/L	40.0		84.8	75-125	10.3	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>47.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>94.4</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>49.1</i>		<i>ug/L</i>	<i>50.0</i>		<i>98.1</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>46.3</i>		<i>ug/L</i>	<i>50.0</i>		<i>92.6</i>	<i>70-140</i>			
Duplicate (B3H1701-DUP1) Source: 3H15014-01 Prepared & Analyzed: 08/17/23										

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: A5335164
Date Received: 08/15/23
Date Reported: 08/24/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B3H1701 - *** DEFAULT PREP ***</i>										
Duplicate (B3H1701-DUP1) Continued Source: 3H15014-01 Prepared & Analyzed: 08/17/23										
Benzene	0.745	0.25	ug/L		0.655			12.9	30	
Ethylbenzene	0.460	0.25	ug/L		0.365			23.0	30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L		<1.0				30	
Toluene	0.275	0.25	ug/L		0.255			7.55	30	
o-Xylene	0.740	0.25	ug/L		0.655			12.2	30	
m,p-Xylenes	1.59	0.50	ug/L		1.34			17.4	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>44.7</i>		<i>ug/L</i>	<i>50.0</i>		<i>89.4</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>54.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>110</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>44.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>89.6</i>	<i>70-140</i>			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B3H1621 - *** DEFAULT PREP ***</i>										
Blank (B3H1621-BLK1) Prepared & Analyzed: 08/16/23										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>49.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>99.8</i>	<i>70-130</i>			
LCS (B3H1621-BS1) Prepared & Analyzed: 08/16/23										
Gasoline Range Organics (GRO)	442	20	ug/L	500		88.4	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>53.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>107</i>	<i>70-130</i>			
LCS Dup (B3H1621-BSD1) Prepared & Analyzed: 08/16/23										
Gasoline Range Organics (GRO)	510	20	ug/L	500		102	75-125	14.2	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>54.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>109</i>	<i>70-130</i>			
Duplicate (B3H1621-DUP1) Source: 3H15012-01 Prepared & Analyzed: 08/16/23										
Gasoline Range Organics (GRO)	48.3	20	ug/L		43.5			10.5	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>46.3</i>		<i>ug/L</i>	<i>50.0</i>		<i>92.5</i>	<i>70-130</i>			
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3H1621 - *** DEFAULT PREP ***</i>										
Blank (B3H1621-BLK1) Prepared & Analyzed: 08/16/23										
Total VOCs as Hexane	<4.9	4.9	ppmv							
LCS (B3H1621-BS1) Prepared: 08/16/23 Analyzed: 08/21/23										

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: A5335164
Date Received: 08/15/23
Date Reported: 08/24/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3H1621 - *** DEFAULT PREP ***</i>										
LCS (B3H1621-BS1) Continued Prepared: 08/16/23 Analyzed: 08/21/23										
Total VOCs as Hexane	ND	4.9	ppmv				75-125			
LCS Dup (B3H1621-BSD1) Prepared: 08/16/23 Analyzed: 08/21/23										
Total VOCs as Hexane	ND	4.9	ppmv				75-125		30	
Duplicate (B3H1621-DUP1) Source: 3H15012-01 Prepared & Analyzed: 08/16/23										
Total VOCs as Hexane	7.91	4.9	ppmv		7.12			10.5	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: A5335164
Date Received: 08/15/23
Date Reported: 08/24/23

Special Notes

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

Viorel Vasile
Operations Manager



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

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

2788

Page 1 of 1

Client: The Source Group, Inc. Project Name / No.: DFSP - Norwalk / 091-NDLA Sampler's Name: Bill Gardner
 Project Manager: Neil Irish Site Address: 15306 Norwalk Blvd Sampler's Signature: Bill Gardner
 Phone: 562-597-1055 City: Norwalk P.O. No.: Bill Gardner
 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 8019	Total VOCs Hexane 8045	BTEX/MTBE 8260B		
VES Thermox-Influent	8/15/23	1035	Air	1	✓	✓		*VOC's reported as	
VES Thermox-Effluent	8/15/23	1030	Air	1	✓	✓		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)	
<p>PRIORITY</p> <p>8/16/23 9:00 AM</p> <p>AS235164/3H15014</p>									
Relinquished by Bill Gardner					Date	8/15/23	Time	1155	Received by
Relinquished by					Date	8/15/23	Time	1723	Received by
Relinquished by					Date		Time		Received by

23 AUG 15 17:23

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

October 12, 2023

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 091-NOR-001
A5335230 / 3I26011**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 09/26/23 16:44 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 circular stamp.

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335230
Date Received: 09/26/23
Date Reported: 10/12/23

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

VES Thermox-Influent	3I26011-01	Vapor	5	09/26/23 09:00	09/26/23 16:44
VES Thermox-Effluent	3I26011-02	Vapor	5	09/26/23 08:55	09/26/23 16:44

VOCs Gasoline Range Organics Vapor

VES Thermox-Influent	3I26011-01	Vapor	5	09/26/23 09:00	09/26/23 16:44
VES Thermox-Effluent	3I26011-02	Vapor	5	09/26/23 08:55	09/26/23 16:44

VOCs in Vapor as Hexane

VES Thermox-Influent	3I26011-01	Vapor	5	09/26/23 09:00	09/26/23 16:44
VES Thermox-Effluent	3I26011-02	Vapor	5	09/26/23 08:55	09/26/23 16:44

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335230
Date Received: 09/26/23
Date Reported: 10/12/23
Sampled: 09/26/23
Prepared: 09/29/23
Analyzed: 09/29/23

VES Thermax-Influent
3126011-01 (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	0.64	ug/L	1.0	0.15	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	91.9 %	70-140
Dibromofluoromethane	83.5 %	70-140
Toluene-d8	94.1 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335230
Date Received: 09/26/23
Date Reported: 10/12/23
Sampled: 09/26/23
Prepared: 09/29/23
Analyzed: 09/29/23

VES Thermax-Effluent
3126011-02 (Vapor)

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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	93.5 %	70-140
Dibromofluoromethane	92.0 %	70-140
Toluene-d8	90.9 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335230
Date Received: 09/26/23
Date Reported: 10/12/23
Sampled: 09/26/23
Prepared: 09/28/23
Analyzed: 09/28/23

VES Thermax-Influent
3126011-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	460	ug/L	20	110	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		126 %			70-130	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335230
Date Received: 09/26/23
Date Reported: 10/12/23
Sampled: 09/26/23
Prepared: 09/27/23
Analyzed: 09/27/23

VES Thermax-Effluent
3126011-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	78	ug/L	20	19	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		103 %			70-130	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Method: VOCs in Vapor as Hexane

AA Project No: A5335230
Date Received: 09/26/23
Date Reported: 10/12/23
Units: ppmv

Date Sampled:	09/26/23	09/26/23	
Date Prepared:	09/28/23	09/27/23	
Date Analyzed:	09/28/23	09/27/23	
AA ID No:	3I26011-01	3I26011-02	
Client ID No:	VES	VES	
	Thermox-Influent	Thermox-Effluent	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	75	13	4.9
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Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335230
Date Received: 09/26/23
Date Reported: 10/12/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B3I2902 - *** DEFAULT PREP ***</i>										
Blank (B3I2902-BLK1) Prepared & Analyzed: 09/29/23										
Benzene	<0.50	0.50	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>50.1</i>		<i>ug/L</i>	<i>50.0</i>		<i>100</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>49.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>99.9</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>46.7</i>		<i>ug/L</i>	<i>50.0</i>		<i>93.3</i>	<i>70-140</i>			
LCS (B3I2902-BS1) Prepared & Analyzed: 09/29/23										
Benzene	21.7	0.50	ug/L	20.0		108	75-125			
Ethylbenzene	19.4	0.50	ug/L	20.0		96.8	75-125			
Methyl-tert-Butyl Ether (MTBE)	39.7	2.0	ug/L	40.0		99.2	75-125			
Toluene	18.9	0.50	ug/L	20.0		94.4	75-125			
o-Xylene	19.1	0.50	ug/L	20.0		95.3	75-125			
m,p-Xylenes	38.6	1.0	ug/L	40.0		96.5	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>48.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>96.3</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>51.3</i>		<i>ug/L</i>	<i>50.0</i>		<i>103</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>47.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>95.8</i>	<i>70-140</i>			
LCS Dup (B3I2902-BSD1) Prepared & Analyzed: 09/29/23										
Benzene	17.3	0.50	ug/L	20.0		86.4	75-125	22.6	30	
Ethylbenzene	18.8	0.50	ug/L	20.0		93.8	75-125	3.20	30	
Methyl-tert-Butyl Ether (MTBE)	31.0	2.0	ug/L	40.0		77.4	75-125	24.6	30	
Toluene	18.4	0.50	ug/L	20.0		91.8	75-125	2.74	30	
o-Xylene	19.5	0.50	ug/L	20.0		97.6	75-125	2.33	30	
m,p-Xylenes	37.4	1.0	ug/L	40.0		93.4	75-125	3.24	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>47.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>94.8</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>43.7</i>		<i>ug/L</i>	<i>50.0</i>		<i>87.3</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>47.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>94.9</i>	<i>70-140</i>			
Duplicate (B3I2902-DUP1) Source: 3I26011-01 Prepared & Analyzed: 09/29/23										

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335230
Date Received: 09/26/23
Date Reported: 10/12/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B3I2902 - *** DEFAULT PREP ***</i>										
Duplicate (B3I2902-DUP1) Continued Source: 3I26011-01 Prepared & Analyzed: 09/29/23										
Benzene	<0.25	0.25	ug/L		0.250			15.1	30	
Ethylbenzene	<0.25	0.25	ug/L		0.215			17.7	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		0.245			10.8	30	
m,p-Xylenes	0.540	0.50	ug/L		0.645			17.7	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	46.4		ug/L	50.0		92.8	70-140			
<i>Surrogate: Dibromofluoromethane</i>	43.8		ug/L	50.0		87.5	70-140			
<i>Surrogate: Toluene-d8</i>	45.7		ug/L	50.0		91.3	70-140			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B3I2712 - *** DEFAULT PREP ***</i>										
Blank (B3I2712-BLK1) Prepared & Analyzed: 09/27/23										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	48.7		ug/L	50.0		97.3	70-130			
LCS (B3I2712-BS1) Prepared & Analyzed: 09/27/23										
Gasoline Range Organics (GRO)	534	20	ug/L	500		107	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	49.2		ug/L	50.0		98.5	70-130			
LCS Dup (B3I2712-BSD1) Prepared & Analyzed: 09/27/23										
Gasoline Range Organics (GRO)	610	20	ug/L	500		122	75-125	13.2	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	52.1		ug/L	50.0		104	70-130			
Duplicate (B3I2712-DUP1) Source: 3I25013-01 Prepared & Analyzed: 09/27/23										
Gasoline Range Organics (GRO)	2740	20	ug/L		2800			2.13	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	58.8		ug/L	50.0		118	70-130			
<i>Batch B3I2801 - *** DEFAULT PREP ***</i>										
Blank (B3I2801-BLK1) Prepared & Analyzed: 09/28/23										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	42.9		ug/L	50.0		85.8	70-130			
LCS (B3I2801-BS1) Prepared & Analyzed: 09/28/23										

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335230
Date Received: 09/26/23
Date Reported: 10/12/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B3I2801 - *** DEFAULT PREP ***</i>										
LCS (B3I2801-BS1) Continued				Prepared & Analyzed: 09/28/23						
Gasoline Range Organics (GRO)	501	20	ug/L	500		100	75-125			
Surrogate: a,a,a-Trifluorotoluene	54.3		ug/L	50.0		109	70-130			
LCS Dup (B3I2801-BSD1)				Prepared & Analyzed: 09/28/23						
Gasoline Range Organics (GRO)	444	20	ug/L	500		88.7	75-125	12.1	30	
Surrogate: a,a,a-Trifluorotoluene	52.5		ug/L	50.0		105	70-130			
Duplicate (B3I2801-DUP1)				Source: 3I26011-01			Prepared & Analyzed: 09/28/23			
Gasoline Range Organics (GRO)	372	20	ug/L		456			20.2	30	
Surrogate: a,a,a-Trifluorotoluene	58.7		ug/L	50.0		117	70-130			
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3I2712 - *** DEFAULT PREP ***</i>										
Duplicate (B3I2712-DUP1)				Source: 3I25013-01			Prepared & Analyzed: 09/27/23			
Total VOCs as Hexane	449	4.9	ppmv		458			1.91	30	
<i>Batch B3I2801 - *** DEFAULT PREP ***</i>										
Duplicate (B3I2801-DUP1)				Source: 3I26011-01			Prepared & Analyzed: 09/28/23			
Total VOCs as Hexane	62.4	4.9	ppmv		74.6			17.7	30	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335230
Date Received: 09/26/23
Date Reported: 10/12/23

Special Notes

A handwritten signature in black ink, appearing to be 'VA' or similar, located above the name Viorel Vasile.

Viorel Vasile
Operations Manager



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

October 17, 2023

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 091-NOR-001
A5335232 / 3I26013**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 09/26/23 16:44 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', written over a light blue circular stamp.

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335232
Date Received: 09/26/23
Date Reported: 10/17/23

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

Trunkline#1 (East)	3I26013-01	Vapor	5	09/26/23 11:20	09/26/23 16:44
Trunkline#2 (South)	3I26013-02	Vapor	5	09/26/23 11:18	09/26/23 16:44
Trunkline#3 (Central S)	3I26013-03	Vapor	5	09/26/23 11:13	09/26/23 16:44
Trunkline#4 (Central E)	3I26013-04	Vapor	5	09/26/23 11:16	09/26/23 16:44
Trunkline#5 (Central W)	3I26013-05	Vapor	5	09/26/23 11:10	09/26/23 16:44
Trunkline#6 (East)	3I26013-06	Vapor	5	09/26/23 11:24	09/26/23 16:44
Trunkline#7 (East)	3I26013-07	Vapor	5	09/26/23 11:22	09/26/23 16:44

VOCs Gasoline Range Organics Vapor

Trunkline#1 (East)	3I26013-01	Vapor	5	09/26/23 11:20	09/26/23 16:44
Trunkline#2 (South)	3I26013-02	Vapor	5	09/26/23 11:18	09/26/23 16:44
Trunkline#3 (Central S)	3I26013-03	Vapor	5	09/26/23 11:13	09/26/23 16:44
Trunkline#4 (Central E)	3I26013-04	Vapor	5	09/26/23 11:16	09/26/23 16:44
Trunkline#5 (Central W)	3I26013-05	Vapor	5	09/26/23 11:10	09/26/23 16:44
Trunkline#6 (East)	3I26013-06	Vapor	5	09/26/23 11:24	09/26/23 16:44
Trunkline#7 (East)	3I26013-07	Vapor	5	09/26/23 11:22	09/26/23 16:44

VOCs in Vapor as Hexane

Trunkline#1 (East)	3I26013-01	Vapor	5	09/26/23 11:20	09/26/23 16:44
Trunkline#2 (South)	3I26013-02	Vapor	5	09/26/23 11:18	09/26/23 16:44

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335232
Date Received: 09/26/23
Date Reported: 10/17/23

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
Trunkline#3 (Central S)	3I26013-03	Vapor	5	09/26/23 11:13	09/26/23 16:44
Trunkline#4 (Central E)	3I26013-04	Vapor	5	09/26/23 11:16	09/26/23 16:44
Trunkline#5 (Central W)	3I26013-05	Vapor	5	09/26/23 11:10	09/26/23 16:44
Trunkline#6 (East)	3I26013-06	Vapor	5	09/26/23 11:24	09/26/23 16:44
Trunkline#7 (East)	3I26013-07	Vapor	5	09/26/23 11:22	09/26/23 16:44

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335232
Date Received: 09/26/23
Date Reported: 10/17/23
Sampled: 09/26/23
Prepared: 09/29/23
Analyzed: 09/29/23

Trunkline#1 (East)

3126013-01 (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	124 %	70-140
Dibromofluoromethane	105 %	70-140
Toluene-d8	110 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335232
Date Received: 09/26/23
Date Reported: 10/17/23
Sampled: 09/26/23
Prepared: 09/29/23
Analyzed: 09/29/23

Trunkline#2 (South)

3126013-02 (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	110 %	70-140
Toluene-d8	112 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335232
Date Received: 09/26/23
Date Reported: 10/17/23
Sampled: 09/26/23
Prepared: 09/29/23
Analyzed: 09/29/23

Trunkline#3 (Central S)

3126013-03 (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	<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	108 %	70-140
Toluene-d8	112 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335232
Date Received: 09/26/23
Date Reported: 10/17/23
Sampled: 09/26/23
Prepared: 09/29/23
Analyzed: 09/29/23

Trunkline#4 (Central E)

3126013-04 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	2.3	ug/L	0.50	0.72	ppmv	0.16
Ethylbenzene	1.4	ug/L	0.50	0.32	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<1.0	ug/L	2.0	<0.28	ppmv	0.55
Toluene	0.81	ug/L	0.50	0.21	ppmv	0.13
o-Xylene	1.9	ug/L	0.50	0.44	ppmv	0.12
m,p-Xylenes	5.8	ug/L	1.0	1.3	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	105 %	70-140
Dibromofluoromethane	107 %	70-140
Toluene-d8	119 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335232
Date Received: 09/26/23
Date Reported: 10/17/23
Sampled: 09/26/23
Prepared: 09/29/23
Analyzed: 09/29/23

Trunkline#5 (Central W)

3126013-05 (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	137 %	70-140
Dibromofluoromethane	114 %	70-140
Toluene-d8	111 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335232
Date Received: 09/26/23
Date Reported: 10/17/23
Sampled: 09/26/23
Prepared: 09/29/23
Analyzed: 09/29/23

Trunkline#6 (East)
3126013-06 (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	123 %	70-140
Dibromofluoromethane	105 %	70-140
Toluene-d8	117 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335232
Date Received: 09/26/23
Date Reported: 10/17/23
Sampled: 09/26/23
Prepared: 09/29/23
Analyzed: 09/29/23

Trunkline#7 (East)

3126013-07 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	0.78	ug/L	0.50	0.24	ppmv	0.16
Ethylbenzene	2.9	ug/L	0.50	0.67	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	2.2	ug/L	0.50	0.51	ppmv	0.12
m,p-Xylenes	1.5	ug/L	1.0	0.35	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	116 %	70-140
Dibromofluoromethane	110 %	70-140
Toluene-d8	128 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335232
Date Received: 09/26/23
Date Reported: 10/17/23
Sampled: 09/26/23
Prepared: 09/28/23
Analyzed: 09/28/23

Trunkline#1 (East)

3126013-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	360	ug/L	20	88	ppmv	4.9
<u>Surrogates</u>						
a,a,a-Trifluorotoluene		<u>%REC</u>				<u>%REC Limits</u>
		125 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335232
Date Received: 09/26/23
Date Reported: 10/17/23
Sampled: 09/26/23
Prepared: 09/28/23
Analyzed: 09/28/23

Trunkline#2 (South)

3126013-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	320	ug/L	20	78	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>				<u>%REC Limits</u>
a,a,a-Trifluorotoluene		99.7 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335232
Date Received: 09/26/23
Date Reported: 10/17/23
Sampled: 09/26/23
Prepared: 09/28/23
Analyzed: 09/28/23

Trunkline#3 (Central S)

3126013-03 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	480	ug/L	20	120	ppmv	4.9
<u>Surrogates</u>						
a,a,a-Trifluorotoluene		<u>%REC</u>				<u>%REC Limits</u>
		111 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)

Project No: 091-NOR-001

Project Name: DFSP Norwalk VES AQMD

Matrix: Vapor

Dilution: 1

Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335232

Date Received: 09/26/23

Date Reported: 10/17/23

Sampled: 09/26/23

Prepared: 09/28/23

Analyzed: 09/28/23

Trunkline#4 (Central E)

3126013-04 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	1600	ug/L	20	390	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>				<u>%REC Limits</u>
a,a,a-Trifluorotoluene		121 %				70-130

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)

Project No: 091-NOR-001

Project Name: DFSP Norwalk VES AQMD

Matrix: Vapor

Dilution: 1

Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335232

Date Received: 09/26/23

Date Reported: 10/17/23

Sampled: 09/26/23

Prepared: 09/28/23

Analyzed: 09/28/23

Trunkline#5 (Central W)

3126013-05 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	68	ug/L	20	17	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>				<u>%REC Limits</u>
a,a,a-Trifluorotoluene		86.6 %				70-130

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335232
Date Received: 09/26/23
Date Reported: 10/17/23
Sampled: 09/26/23
Prepared: 09/28/23
Analyzed: 09/28/23

Trunkline#6 (East)

3126013-06 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	110	ug/L	20	27	ppmv	4.9
<u>Surrogates</u>						
a,a,a-Trifluorotoluene		<u>%REC</u>				<u>%REC Limits</u>
		102 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)

Project No: 091-NOR-001

Project Name: DFSP Norwalk VES AQMD

Matrix: Vapor

Dilution: 1

Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335232

Date Received: 09/26/23

Date Reported: 10/17/23

Sampled: 09/26/23

Prepared: 09/28/23

Analyzed: 09/28/23

Trunkline#7 (East)

3126013-07 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	1000	ug/L	20	240	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		82.2 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Method: VOCs in Vapor as Hexane

AA Project No: A5335232
Date Received: 09/26/23
Date Reported: 10/17/23
Units: ppmv

Date Sampled:	09/26/23	09/26/23	09/26/23	09/26/23	
Date Prepared:	09/28/23	09/28/23	09/28/23	09/28/23	
Date Analyzed:	09/28/23	09/28/23	09/28/23	09/28/23	
AA ID No:	3I26013-01	3I26013-02	3I26013-03	3I26013-04	
Client ID No:	Trunkline#1 (East)	Trunkline#2 (South)	Trunkline#3 (Central S)	Trunkline#4 (Central E)	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	59	52	78	260	4.9
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Method: VOCs in Vapor as Hexane

AA Project No: A5335232
Date Received: 09/26/23
Date Reported: 10/17/23
Units: ppmv

Date Sampled:	09/26/23	09/26/23	09/26/23	
Date Prepared:	09/28/23	09/28/23	09/28/23	
Date Analyzed:	09/28/23	09/28/23	09/28/23	
AA ID No:	3I26013-05	3I26013-06	3I26013-07	
Client ID No:	Trunkline#5 (Central W)	Trunkline#6 (East)	Trunkline#7 (East)	
Matrix:	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	MRL

VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	11	18	140	4.9
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335232
Date Received: 09/26/23
Date Reported: 10/17/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B3I2903 - *** DEFAULT PREP ***</i>										
Blank (B3I2903-BLK1)				Prepared & Analyzed: 09/29/23						
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>59.7</i>		<i>ug/L</i>	<i>50.0</i>		<i>119</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>48.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>96.0</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>57.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>115</i>	<i>70-140</i>			
LCS (B3I2903-BS1)				Prepared: 09/29/23 Analyzed: 09/30/23						
Benzene	23.3	0.50	ug/L	20.0		116	75-125			
Ethylbenzene	20.7	0.50	ug/L	20.0		104	75-125			
Methyl-tert-Butyl Ether (MTBE)	45.4	2.0	ug/L	40.0		113	75-125			
Toluene	21.7	0.50	ug/L	20.0		109	75-125			
o-Xylene	22.5	0.50	ug/L	20.0		113	75-125			
m,p-Xylenes	44.4	1.0	ug/L	40.0		111	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>44.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>89.1</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>58.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>116</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>53.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>107</i>	<i>70-140</i>			
LCS Dup (B3I2903-BSD1)				Prepared & Analyzed: 09/29/23						
Benzene	17.8	0.50	ug/L	20.0		89.2	75-125	26.4	30	
Ethylbenzene	17.7	0.50	ug/L	20.0		88.5	75-125	15.8	30	
Methyl-tert-Butyl Ether (MTBE)	37.6	2.0	ug/L	40.0		93.9	75-125	18.8	30	
Toluene	17.9	0.50	ug/L	20.0		89.4	75-125	19.4	30	
o-Xylene	18.6	0.50	ug/L	20.0		93.1	75-125	19.0	30	
m,p-Xylenes	36.4	1.0	ug/L	40.0		91.1	75-125	19.7	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>46.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>93.7</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>57.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>115</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>56.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>113</i>	<i>70-140</i>			
Duplicate (B3I2903-DUP1)				Source: 3I26013-07 Prepared & Analyzed: 09/29/23						

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335232
Date Received: 09/26/23
Date Reported: 10/17/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B3I2903 - *** DEFAULT PREP ***</i>										
Duplicate (B3I2903-DUP1) Continued Source: 3I26013-07 Prepared & Analyzed: 09/29/23										
Benzene	0.750	0.25	ug/L		0.775			3.28	30	
Ethylbenzene	2.59	0.25	ug/L		2.89			10.9	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	1.92	0.25	ug/L		2.16			12.0	30	
m,p-Xylenes	1.72	0.50	ug/L		1.50			13.0	30	
Surrogate: 4-Bromofluorobenzene	54.5		ug/L	50.0		109	70-140			
Surrogate: Dibromofluoromethane	57.6		ug/L	50.0		115	70-140			
Surrogate: Toluene-d8	62.4		ug/L	50.0		125	70-140			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B3I2801 - *** DEFAULT PREP ***</i>										
Blank (B3I2801-BLK1) Prepared & Analyzed: 09/28/23										
Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	42.9		ug/L	50.0		85.8	70-130			
LCS (B3I2801-BS1) Prepared & Analyzed: 09/28/23										
Gasoline Range Organics (GRO)	501	20	ug/L	500		100	75-125			
Surrogate: a,a,a-Trifluorotoluene	54.3		ug/L	50.0		109	70-130			
LCS Dup (B3I2801-BSD1) Prepared & Analyzed: 09/28/23										
Gasoline Range Organics (GRO)	444	20	ug/L	500		88.7	75-125	12.1	30	
Surrogate: a,a,a-Trifluorotoluene	52.5		ug/L	50.0		105	70-130			
Duplicate (B3I2801-DUP1) Source: 3I26011-01 Prepared & Analyzed: 09/28/23										
Gasoline Range Organics (GRO)	372	20	ug/L		456			20.2	30	
Surrogate: a,a,a-Trifluorotoluene	58.7		ug/L	50.0		117	70-130			
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3I2801 - *** DEFAULT PREP ***</i>										
Duplicate (B3I2801-DUP1) Source: 3I26011-01 Prepared & Analyzed: 09/28/23										
Total VOCs as Hexane	62.4	4.9	ppmv		74.6			17.7	30	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335232
Date Received: 09/26/23
Date Reported: 10/17/23

Special Notes

A handwritten signature in black ink, appearing to be 'VA' or similar, located above the name 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

27376

Page 1 of 1

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

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

Client I.D.	Date	Time	Sample Matrix	No. of Cont	Please enter the TAT Turnaround Codes ** below		Special Instructions
					Total VOCs Gas 8075	Total VOCs Hexane 8075	
Trunkline#1 (East)	9/26/25	1120	Air	1	✓	✓	VOC's reported as
Trunkline#2 (South)		1118	Air	1	✓	✓	GRO (detection limit
Trunkline#3 (Central S)		1113	Air	1	✓	✓	=4.9 ppmv) and
Trunkline#4 (Central E)		1116	Air	1	✓	✓	VOCs as Hexane
Trunkline#5 (Central W)		1110	Air	1	✓	✓	(detection limit =
Trunkline#6 (East)		1124	Air	1	✓	✓	4.9 ppmv)
Trunkline#7 (East)		1122	Air	1	✓	✓	Benzene (detection
							limit = 0.15 ppmv)
<p>PRIORITY</p> <p>9/27/25</p>							
<p>AS335232 / 3526013</p>							
Relinquished by [Signature]				Date	Time	Received by [Signature]	
Relinquished by [Signature]				Date	Time	Received by [Signature]	
Relinquished by [Signature]				Date	Time	Received by [Signature]	

23 SEP 26 11:44

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

October 17, 2023

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 091-NOR-001
A5335234 / 3I26015**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 09/26/23 16:44 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 circular stamp.

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335234
Date Received: 09/26/23
Date Reported: 10/17/23

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

HW-1	3I26015-01	Vapor	5	09/26/23 11:37	09/26/23 16:44
HW-5	3I26015-02	Vapor	5	09/26/23 11:44	09/26/23 16:44
HW-7	3I26015-03	Vapor	5	09/26/23 11:48	09/26/23 16:44
HW-9	3I26015-04	Vapor	5	09/26/23 11:41	09/26/23 16:44

VOCs Gasoline Range Organics Vapor

HW-1	3I26015-01	Vapor	5	09/26/23 11:37	09/26/23 16:44
HW-5	3I26015-02	Vapor	5	09/26/23 11:44	09/26/23 16:44
HW-7	3I26015-03	Vapor	5	09/26/23 11:48	09/26/23 16:44
HW-9	3I26015-04	Vapor	5	09/26/23 11:41	09/26/23 16:44

VOCs in Vapor as Hexane

HW-1	3I26015-01	Vapor	5	09/26/23 11:37	09/26/23 16:44
HW-5	3I26015-02	Vapor	5	09/26/23 11:44	09/26/23 16:44
HW-7	3I26015-03	Vapor	5	09/26/23 11:48	09/26/23 16:44
HW-9	3I26015-04	Vapor	5	09/26/23 11:41	09/26/23 16:44

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335234
Date Received: 09/26/23
Date Reported: 10/17/23
Sampled: 09/26/23
Prepared: 09/29/23
Analyzed: 09/29/23

HW-1
3126015-01 (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	127 %	70-140
Dibromofluoromethane	104 %	70-140
Toluene-d8	124 %	70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335234
Date Received: 09/26/23
Date Reported: 10/17/23
Sampled: 09/26/23
Prepared: 09/29/23
Analyzed: 09/29/23

HW-5
3126015-02 (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	120 %	70-140
Dibromofluoromethane	99.6 %	70-140
Toluene-d8	122 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335234
Date Received: 09/26/23
Date Reported: 10/17/23
Sampled: 09/26/23
Prepared: 09/29/23
Analyzed: 09/29/23

HW-7

3126015-03 (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	<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	133 %	70-140
Dibromofluoromethane	102 %	70-140
Toluene-d8	128 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335234
Date Received: 09/26/23
Date Reported: 10/17/23
Sampled: 09/26/23
Prepared: 09/29/23
Analyzed: 09/29/23

HW-9
3126015-04 (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	135 %	70-140
Dibromofluoromethane	100 %	70-140
Toluene-d8	125 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335234
Date Received: 09/26/23
Date Reported: 10/17/23
Sampled: 09/26/23
Prepared: 09/29/23
Analyzed: 09/29/23

HW-1

3126015-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>				<u>%REC Limits</u>
a,a,a-Trifluorotoluene		97.2 %				70-130

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335234
Date Received: 09/26/23
Date Reported: 10/17/23
Sampled: 09/26/23
Prepared: 09/29/23
Analyzed: 09/29/23

HW-5

3126015-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>				<u>%REC Limits</u>
a,a,a-Trifluorotoluene		78.7 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335234
Date Received: 09/26/23
Date Reported: 10/17/23
Sampled: 09/26/23
Prepared: 09/29/23
Analyzed: 09/29/23

HW-7

3126015-03 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	46	ug/L	20	11	ppmv	4.9
Surrogates		%REC				%REC Limits
a,a,a-Trifluorotoluene		94.5 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)

Project No: 091-NOR-001

Project Name: DFSP Norwalk VES AQMD

Matrix: Vapor

Dilution: 1

Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335234

Date Received: 09/26/23

Date Reported: 10/17/23

Sampled: 09/26/23

Prepared: 09/29/23

Analyzed: 09/29/23

HW-9

3126015-04 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		91.4 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Method: VOCs in Vapor as Hexane

AA Project No: A5335234
Date Received: 09/26/23
Date Reported: 10/17/23
Units: ppmv

Date Sampled:	09/26/23	09/26/23	09/26/23	09/26/23
Date Prepared:	09/29/23	09/29/23	09/29/23	09/29/23
Date Analyzed:	09/29/23	09/29/23	09/29/23	09/29/23
AA ID No:	3I26015-01	3I26015-02	3I26015-03	3I26015-04
Client ID No:	HW-1	HW-5	HW-7	HW-9
Matrix:	Vapor	Vapor	Vapor	Vapor
Dilution Factor:	1	1	1	1
				MRL

VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	<4.9	<4.9	7.5	<4.9	4.9
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335234
Date Received: 09/26/23
Date Reported: 10/17/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control									
<i>Batch B3I2903 - *** DEFAULT PREP ***</i>									
Blank (B3I2903-BLK1)					Prepared & Analyzed: 09/29/23				
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>59.7</i>		<i>ug/L</i>	<i>50.0</i>		<i>119 70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>48.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>96.0 70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>57.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>115 70-140</i>			
LCS (B3I2903-BS1)					Prepared: 09/29/23 Analyzed: 09/30/23				
Benzene	23.3	0.50	ug/L	20.0		116 75-125			
Ethylbenzene	20.7	0.50	ug/L	20.0		104 75-125			
Methyl-tert-Butyl Ether (MTBE)	45.4	2.0	ug/L	40.0		113 75-125			
Toluene	21.7	0.50	ug/L	20.0		109 75-125			
o-Xylene	22.5	0.50	ug/L	20.0		113 75-125			
m,p-Xylenes	44.4	1.0	ug/L	40.0		111 75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>44.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>89.1 70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>58.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>116 70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>53.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>107 70-140</i>			
LCS Dup (B3I2903-BSD1)					Prepared & Analyzed: 09/29/23				
Benzene	17.8	0.50	ug/L	20.0		89.2 75-125	26.4	30	
Ethylbenzene	17.7	0.50	ug/L	20.0		88.5 75-125	15.8	30	
Methyl-tert-Butyl Ether (MTBE)	37.6	2.0	ug/L	40.0		93.9 75-125	18.8	30	
Toluene	17.9	0.50	ug/L	20.0		89.4 75-125	19.4	30	
o-Xylene	18.6	0.50	ug/L	20.0		93.1 75-125	19.0	30	
m,p-Xylenes	36.4	1.0	ug/L	40.0		91.1 75-125	19.7	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>46.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>93.7 70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>57.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>115 70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>56.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>113 70-140</i>			
Duplicate (B3I2903-DUP1)					Source: 3I26013-07 Prepared & Analyzed: 09/29/23				

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335234
Date Received: 09/26/23
Date Reported: 10/17/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B3I2903 - *** DEFAULT PREP ***</i>										
Duplicate (B3I2903-DUP1) Continued Source: 3I26013-07 Prepared & Analyzed: 09/29/23										
Benzene	0.750	0.25	ug/L		0.775			3.28	30	
Ethylbenzene	2.59	0.25	ug/L		2.89			10.9	30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L						30	
Toluene	<0.25	0.25	ug/L						30	
o-Xylene	1.92	0.25	ug/L		2.16			12.0	30	
m,p-Xylenes	1.72	0.50	ug/L		1.50			13.0	30	
Surrogate: 4-Bromofluorobenzene	54.5		ug/L	50.0		109	70-140			
Surrogate: Dibromofluoromethane	57.6		ug/L	50.0		115	70-140			
Surrogate: Toluene-d8	62.4		ug/L	50.0		125	70-140			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B3I2901 - *** DEFAULT PREP ***</i>										
Blank (B3I2901-BLK1) Prepared & Analyzed: 09/29/23										
Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	42.6		ug/L	50.0		85.3	70-130			
LCS (B3I2901-BS1) Prepared & Analyzed: 09/29/23										
Gasoline Range Organics (GRO)	448	20	ug/L	500		89.7	75-125			
Surrogate: a,a,a-Trifluorotoluene	47.0		ug/L	50.0		93.9	70-130			
LCS Dup (B3I2901-BSD1) Prepared & Analyzed: 09/29/23										
Gasoline Range Organics (GRO)	603	20	ug/L	500		121	75-125	29.4	30	
Surrogate: a,a,a-Trifluorotoluene	46.1		ug/L	50.0		92.2	70-130			

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335234
Date Received: 09/26/23
Date Reported: 10/17/23

Special Notes

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

Viorel Vasile
Operations Manager



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

enthalpy.com

Lab Job Number: 488976
Report Level: II
Report Date: 08/04/2023

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

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

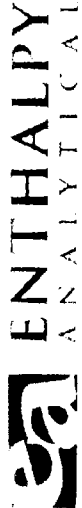
Imelda Morales
APEX - Signal Hill
1962 Freeman Avenue
Signal Hill, CA 90755

Lab Job #: 488976
Project No: PERMIT #22453_WW
Location: WW
Date Received: 07/21/23

Sample ID	Lab ID	Collected	Matrix
SURGE TANK_07-21-23	488976-001	07/21/23 10:44	Water
EFFLUENT_07-21-23	488976-002	07/21/23 10:12	Water

8-7
4.6/10-7

488976

CHAIN OF CUSTODY RECORD		ENTHALPY ANALYTICAL		Lab Number: 15881			
931 W. Barkley, Orange, CA 92666 Phone: (714) 771-6900 Fax: (714) 771-9933		www.enthalpy.com		Client ID: 15881			
Billing: Enthalpy Analytical c/o Monrose Environmental Group Inc. P.O. Box 741137, Los Angeles, CA 90074-1137		PROJECT INFORMATION		Page: 1 of 1			
CUSTOMER INFORMATION		PROJECT INFORMATION		Turn Around Time			
Company: APEX	Name: WW	Standard	X	****Turn around time will start the following day for samples received at the Lab after 3pm****			
Report To: Imelda Morales imelda.morales@apexcs.com, glenn.androsky@apexcs.com	Number: Permit #22453	72 Hours					
Email: sarvjan@apexcs.com	Address: 15306 Norwalk Blvd Norwalk, CA 90650	48 Hours					
Address: 1982 Freeman Ave Signal Hill, CA 90755	Global ID:	24 Hours		Analysis			
Phone: 562-597-1055 Fax:	P.O. #:	Same Day				Test Instruction & Comments	
Sampled By:	Matrix	Container	Pres.	Enthalpy Quote No.: APEX 012120 *TPHD - 1L amber, unpresserved *TPHG - 3x 40ml VOA vials w/HCl *624-VOCs - 3x 40ml VOA vials w/HCl			
1 Surge Tank_07-21-23	W	*	*			824-VOCs (BTEX & m,y xylene & Oxygenates)	
2 Effluent_07-21-23	W	*	*			8015 TPHG (GR)	
3						8015 TPHD (DR)	
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
Meter Readings		pH	Temp.	Retiquished By:	Received By:		
1) Begin: 1012	6.80	26.4	Glenn Androsky	Glenn Androsky			
End:			Print Name:	Print Name:			
2) Begin:			Date: 7-21-23	Date: 7/24/23			
End:			Time: 1430	Time: 1430			
3) Begin:			Retiquished By:	Received By:			
End:			Print Name:	Print Name:			
4) Begin:			Date:	Date:			
End:			Time:	Time:			



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1
 Client: APEX - Signal Hill Project: WW
 Date Received: 7/21/23 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: 8.7 #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: 4.6 #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: [Signature] Date: 7/21/23

Analysis Results for 488976

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

Lab Job #: 488976
 Project No: PERMIT #22453_WW
 Location: WW
 Date Received: 07/21/23

Sample ID: SURGE TANK_07-21-23	Lab ID: 488976-001	Collected: 07/21/23 10:44
Matrix: Water		

488976-001 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	318722	07/21/23	07/21/23	EJB
Isopropyl Ether (DIPE)	ND		ug/L	5.0	1	318722	07/21/23	07/21/23	EJB
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	1	318722	07/21/23	07/21/23	EJB
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	1	318722	07/21/23	07/21/23	EJB
tert-Butyl Alcohol (TBA)	35		ug/L	10	1	318722	07/21/23	07/21/23	EJB
m,p-Xylenes	ND		ug/L	10	1	318722	07/21/23	07/21/23	EJB
o-Xylene	ND		ug/L	5.0	1	318722	07/21/23	07/21/23	EJB
Benzene	ND		ug/L	5.0	1	318722	07/21/23	07/21/23	EJB
Toluene	ND		ug/L	0.5	1	318722	07/21/23	07/21/23	EJB
Ethylbenzene	ND		ug/L	5.0	1	318722	07/21/23	07/21/23	EJB
Xylene (total)	ND		ug/L	5.0	1	318722	07/21/23	07/21/23	EJB
Surrogates			Limits						
Dibromofluoromethane	99%		%REC	70-130	1	318722	07/21/23	07/21/23	EJB
1,2-Dichloroethane-d4	100%		%REC	70-130	1	318722	07/21/23	07/21/23	EJB
Toluene-d8	100%		%REC	70-130	1	318722	07/21/23	07/21/23	EJB
Bromofluorobenzene	100%		%REC	70-130	1	318722	07/21/23	07/21/23	EJB
Method: EPA 8015B									
Prep Method: EPA 5030B									
TPH Gasoline	68		ug/L	50	1	319370	08/01/23	08/01/23	SXR
Surrogates			Limits						
Bromofluorobenzene (FID)	128%		%REC	60-140	1	319370	08/01/23	08/01/23	SXR
Method: EPA 8015B									
Prep Method: EPA 3510C									
Diesel C10-C28	1.0		mg/L	0.095	0.95	318776	07/24/23	07/24/23	BJG
Surrogates			Limits						
n-Triacontane	96%		%REC	35-130	0.95	318776	07/24/23	07/24/23	BJG

Analysis Results for 488976

Sample ID: EFFLUENT_07-21-23	Lab ID: 488976-002	Collected: 07/21/23 10:12
Matrix: Water		

488976-002 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	318722	07/21/23	07/21/23	EJB
Isopropyl Ether (DIPE)	ND		ug/L	5.0	1	318722	07/21/23	07/21/23	EJB
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	1	318722	07/21/23	07/21/23	EJB
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	1	318722	07/21/23	07/21/23	EJB
tert-Butyl Alcohol (TBA)	ND		ug/L	10	1	318722	07/21/23	07/21/23	EJB
m,p-Xylenes	ND		ug/L	10	1	318722	07/21/23	07/21/23	EJB
o-Xylene	ND		ug/L	5.0	1	318722	07/21/23	07/21/23	EJB
Benzene	ND		ug/L	5.0	1	318722	07/21/23	07/21/23	EJB
Toluene	ND		ug/L	0.5	1	318722	07/21/23	07/21/23	EJB
Ethylbenzene	ND		ug/L	5.0	1	318722	07/21/23	07/21/23	EJB
Xylene (total)	ND		ug/L	5.0	1	318722	07/21/23	07/21/23	EJB
Surrogates			Limits						
Dibromofluoromethane	99%		%REC	70-130	1	318722	07/21/23	07/21/23	EJB
1,2-Dichloroethane-d4	102%		%REC	70-130	1	318722	07/21/23	07/21/23	EJB
Toluene-d8	99%		%REC	70-130	1	318722	07/21/23	07/21/23	EJB
Bromofluorobenzene	98%		%REC	70-130	1	318722	07/21/23	07/21/23	EJB
Method: EPA 8015B									
Prep Method: EPA 5030B									
TPH Gasoline	ND		ug/L	50	1	319370	08/01/23	08/01/23	SXR
Surrogates			Limits						
Bromofluorobenzene (FID)	107%		%REC	60-140	1	319370	08/01/23	08/01/23	SXR
Method: EPA 8015B									
Prep Method: EPA 3510C									
Diesel C10-C28	ND		mg/L	0.094	0.94	318776	07/24/23	07/24/23	BJG
Surrogates			Limits						
n-Triacontane	98%		%REC	35-130	0.94	318776	07/24/23	07/24/23	BJG

ND Not Detected

Batch QC

Type: Lab Control Sample	Lab ID: QC1081592	Batch: 318722
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1081592 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
MTBE	42.03	50.00	ug/L	84%		70-130
Isopropyl Ether (DIPE)	40.46	50.00	ug/L	81%		70-130
Ethyl tert-Butyl Ether (ETBE)	43.24	50.00	ug/L	86%		70-130
Methyl tert-Amyl Ether (TAME)	44.52	50.00	ug/L	89%		70-130
tert-Butyl Alcohol (TBA)	188.4	250.0	ug/L	75%		48-125
m,p-Xylenes	109.8	100.0	ug/L	110%		70-130
o-Xylene	51.75	50.00	ug/L	103%		70-130
Benzene	48.74	50.00	ug/L	97%		70-130
Toluene	50.84	50.00	ug/L	102%		70-130
Ethylbenzene	52.61	50.00	ug/L	105%		70-130
Surrogates						
Dibromofluoromethane	48.07	50.00	ug/L	96%		70-130
1,2-Dichloroethane-d4	46.33	50.00	ug/L	93%		70-130
Toluene-d8	51.59	50.00	ug/L	103%		70-130
Bromofluorobenzene	48.43	50.00	ug/L	97%		70-130

Type: Lab Control Sample Duplicate	Lab ID: QC1081593	Batch: 318722
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1081593 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
MTBE	43.32	50.00	ug/L	87%		70-130	3	30
Isopropyl Ether (DIPE)	41.75	50.00	ug/L	83%		70-130	3	30
Ethyl tert-Butyl Ether (ETBE)	44.36	50.00	ug/L	89%		70-130	3	30
Methyl tert-Amyl Ether (TAME)	46.67	50.00	ug/L	93%		70-130	5	30
tert-Butyl Alcohol (TBA)	200.8	250.0	ug/L	80%		48-125	6	30
m,p-Xylenes	106.9	100.0	ug/L	107%		70-130	3	30
o-Xylene	51.31	50.00	ug/L	103%		70-130	1	30
Benzene	49.04	50.00	ug/L	98%		70-130	1	30
Toluene	50.44	50.00	ug/L	101%		70-130	1	30
Ethylbenzene	51.92	50.00	ug/L	104%		70-130	1	30
Surrogates								
Dibromofluoromethane	47.99	50.00	ug/L	96%		70-130		
1,2-Dichloroethane-d4	47.26	50.00	ug/L	95%		70-130		
Toluene-d8	51.33	50.00	ug/L	103%		70-130		
Bromofluorobenzene	49.14	50.00	ug/L	98%		70-130		

Batch QC

Type: Matrix Spike	Lab ID: QC1081594	Batch: 318722
Matrix (Source ID): Water (488971-005)	Method: EPA 624.1	Prep Method: EPA 624.1

QC1081594 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
MTBE	54.81	5.327	50.00	ug/L	99%		75-130	1
Isopropyl Ether (DIPE)	45.32	0.5646	50.00	ug/L	90%		70-130	1
Ethyl tert-Butyl Ether (ETBE)	47.92	ND	50.00	ug/L	96%		70-130	1
Methyl tert-Amyl Ether (TAME)	50.58	ND	50.00	ug/L	101%		70-130	1
tert-Butyl Alcohol (TBA)	297.9	6.391	250.0	ug/L	117%		51-122	1
m,p-Xylenes	118.8	ND	100.0	ug/L	119%		70-131	1
o-Xylene	56.62	ND	50.00	ug/L	113%		70-130	1
Benzene	53.86	1.430	50.00	ug/L	105%		70-130	1
Toluene	55.76	ND	50.00	ug/L	112%		70-130	1
Ethylbenzene	58.18	ND	50.00	ug/L	116%		70-130	1
Surrogates								
Dibromofluoromethane	47.64		50.00	ug/L	95%		70-130	1
1,2-Dichloroethane-d4	48.01		50.00	ug/L	96%		70-130	1
Toluene-d8	52.64		50.00	ug/L	105%		70-130	1
Bromofluorobenzene	49.44		50.00	ug/L	99%		70-130	1

Type: Matrix Spike Duplicate	Lab ID: QC1081595	Batch: 318722
Matrix (Source ID): Water (488971-005)	Method: EPA 624.1	Prep Method: EPA 624.1

QC1081595 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
MTBE	51.14	5.327	50.00	ug/L	92%		75-130	7	30	1
Isopropyl Ether (DIPE)	42.28	0.5646	50.00	ug/L	83%		70-130	7	30	1
Ethyl tert-Butyl Ether (ETBE)	46.22	ND	50.00	ug/L	92%		70-130	4	30	1
Methyl tert-Amyl Ether (TAME)	47.50	ND	50.00	ug/L	95%		70-130	6	30	1
tert-Butyl Alcohol (TBA)	275.9	6.391	250.0	ug/L	108%		51-122	8	33	1
m,p-Xylenes	109.5	ND	100.0	ug/L	110%		70-131	8	30	1
o-Xylene	52.34	ND	50.00	ug/L	105%		70-130	8	30	1
Benzene	50.53	1.430	50.00	ug/L	98%		70-130	6	30	1
Toluene	51.48	ND	50.00	ug/L	103%		70-130	8	30	1
Ethylbenzene	53.65	ND	50.00	ug/L	107%		70-130	8	30	1
Surrogates										
Dibromofluoromethane	47.36		50.00	ug/L	95%		70-130			1
1,2-Dichloroethane-d4	47.72		50.00	ug/L	95%		70-130			1
Toluene-d8	51.52		50.00	ug/L	103%		70-130			1
Bromofluorobenzene	49.89		50.00	ug/L	100%		70-130			1

Batch QC

Type: Blank	Lab ID: QC1081598	Batch: 318722
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1081598 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
MTBE	ND		ug/L	5.0	07/21/23	07/21/23
Isopropyl Ether (DIPE)	ND		ug/L	5.0	07/21/23	07/21/23
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	07/21/23	07/21/23
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	07/21/23	07/21/23
tert-Butyl Alcohol (TBA)	ND		ug/L	10	07/21/23	07/21/23
m,p-Xylenes	ND		ug/L	10	07/21/23	07/21/23
o-Xylene	ND		ug/L	5.0	07/21/23	07/21/23
Benzene	ND		ug/L	5.0	07/21/23	07/21/23
Toluene	ND		ug/L	0.5	07/21/23	07/21/23
Ethylbenzene	ND		ug/L	5.0	07/21/23	07/21/23
Xylene (total)	ND		ug/L	5.0	07/21/23	07/21/23
Surrogates				Limits		
Dibromofluoromethane	100%		%REC	70-130	07/21/23	07/21/23
1,2-Dichloroethane-d4	97%		%REC	70-130	07/21/23	07/21/23
Toluene-d8	100%		%REC	70-130	07/21/23	07/21/23
Bromofluorobenzene	99%		%REC	70-130	07/21/23	07/21/23

Type: Lab Control Sample	Lab ID: QC1083634	Batch: 319370
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 5030B

QC1083634 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
TPH Gasoline	559.9	500.0	ug/L	112%		70-130
Surrogates						
Bromofluorobenzene (FID)	245.1	200.0	ug/L	123%		60-140

Type: Matrix Spike	Lab ID: QC1083635	Batch: 319370
Matrix (Source ID): Water (488976-001)	Method: EPA 8015B	Prep Method: EPA 5030B

QC1083635 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
TPH Gasoline	684.5	68.48	500.0	ug/L	123%		70-130	1
Surrogates								
Bromofluorobenzene (FID)	258.3		200.0	ug/L	129%		60-140	1

Batch QC

Type: Matrix Spike Duplicate	Lab ID: QC1083636	Batch: 319370
Matrix (Source ID): Water (488976-001)	Method: EPA 8015B	Prep Method: EPA 5030B

QC1083636 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
TPH Gasoline	677.7	68.48	500.0	ug/L	122%	70-130	1	30	1	
Surrogates										
Bromofluorobenzene (FID)	254.9		200.0	ug/L	127%	60-140				1

Type: Blank	Lab ID: QC1083637	Batch: 319370
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 5030B

QC1083637 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
TPH Gasoline	ND		ug/L	50	08/01/23	08/01/23
Surrogates						
				Limits		
Bromofluorobenzene (FID)	112%		%REC	60-140	08/01/23	08/01/23

Type: Blank	Lab ID: QC1081769	Batch: 318776
Matrix: Drinking Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC1081769 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Diesel C10-C28	ND		mg/L	0.10	07/24/23	07/24/23
Surrogates						
				Limits		
n-Triacontane	92%		%REC	35-130	07/24/23	07/24/23

Type: Lab Control Sample	Lab ID: QC1081821	Batch: 318776
Matrix: Drinking Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC1081821 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Diesel C10-C28	0.7737	1.000	mg/L	77%		42-120
Surrogates						
n-Triacontane	0.01818	0.02000	mg/L	91%		35-130

Type: Lab Control Sample Duplicate	Lab ID: QC1081822	Batch: 318776
Matrix: Drinking Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC1081822 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Diesel C10-C28	0.8500	1.000	mg/L	85%		42-120	9	36
Surrogates								
n-Triacontane	0.01845	0.02000	mg/L	92%		35-130		

ND Not Detected



Enthalpy Analytical
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enthalpy.com

Lab Job Number: 490575
Report Level: II
Report Date: 08/30/2023

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

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	Lab Job #:	490575
APEX - Signal Hill	Project No:	PERMIT #22453_WW
1962 Freeman Avenue	Location:	WW
Signal Hill, CA 90755	Date Received:	08/16/23

Sample ID	Lab ID	Collected	Matrix
EFFLUENT_GRAB_08-16-23	490575-001	08/16/23 11:35	Water
EFFLUENT_COMP_08-16-23	490575-002	08/16/23 11:20	Water

Case Narrative

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

Lab Job Number: 490575
Project No: PERMIT #22453_WW
Location: WW
Date Received: 08/16/23

This data package contains sample and QC results for two water samples, requested for the above referenced project on 08/16/23. The samples were received cold and intact.

Volatile Organics by GC/MS (EPA 624.1):

- High response was observed for 2-chloroethylvinylether in the CCV analyzed 08/22/23 10:24; affected data was qualified with "b".
- High recovery was observed for 2-chloroethylvinylether in the LCS for batch 320851; this analyte was not detected at or above the RL in the associated sample.
- No other analytical problems were encountered.

Total Suspended Solids (TSS) (SM2540D):

- High RPD was observed for total suspended solids in the SDUP for batch 320944; the parent sample was not a project sample.
- No other analytical problems were encountered.

DFSP Norwalk GWETS – LACSD Effluent Sampling: PERMIT #22453_WW
Additional VOCs requested for 624-VOCs analysis

Methylene Chloride
Chloroform
1,1,1-Trichloroethane
Carbon Tetrachloride
1,1-Dichloroethene
Trichloroethylene
Tetrachloroethylene
Bromodichloromethane
Dibromochloromethane
Bromoform
Chlorobenzene
Vinyl Chloride
1,1-Dichloroethane
1,1,2-Trichloroethane
1,2-Dichloroethane
trans-1,2-Dichloroethylene
Bromomethane
Chloroethane
2-Chloroethylvinylether
Chloromethane
1,2-Dichloropropane
cis-1,3-Dichloropropene
trans-1,3-Dichloropropene
1,1,2,2-Tetrachloroethane



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: APEX - Signal Hill

Project: PERMIT #22453_WW

Date Received: 8/16/23

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: 5.4 #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: 3.3 #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: 8/16/23

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

Analysis Results for 490575

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

Lab Job #: 490575
 Project No: PERMIT #22453_WW
 Location: WW
 Date Received: 08/16/23

Sample ID: EFFLUENT_GRAB_08-16-23	Lab ID: 490575-001 Matrix: Water	Collected: 08/16/23 11:35
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490575-001 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	320851	08/22/23	08/22/23	EJB
Isopropyl Ether (DIPE)	ND		ug/L	5.0	1	320851	08/22/23	08/22/23	EJB
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	1	320851	08/22/23	08/22/23	EJB
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	1	320851	08/22/23	08/22/23	EJB
tert-Butyl Alcohol (TBA)	ND		ug/L	10	1	320851	08/22/23	08/22/23	EJB
m,p-Xylenes	ND		ug/L	10	1	320851	08/22/23	08/22/23	EJB
o-Xylene	ND		ug/L	5.0	1	320851	08/22/23	08/22/23	EJB
Chloromethane	ND		ug/L	1.0	1	320851	08/22/23	08/22/23	EJB
Vinyl Chloride	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
Bromomethane	ND		ug/L	1.0	1	320851	08/22/23	08/22/23	EJB
Chloroethane	ND		ug/L	1.0	1	320851	08/22/23	08/22/23	EJB
1,1-Dichloroethene	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
Methylene Chloride	ND		ug/L	10	1	320851	08/22/23	08/22/23	EJB
trans-1,2-Dichloroethene	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
1,1-Dichloroethane	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
Chloroform	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
1,1,1-Trichloroethane	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
Carbon Tetrachloride	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
1,2-Dichloroethane	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
Benzene	ND		ug/L	5.0	1	320851	08/22/23	08/22/23	EJB
Trichloroethene	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
1,2-Dichloropropane	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
Bromodichloromethane	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
cis-1,3-Dichloropropene	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
Toluene	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
trans-1,3-Dichloropropene	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
1,1,2-Trichloroethane	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
Tetrachloroethene	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
Dibromochloromethane	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
Chlorobenzene	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
Ethylbenzene	ND		ug/L	5.0	1	320851	08/22/23	08/22/23	EJB
Bromoform	ND		ug/L	1.0	1	320851	08/22/23	08/22/23	EJB
1,1,2,2-Tetrachloroethane	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
2-Chloroethylvinylether	ND		ug/L	5.0	1	320851	08/22/23	08/22/23	EJB
Xylene (total)	ND		ug/L	5.0	1	320851	08/22/23	08/22/23	EJB

Analysis Results for 490575

490575-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Surrogates	Limits								
Dibromofluoromethane	113%		%REC	70-130	1	320851	08/22/23	08/22/23	EJB
1,2-Dichloroethane-d4	97%		%REC	70-130	1	320851	08/22/23	08/22/23	EJB
Toluene-d8	100%		%REC	70-130	1	320851	08/22/23	08/22/23	EJB
Bromofluorobenzene	100%		%REC	70-130	1	320851	08/22/23	08/22/23	EJB
Method: EPA 625.1									
Prep Method: EPA 3510C									
Benzoic acid	ND		ug/L	47	0.93	320586	08/17/23	08/19/23	TJW
Benzidine	ND		ug/L	47	0.93	320586	08/17/23	08/19/23	TJW
Benzyl alcohol	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
4-Chloroaniline	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
Dibenzofuran	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
2-Methylphenol	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
2-Methylnaphthalene	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
2-Nitroaniline	ND		ug/L	47	0.93	320586	08/17/23	08/19/23	TJW
3-Nitroaniline	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
4-Nitroaniline	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
2,4,5-Trichlorophenol	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
N-Nitrosodimethylamine	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
Phenol	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
bis(2-Chloroethyl)ether	ND		ug/L	23	0.93	320586	08/17/23	08/19/23	TJW
2-Chlorophenol	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
1,3-Dichlorobenzene	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
1,4-Dichlorobenzene	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
1,2-Dichlorobenzene	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
bis(2-Chloroisopropyl) ether	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
N-Nitroso-di-n-propylamine	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
Hexachloroethane	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
Nitrobenzene	ND		ug/L	23	0.93	320586	08/17/23	08/19/23	TJW
Isophorone	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
2-Nitrophenol	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
2,4-Dimethylphenol	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
bis(2-Chloroethoxy)methane	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
2,4-Dichlorophenol	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
1,2,4-Trichlorobenzene	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
Naphthalene	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
Hexachlorobutadiene	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
4-Chloro-3-methylphenol	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
Hexachlorocyclopentadiene	ND		ug/L	23	0.93	320586	08/17/23	08/19/23	TJW
2,4,6-Trichlorophenol	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
2-Chloronaphthalene	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
Dimethylphthalate	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
Acenaphthylene	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
2,6-Dinitrotoluene	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
Acenaphthene	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
2,4-Dinitrophenol	ND		ug/L	47	0.93	320586	08/17/23	08/19/23	TJW

Analysis Results for 490575

490575-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
4-Nitrophenol	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
2,4-Dinitrotoluene	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
Diethylphthalate	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
Fluorene	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
4-Chlorophenyl-phenylether	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
4,6-Dinitro-2-methylphenol	ND		ug/L	47	0.93	320586	08/17/23	08/19/23	TJW
N-Nitrosodiphenylamine	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
1,2-diphenylhydrazine (as azobenzene)	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
4-Bromophenyl-phenylether	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
Hexachlorobenzene	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
Pentachlorophenol	ND		ug/L	23	0.93	320586	08/17/23	08/19/23	TJW
Phenanthrene	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
Anthracene	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
Di-n-butylphthalate	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
Fluoranthene	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
Pyrene	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
Butylbenzylphthalate	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
3,3'-Dichlorobenzidine	ND		ug/L	23	0.93	320586	08/17/23	08/19/23	TJW
Benzo(a)anthracene	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
Chrysene	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
bis(2-Ethylhexyl)phthalate	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
Di-n-octylphthalate	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
Benzo(b)fluoranthene	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
Benzo(k)fluoranthene	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
Benzo(a)pyrene	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
Indeno(1,2,3-cd)pyrene	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
Dibenz(a,h)anthracene	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
Benzo(g,h,i)perylene	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
3-,4-Methylphenol	ND		ug/L	9.3	0.93	320586	08/17/23	08/19/23	TJW
Surrogates	Limits								
2-Fluorophenol	27%		%REC	10-140	0.93	320586	08/17/23	08/19/23	TJW
Phenol-d6	18%		%REC	10-140	0.93	320586	08/17/23	08/19/23	TJW
2,4,6-Tribromophenol	56%		%REC	12-140	0.93	320586	08/17/23	08/19/23	TJW
Nitrobenzene-d5	51%		%REC	10-140	0.93	320586	08/17/23	08/19/23	TJW
2-Fluorobiphenyl	48%		%REC	11-140	0.93	320586	08/17/23	08/19/23	TJW
Terphenyl-d14	87%		%REC	20-140	0.93	320586	08/17/23	08/19/23	TJW
Method: SM 2550B									
Field Source Temperature	28.4		deg C		1	320609	08/16/23 11:35	08/16/23 11:35	SBC
Method: SM 4500-H+ B									
Field pH	8.1		SU		1	320609	08/16/23 11:35	08/16/23 11:35	SBC
Method: SM 4500-S2-D									
Prep Method: METHOD									
Dissolved Sulfide	ND		mg/L	0.10	1	320589	08/17/23 14:00	08/17/23 14:20	TSM

Analysis Results for 490575

Sample ID: EFFLUENT_COMP_08-16-23	Lab ID: 490575-002 Matrix: Water	Collected: 08/16/23 11:20
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490575-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM2540D Prep Method: METHOD									
Total Suspended Solids	2.6		mg/L	0.5	1	320944	08/22/23	08/24/23	MMA
Method: SM5220D Prep Method: METHOD									
Chemical Oxygen Demand	130		mg/L	4.0	1	320588	08/17/23	08/17/23	TSM

ND Not Detected

Batch QC

Type: Lab Control Sample	Lab ID: QC1088490	Batch: 320851
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1088490 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
MTBE	46.42	50.00	ug/L	93%		70-130
Isopropyl Ether (DIPE)	49.44	50.00	ug/L	99%		70-130
Ethyl tert-Butyl Ether (ETBE)	48.51	50.00	ug/L	97%		70-130
Methyl tert-Amyl Ether (TAME)	38.01	50.00	ug/L	76%		70-130
tert-Butyl Alcohol (TBA)	183.5	250.0	ug/L	73%		48-125
m,p-Xylenes	94.68	100.0	ug/L	95%		70-130
o-Xylene	46.82	50.00	ug/L	94%		70-130
Chloromethane	50.50	50.00	ug/L	101%		65-130
Vinyl Chloride	54.23	50.00	ug/L	108%		70-130
Bromomethane	41.87	50.00	ug/L	84%		57-151
Chloroethane	59.54	50.00	ug/L	119%		65-129
1,1-Dichloroethene	54.98	50.00	ug/L	110%		70-135
Methylene Chloride	50.73	50.00	ug/L	101%		70-130
trans-1,2-Dichloroethene	54.25	50.00	ug/L	109%		70-130
1,1-Dichloroethane	53.10	50.00	ug/L	106%		70-130
Chloroform	55.15	50.00	ug/L	110%		70-130
1,1,1-Trichloroethane	52.09	50.00	ug/L	104%		70-130
Carbon Tetrachloride	50.69	50.00	ug/L	101%		70-130
1,2-Dichloroethane	44.33	50.00	ug/L	89%		70-130
Benzene	45.69	50.00	ug/L	91%		70-130
Trichloroethene	46.95	50.00	ug/L	94%		70-130
1,2-Dichloropropane	44.02	50.00	ug/L	88%		70-130
Bromodichloromethane	41.35	50.00	ug/L	83%		70-130
cis-1,3-Dichloropropene	38.76	50.00	ug/L	78%		70-130
Toluene	45.75	50.00	ug/L	91%		70-130
trans-1,3-Dichloropropene	37.67	50.00	ug/L	75%		70-130
1,1,2-Trichloroethane	42.58	50.00	ug/L	85%		70-130
Tetrachloroethene	49.63	50.00	ug/L	99%		70-130
Dibromochloromethane	44.13	50.00	ug/L	88%		70-130
Chlorobenzene	47.07	50.00	ug/L	94%		70-130
Ethylbenzene	48.07	50.00	ug/L	96%		70-130
Bromoform	42.71	50.00	ug/L	85%		70-130
1,1,2,2-Tetrachloroethane	40.81	50.00	ug/L	82%		70-130
Surrogates						
Dibromofluoromethane	58.82	50.00	ug/L	118%		70-130
1,2-Dichloroethane-d4	47.73	50.00	ug/L	95%		70-130
Toluene-d8	48.98	50.00	ug/L	98%		70-130
Bromofluorobenzene	49.09	50.00	ug/L	98%		70-130

Batch QC

Type: Lab Control Sample Duplicate	Lab ID: QC1088491	Batch: 320851
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1088491 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
MTBE	49.52	50.00	ug/L	99%		70-130	6	30
Isopropyl Ether (DIPE)	49.96	50.00	ug/L	100%		70-130	1	30
Ethyl tert-Butyl Ether (ETBE)	49.49	50.00	ug/L	99%		70-130	2	30
Methyl tert-Amyl Ether (TAME)	40.01	50.00	ug/L	80%		70-130	5	30
tert-Butyl Alcohol (TBA)	220.8	250.0	ug/L	88%		48-125	18	30
m,p-Xylenes	94.91	100.0	ug/L	95%		70-130	0	30
o-Xylene	47.51	50.00	ug/L	95%		70-130	1	30
Chloromethane	49.42	50.00	ug/L	99%		65-130	2	30
Vinyl Chloride	52.26	50.00	ug/L	105%		70-130	4	30
Bromomethane	43.05	50.00	ug/L	86%		57-151	3	30
Chloroethane	56.20	50.00	ug/L	112%		65-129	6	30
1,1-Dichloroethene	54.04	50.00	ug/L	108%		70-135	2	30
Methylene Chloride	53.56	50.00	ug/L	107%		70-130	5	30
trans-1,2-Dichloroethene	54.51	50.00	ug/L	109%		70-130	0	30
1,1-Dichloroethane	53.08	50.00	ug/L	106%		70-130	0	30
Chloroform	55.32	50.00	ug/L	111%		70-130	0	30
1,1,1-Trichloroethane	51.01	50.00	ug/L	102%		70-130	2	30
Carbon Tetrachloride	49.52	50.00	ug/L	99%		70-130	2	30
1,2-Dichloroethane	46.26	50.00	ug/L	93%		70-130	4	30
Benzene	45.58	50.00	ug/L	91%		70-130	0	30
Trichloroethene	46.36	50.00	ug/L	93%		70-130	1	30
1,2-Dichloropropane	44.68	50.00	ug/L	89%		70-130	1	30
Bromodichloromethane	42.53	50.00	ug/L	85%		70-130	3	30
cis-1,3-Dichloropropene	40.39	50.00	ug/L	81%		70-130	4	30
Toluene	45.92	50.00	ug/L	92%		70-130	0	30
trans-1,3-Dichloropropene	40.03	50.00	ug/L	80%		70-130	6	30
1,1,2-Trichloroethane	46.10	50.00	ug/L	92%		70-130	8	30
Tetrachloroethene	49.08	50.00	ug/L	98%		70-130	1	30
Dibromochloromethane	47.18	50.00	ug/L	94%		70-130	7	30
Chlorobenzene	47.75	50.00	ug/L	96%		70-130	1	30
Ethylbenzene	48.10	50.00	ug/L	96%		70-130	0	30
Bromoform	47.20	50.00	ug/L	94%		70-130	10	30
1,1,2,2-Tetrachloroethane	44.66	50.00	ug/L	89%		70-130	9	30
Surrogates								
Dibromofluoromethane	57.93	50.00	ug/L	116%		70-130		
1,2-Dichloroethane-d4	47.83	50.00	ug/L	96%		70-130		
Toluene-d8	49.03	50.00	ug/L	98%		70-130		
Bromofluorobenzene	49.06	50.00	ug/L	98%		70-130		

Batch QC

Type: Lab Control Sample	Lab ID: QC1088495	Batch: 320851
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1088495 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
2-Chloroethylvinylether	116.8	50.00	ug/L	234%	b,*	10-130
Surrogates						
Dibromofluoromethane	57.04	50.00	ug/L	114%		70-130
1,2-Dichloroethane-d4	48.30	50.00	ug/L	97%		70-130
Toluene-d8	49.94	50.00	ug/L	100%		70-130
Bromofluorobenzene	49.36	50.00	ug/L	99%		70-130

Batch QC

Type: Blank	Lab ID: QC1088496	Batch: 320851
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1088496 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
MTBE	ND		ug/L	5.0	08/22/23	08/22/23
Isopropyl Ether (DIPE)	ND		ug/L	5.0	08/22/23	08/22/23
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	08/22/23	08/22/23
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	08/22/23	08/22/23
tert-Butyl Alcohol (TBA)	ND		ug/L	10	08/22/23	08/22/23
m,p-Xylenes	ND		ug/L	10	08/22/23	08/22/23
o-Xylene	ND		ug/L	5.0	08/22/23	08/22/23
Chloromethane	ND		ug/L	1.0	08/22/23	08/22/23
Vinyl Chloride	ND		ug/L	0.5	08/22/23	08/22/23
Bromomethane	ND		ug/L	1.0	08/22/23	08/22/23
Chloroethane	ND		ug/L	1.0	08/22/23	08/22/23
1,1-Dichloroethene	ND		ug/L	0.5	08/22/23	08/22/23
Methylene Chloride	ND		ug/L	10	08/22/23	08/22/23
trans-1,2-Dichloroethene	ND		ug/L	0.5	08/22/23	08/22/23
1,1-Dichloroethane	ND		ug/L	0.5	08/22/23	08/22/23
Chloroform	ND		ug/L	0.5	08/22/23	08/22/23
1,1,1-Trichloroethane	ND		ug/L	0.5	08/22/23	08/22/23
Carbon Tetrachloride	ND		ug/L	0.5	08/22/23	08/22/23
1,2-Dichloroethane	ND		ug/L	0.5	08/22/23	08/22/23
Benzene	ND		ug/L	5.0	08/22/23	08/22/23
Trichloroethene	ND		ug/L	0.5	08/22/23	08/22/23
1,2-Dichloropropane	ND		ug/L	0.5	08/22/23	08/22/23
Bromodichloromethane	ND		ug/L	0.5	08/22/23	08/22/23
cis-1,3-Dichloropropene	ND		ug/L	0.5	08/22/23	08/22/23
Toluene	ND		ug/L	0.5	08/22/23	08/22/23
trans-1,3-Dichloropropene	ND		ug/L	0.5	08/22/23	08/22/23
1,1,2-Trichloroethane	ND		ug/L	0.5	08/22/23	08/22/23
Tetrachloroethene	ND		ug/L	0.5	08/22/23	08/22/23
Dibromochloromethane	ND		ug/L	0.5	08/22/23	08/22/23
Chlorobenzene	ND		ug/L	0.5	08/22/23	08/22/23
Ethylbenzene	ND		ug/L	5.0	08/22/23	08/22/23
Bromoform	ND		ug/L	1.0	08/22/23	08/22/23
1,1,2,2-Tetrachloroethane	ND		ug/L	0.5	08/22/23	08/22/23
2-Chloroethylvinylether	ND		ug/L	5.0	08/22/23	08/22/23
Xylene (total)	ND		ug/L	5.0	08/22/23	08/22/23
Surrogates				Limits		
Dibromofluoromethane	113%		%REC	70-130	08/22/23	08/22/23
1,2-Dichloroethane-d4	96%		%REC	70-130	08/22/23	08/22/23
Toluene-d8	99%		%REC	70-130	08/22/23	08/22/23
Bromofluorobenzene	98%		%REC	70-130	08/22/23	08/22/23

Batch QC

Type: Blank	Lab ID: QC1087637	Batch: 320586
Matrix: Water	Method: EPA 625.1	Prep Method: EPA 3510C

QC1087637 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Benzoic acid	ND		ug/L	50	08/17/23	08/19/23
Benzidine	ND		ug/L	50	08/17/23	08/19/23
Benzyl alcohol	ND		ug/L	10	08/17/23	08/19/23
4-Chloroaniline	ND		ug/L	10	08/17/23	08/19/23
Dibenzofuran	ND		ug/L	10	08/17/23	08/19/23
2-Methylphenol	ND		ug/L	10	08/17/23	08/19/23
2-Methylnaphthalene	ND		ug/L	10	08/17/23	08/19/23
2-Nitroaniline	ND		ug/L	50	08/17/23	08/19/23
3-Nitroaniline	ND		ug/L	10	08/17/23	08/19/23
4-Nitroaniline	ND		ug/L	10	08/17/23	08/19/23
2,4,5-Trichlorophenol	ND		ug/L	10	08/17/23	08/19/23
N-Nitrosodimethylamine	ND		ug/L	10	08/17/23	08/19/23
Phenol	ND		ug/L	10	08/17/23	08/19/23
bis(2-Chloroethyl)ether	ND		ug/L	25	08/17/23	08/19/23
2-Chlorophenol	ND		ug/L	10	08/17/23	08/19/23
1,3-Dichlorobenzene	ND		ug/L	10	08/17/23	08/19/23
1,4-Dichlorobenzene	ND		ug/L	10	08/17/23	08/19/23
1,2-Dichlorobenzene	ND		ug/L	10	08/17/23	08/19/23
bis(2-Chloroisopropyl) ether	ND		ug/L	10	08/17/23	08/19/23
N-Nitroso-di-n-propylamine	ND		ug/L	10	08/17/23	08/19/23
Hexachloroethane	ND		ug/L	10	08/17/23	08/19/23
Nitrobenzene	ND		ug/L	25	08/17/23	08/19/23
Isophorone	ND		ug/L	10	08/17/23	08/19/23
2-Nitrophenol	ND		ug/L	10	08/17/23	08/19/23
2,4-Dimethylphenol	ND		ug/L	10	08/17/23	08/19/23
bis(2-Chloroethoxy)methane	ND		ug/L	10	08/17/23	08/19/23
2,4-Dichlorophenol	ND		ug/L	10	08/17/23	08/19/23
1,2,4-Trichlorobenzene	ND		ug/L	10	08/17/23	08/19/23
Naphthalene	ND		ug/L	10	08/17/23	08/19/23
Hexachlorobutadiene	ND		ug/L	10	08/17/23	08/19/23
4-Chloro-3-methylphenol	ND		ug/L	10	08/17/23	08/19/23
Hexachlorocyclopentadiene	ND		ug/L	25	08/17/23	08/19/23
2,4,6-Trichlorophenol	ND		ug/L	10	08/17/23	08/19/23
2-Chloronaphthalene	ND		ug/L	10	08/17/23	08/19/23
Dimethylphthalate	ND		ug/L	10	08/17/23	08/19/23
Acenaphthylene	ND		ug/L	10	08/17/23	08/19/23
2,6-Dinitrotoluene	ND		ug/L	10	08/17/23	08/19/23
Acenaphthene	ND		ug/L	10	08/17/23	08/19/23
2,4-Dinitrophenol	ND		ug/L	50	08/17/23	08/19/23
4-Nitrophenol	ND		ug/L	10	08/17/23	08/19/23
2,4-Dinitrotoluene	ND		ug/L	10	08/17/23	08/19/23
Diethylphthalate	ND		ug/L	10	08/17/23	08/19/23

Batch QC

QC1087637 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Fluorene	ND		ug/L	10	08/17/23	08/19/23
4-Chlorophenyl-phenylether	ND		ug/L	10	08/17/23	08/19/23
4,6-Dinitro-2-methylphenol	ND		ug/L	50	08/17/23	08/19/23
N-Nitrosodiphenylamine	ND		ug/L	10	08/17/23	08/19/23
1,2-diphenylhydrazine (as azobenzene)	ND		ug/L	10	08/17/23	08/19/23
4-Bromophenyl-phenylether	ND		ug/L	10	08/17/23	08/19/23
Hexachlorobenzene	ND		ug/L	10	08/17/23	08/19/23
Pentachlorophenol	ND		ug/L	25	08/17/23	08/19/23
Phenanthrene	ND		ug/L	10	08/17/23	08/19/23
Anthracene	ND		ug/L	10	08/17/23	08/19/23
Di-n-butylphthalate	ND		ug/L	10	08/17/23	08/19/23
Fluoranthene	ND		ug/L	10	08/17/23	08/19/23
Pyrene	ND		ug/L	10	08/17/23	08/19/23
Butylbenzylphthalate	ND		ug/L	10	08/17/23	08/19/23
3,3'-Dichlorobenzidine	ND		ug/L	25	08/17/23	08/19/23
Benzo(a)anthracene	ND		ug/L	10	08/17/23	08/19/23
Chrysene	ND		ug/L	10	08/17/23	08/19/23
bis(2-Ethylhexyl)phthalate	ND		ug/L	10	08/17/23	08/19/23
Di-n-octylphthalate	ND		ug/L	10	08/17/23	08/19/23
Benzo(b)fluoranthene	ND		ug/L	10	08/17/23	08/19/23
Benzo(k)fluoranthene	ND		ug/L	10	08/17/23	08/19/23
Benzo(a)pyrene	ND		ug/L	10	08/17/23	08/19/23
Indeno(1,2,3-cd)pyrene	ND		ug/L	10	08/17/23	08/19/23
Dibenz(a,h)anthracene	ND		ug/L	10	08/17/23	08/19/23
Benzo(g,h,i)perylene	ND		ug/L	10	08/17/23	08/19/23
3-,4-Methylphenol	ND		ug/L	10	08/17/23	08/19/23
Surrogates				Limits		
2-Fluorophenol	39%		%REC	20-140	08/17/23	08/19/23
Phenol-d6	24%		%REC	20-140	08/17/23	08/19/23
2,4,6-Tribromophenol	72%		%REC	20-140	08/17/23	08/19/23
Nitrobenzene-d5	66%		%REC	20-140	08/17/23	08/19/23
2-Fluorobiphenyl	64%		%REC	20-140	08/17/23	08/19/23
Terphenyl-d14	96%		%REC	20-140	08/17/23	08/19/23

Batch QC

Type: Lab Control Sample	Lab ID: QC1087638	Batch: 320586
Matrix: Water	Method: EPA 625.1	Prep Method: EPA 3510C

QC1087638 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
2,4,5-Trichlorophenol	60.14	75.00	ug/L	80%		38-120
Phenol	22.07	75.00	ug/L	29%		13-120
2-Chlorophenol	48.71	75.00	ug/L	65%		31-120
1,4-Dichlorobenzene	42.08	75.00	ug/L	56%		24-120
N-Nitroso-di-n-propylamine	57.69	75.00	ug/L	77%		32-120
2,4-Dimethylphenol	52.88	75.00	ug/L	71%		25-120
1,2,4-Trichlorobenzene	43.46	75.00	ug/L	58%		26-120
4-Chloro-3-methylphenol	56.59	75.00	ug/L	75%		39-120
Acenaphthene	52.73	75.00	ug/L	70%		33-120
4-Nitrophenol	28.58	75.00	ug/L	38%		12-120
2,4-Dinitrotoluene	69.09	75.00	ug/L	92%		46-120
Pentachlorophenol	54.40	75.00	ug/L	73%		37-120
Pyrene	68.82	75.00	ug/L	92%		47-120
Chrysene	63.31	75.00	ug/L	84%		48-120
Benzo(b)fluoranthene	68.17	75.00	ug/L	91%		46-120
Surrogates						
2-Fluorophenol	14.90	40.00	ug/L	37%		20-140
Phenol-d6	10.37	40.00	ug/L	26%		20-140
2,4,6-Tribromophenol	32.80	40.00	ug/L	82%		20-140
Nitrobenzene-d5	26.98	40.00	ug/L	67%		20-140
2-Fluorobiphenyl	24.71	40.00	ug/L	62%		20-140
Terphenyl-d14	34.92	40.00	ug/L	87%		20-140

Batch QC

Type: Matrix Spike	Lab ID: QC1087639	Batch: 320586
Matrix (Source ID): Water (490482-001)	Method: EPA 625.1	Prep Method: EPA 3510C

QC1087639 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
2,4,5-Trichlorophenol	7,313	ND	7500	ug/L	98%		28-130	100
Phenol	2,421	ND	7500	ug/L	32%		10-130	100
2-Chlorophenol	5,590	ND	7500	ug/L	75%		21-130	100
1,4-Dichlorobenzene	4,819	ND	7500	ug/L	64%		14-130	100
N-Nitroso-di-n-propylamine	7,156	ND	7500	ug/L	95%		22-130	100
2,4-Dimethylphenol	6,333	ND	7500	ug/L	84%		15-130	100
1,2,4-Trichlorobenzene	5,295	ND	7500	ug/L	71%		16-130	100
4-Chloro-3-methylphenol	6,980	ND	7500	ug/L	93%		29-130	100
Acenaphthene	6,269	ND	7500	ug/L	84%		23-130	100
4-Nitrophenol	3,043	ND	7500	ug/L	41%		10-130	100
2,4-Dinitrotoluene	7,873	ND	7500	ug/L	105%		36-130	100
Pentachlorophenol	6,109	ND	7500	ug/L	81%		27-130	100
Pyrene	7,744	ND	7500	ug/L	103%		37-130	100
Chrysene	7,197	ND	7500	ug/L	96%		38-130	100
Benzo(b)fluoranthene	7,914	ND	7500	ug/L	106%		36-130	100
Surrogates								
2-Fluorophenol	1,568		4000	ug/L	39%		10-140	100
Phenol-d6	1,142		4000	ug/L	29%		10-140	100
2,4,6-Tribromophenol	3,743		4000	ug/L	94%		12-140	100
Nitrobenzene-d5	3,285		4000	ug/L	82%		10-140	100
2-Fluorobiphenyl	3,110		4000	ug/L	78%		11-140	100
Terphenyl-d14	3,938		4000	ug/L	98%		20-140	100

Batch QC

Type: Matrix Spike Duplicate	Lab ID: QC1087640	Batch: 320586
Matrix (Source ID): Water (490482-001)	Method: EPA 625.1	Prep Method: EPA 3510C

QC1087640 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
2,4,5-Trichlorophenol	6,996	ND	7500	ug/L	93%		28-130	4	69	100
Phenol	2,219	ND	7500	ug/L	30%		10-130	9	72	100
2-Chlorophenol	5,256	ND	7500	ug/L	70%		21-130	6	72	100
1,4-Dichlorobenzene	4,443	ND	7500	ug/L	59%		14-130	8	74	100
N-Nitroso-di-n-propylamine	6,487	ND	7500	ug/L	86%		22-130	10	75	100
2,4-Dimethylphenol	5,956	ND	7500	ug/L	79%		15-130	6	74	100
1,2,4-Trichlorobenzene	4,717	ND	7500	ug/L	63%		16-130	12	73	100
4-Chloro-3-methylphenol	6,610	ND	7500	ug/L	88%		29-130	5	68	100
Acenaphthene	5,964	ND	7500	ug/L	80%		23-130	5	62	100
4-Nitrophenol	2,789	ND	7500	ug/L	37%		10-130	9	73	100
2,4-Dinitrotoluene	7,541	ND	7500	ug/L	101%		36-130	4	51	100
Pentachlorophenol	5,797	ND	7500	ug/L	77%		27-130	5	52	100
Pyrene	7,280	ND	7500	ug/L	97%		37-130	6	53	100
Chrysene	6,693	ND	7500	ug/L	89%		38-130	7	56	100
Benzo(b)fluoranthene	7,422	ND	7500	ug/L	99%		36-130	6	57	100
Surrogates										
2-Fluorophenol	1,515		4000	ug/L	38%		10-140			100
Phenol-d6	1,064		4000	ug/L	27%		10-140			100
2,4,6-Tribromophenol	3,591		4000	ug/L	90%		12-140			100
Nitrobenzene-d5	2,988		4000	ug/L	75%		10-140			100
2-Fluorobiphenyl	2,984		4000	ug/L	75%		11-140			100
Terphenyl-d14	3,711		4000	ug/L	93%		20-140			100

Type: Blank	Lab ID: QC1087652	Batch: 320589
Matrix: Water	Method: SM 4500-S2-D	Prep Method: METHOD

QC1087652 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Dissolved Sulfide	ND		mg/L	0.10	08/17/23 14:00	08/17/23 14:20

Type: Lab Control Sample	Lab ID: QC1087653	Batch: 320589
Matrix: Water	Method: SM 4500-S2-D	Prep Method: METHOD

QC1087653 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Dissolved Sulfide	0.9000	1.000	mg/L	90%		80-120

Batch QC

Type: Matrix Spike	Lab ID: QC1087654	Batch: 320589
Matrix (Source ID): Water (490502-001)	Method: SM 4500-S2-D	Prep Method: METHOD

QC1087654 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Dissolved Sulfide	0.9000	ND	1.000	mg/L	90%		80-120	1

Type: Matrix Spike Duplicate	Lab ID: QC1087655	Batch: 320589
Matrix (Source ID): Water (490502-001)	Method: SM 4500-S2-D	Prep Method: METHOD

QC1087655 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	DF
Dissolved Sulfide	0.9000	ND	1.000	mg/L	90%		80-120	0 20	1

Type: Blank	Lab ID: QC1088786	Batch: 320944
Matrix: Water	Method: SM2540D	Prep Method: METHOD

QC1088786 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Total Suspended Solids	ND		mg/L	0.5	08/22/23	08/24/23

Type: Sample Duplicate	Lab ID: QC1088797	Batch: 320944
Matrix (Source ID): Water (490461-001)	Method: SM2540D	Prep Method: METHOD

QC1088797 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Total Suspended Solids	6.400	6.500	mg/L		2	5	1

Type: Sample Duplicate	Lab ID: QC1088798	Batch: 320944
Matrix (Source ID): Water (490631-001)	Method: SM2540D	Prep Method: METHOD

QC1088798 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Total Suspended Solids	1,173	1000	mg/L		16*	5	1

Type: Blank	Lab ID: QC1087648	Batch: 320588
Matrix: Water	Method: SM5220D	Prep Method: METHOD

QC1087648 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Chemical Oxygen Demand	ND		mg/L	4.0	08/17/23	08/17/23

Batch QC

Type: Lab Control Sample	Lab ID: QC1087649	Batch: 320588
Matrix: Water	Method: SM5220D	Prep Method: METHOD

QC1087649 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Chemical Oxygen Demand	997.0	1000	mg/L	100%		80-120

Type: Matrix Spike	Lab ID: QC1087650	Batch: 320588
Matrix (Source ID): Water (490402-001)	Method: SM5220D	Prep Method: METHOD

QC1087650 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Chemical Oxygen Demand	1,166	176.0	1000	mg/L	99%		75-125	1

Type: Matrix Spike Duplicate	Lab ID: QC1087651	Batch: 320588
Matrix (Source ID): Water (490402-001)	Method: SM5220D	Prep Method: METHOD

QC1087651 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	Lim	DF
Chemical Oxygen Demand	1,162	176.0	1000	mg/L	99%		75-125	0	20	1

* Value is outside QC limits

ND Not Detected

b See narrative



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

enthalpy.com

Lab Job Number: 490576
Report Level: II
Report Date: 08/30/2023

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

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 #: 490576
Project No: PERMIT #22453_WW
Location: WW
Date Received: 08/16/23

Sample ID	Lab ID	Collected	Matrix
SURGE TANK_08-16-23	490576-001	08/16/23 12:06	Water
EFFLUENT_08-16-23	490576-002	08/16/23 11:42	Water

Case Narrative

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

Lab Job Number: 490576
Project No: PERMIT #22453_WW
Location: WW
Date Received: 08/16/23

This data package contains sample and QC results for two water samples, requested for the above referenced project on 08/16/23. The samples were received cold and intact.

TPH-Extractables by GC (EPA 8015B):

- Low recovery was observed for diesel C10-C28 in the BS for batch 320682. High RPD was also observed for diesel C10-C28 in the BS/BSD for batch 320682.
- No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 624.1):

- High response was observed for 2-chloroethylvinylether in the CCV analyzed 08/22/23 10:24; affected data was qualified with "b".
- High recovery was observed for 2-chloroethylvinylether in the LCS for batch 320851; this analyte was not detected at or above the RL in the associated samples.
- No other analytical problems were encountered.

490576

CHAIN OF CUSTODY RECORD	ENTHALPY ANALYTICAL	Lab Number: 15881
931 W. Barkley, Orange, CA 92688 Phone: (714) 771-6900 Fax: (714) 771-9633		Client ID: 15881
Billing: Enthalpy Analytical c/o Monterey Environmental Group Inc. P.O. Box 741137, Los Angeles, CA 90074-1137	www.enthalpy.com	Page: 1 of 1

CUSTOMER INFORMATION	PROJECT INFORMATION
Company: APEX	Name: WW
Report To: Imelda Morales imelda.morales@apex.com, glenn.andross@apex.com	Number: Permit #22453
Email: imelda.morales@apex.com glenn.andross@apex.com	Address: 15308 Norwalk Blvd Norwalk, CA 90680
Address: 1982 Freeman Ave Signal Hill, CA 90755	Global ID:
Phone: 562-597-1055 Fax:	P.O. #:
Sampled By:	

Sample ID	Date	Time	Matrix	Container	Pres.	Analysis		Test Instruction & Comments
						6015 TPHD (DRO)	6015 TPHG (GRO)	
1	Surge Tank_08-16-23	8-16-23	W	*	*	X	X	Enthalpy Quote No...APEX_012120
2	Effluent_08-16-23	1142	W	*	*	X	X	*TPHD - 1L amber, unpreserved
3								*TPHG - 3x 40ml VOA vials w/HCl
4								*624-VOCs - 3x 40ml VOA vials w/HCl
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								

Meter Readings	Received By:	Relinquished By:
1) Begin: _____	Glenn Andross	Glenn Andross
End: _____	Print Name: _____	Print Name: _____
2) Begin: _____	Date: 8-16-23 16:55	Date: 8/16/23 16:55
End: _____	Time: _____	Time: _____
3) Begin: _____	Date: _____	Date: _____
End: _____	Time: _____	Time: _____
4) Begin: _____	Date: _____	Date: _____
End: _____	Time: _____	Time: _____

5.4/3.3



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1
 Client: APEX - Signal Hill Project: PERMIT #22453_WW
 Date Received: 8/16/23 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: 5.4 #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: 3.3 #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: 8/16/23

Analysis Results for 490576

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

Lab Job #: 490576
 Project No: PERMIT #22453_WW
 Location: WW
 Date Received: 08/16/23

Sample ID: SURGE TANK_08-16-23 Lab ID: 490576-001 Collected: 08/16/23 12:06
Matrix: Water

490576-001 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	320851	08/22/23	08/22/23	EJB
Isopropyl Ether (DIPE)	ND		ug/L	5.0	1	320851	08/22/23	08/22/23	EJB
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	1	320851	08/22/23	08/22/23	EJB
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	1	320851	08/22/23	08/22/23	EJB
tert-Butyl Alcohol (TBA)	ND		ug/L	10	1	320851	08/22/23	08/22/23	EJB
m,p-Xylenes	ND		ug/L	10	1	320851	08/22/23	08/22/23	EJB
o-Xylene	ND		ug/L	5.0	1	320851	08/22/23	08/22/23	EJB
Chloromethane	ND		ug/L	1.0	1	320851	08/22/23	08/22/23	EJB
Vinyl Chloride	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
Bromomethane	ND		ug/L	1.0	1	320851	08/22/23	08/22/23	EJB
Chloroethane	ND		ug/L	1.0	1	320851	08/22/23	08/22/23	EJB
1,1-Dichloroethene	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
Methylene Chloride	ND		ug/L	10	1	320851	08/22/23	08/22/23	EJB
trans-1,2-Dichloroethene	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
1,1-Dichloroethane	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
Chloroform	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
1,1,1-Trichloroethane	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
Carbon Tetrachloride	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
1,2-Dichloroethane	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
Benzene	ND		ug/L	5.0	1	320851	08/22/23	08/22/23	EJB
Trichloroethene	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
1,2-Dichloropropane	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
Bromodichloromethane	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
cis-1,3-Dichloropropene	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
Toluene	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
trans-1,3-Dichloropropene	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
1,1,2-Trichloroethane	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
Tetrachloroethene	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
Dibromochloromethane	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
Chlorobenzene	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
Ethylbenzene	ND		ug/L	5.0	1	320851	08/22/23	08/22/23	EJB
Bromoform	ND		ug/L	1.0	1	320851	08/22/23	08/22/23	EJB
1,1,2,2-Tetrachloroethane	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
2-Chloroethylvinylether	ND		ug/L	5.0	1	320851	08/22/23	08/22/23	EJB
Xylene (total)	ND		ug/L	5.0	1	320851	08/22/23	08/22/23	EJB

Analysis Results for 490576

490576-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Surrogates			Limits						
Dibromofluoromethane	116%		%REC	70-130	1	320851	08/22/23	08/22/23	EJB
1,2-Dichloroethane-d4	97%		%REC	70-130	1	320851	08/22/23	08/22/23	EJB
Toluene-d8	99%		%REC	70-130	1	320851	08/22/23	08/22/23	EJB
Bromofluorobenzene	99%		%REC	70-130	1	320851	08/22/23	08/22/23	EJB
Method: EPA 8015B									
Prep Method: EPA 5030B									
TPH Gasoline	ND		ug/L	50	1	321156	08/25/23	08/25/23	SXR
Surrogates			Limits						
Bromofluorobenzene (FID)	101%		%REC	60-140	1	321156	08/25/23	08/25/23	SXR
Method: EPA 8015B									
Prep Method: EPA 3510C									
Diesel C10-C28	1.0		mg/L	0.094	0.94	320682	08/18/23	08/19/23	BJG
Surrogates			Limits						
n-Triacontane	93%		%REC	35-130	0.94	320682	08/18/23	08/19/23	BJG

Analysis Results for 490576

Sample ID: EFFLUENT_08-16-23

Lab ID: 490576-002

Collected: 08/16/23 11:42

Matrix: Water

490576-002 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	320851	08/22/23	08/22/23	EJB
Isopropyl Ether (DIPE)	ND		ug/L	5.0	1	320851	08/22/23	08/22/23	EJB
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	1	320851	08/22/23	08/22/23	EJB
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	1	320851	08/22/23	08/22/23	EJB
tert-Butyl Alcohol (TBA)	ND		ug/L	10	1	320851	08/22/23	08/22/23	EJB
m,p-Xylenes	ND		ug/L	10	1	320851	08/22/23	08/22/23	EJB
o-Xylene	ND		ug/L	5.0	1	320851	08/22/23	08/22/23	EJB
Chloromethane	ND		ug/L	1.0	1	320851	08/22/23	08/22/23	EJB
Vinyl Chloride	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
Bromomethane	ND		ug/L	1.0	1	320851	08/22/23	08/22/23	EJB
Chloroethane	ND		ug/L	1.0	1	320851	08/22/23	08/22/23	EJB
1,1-Dichloroethene	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
Methylene Chloride	ND		ug/L	10	1	320851	08/22/23	08/22/23	EJB
trans-1,2-Dichloroethene	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
1,1-Dichloroethane	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
Chloroform	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
1,1,1-Trichloroethane	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
Carbon Tetrachloride	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
1,2-Dichloroethane	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
Benzene	ND		ug/L	5.0	1	320851	08/22/23	08/22/23	EJB
Trichloroethene	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
1,2-Dichloropropane	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
Bromodichloromethane	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
cis-1,3-Dichloropropene	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
Toluene	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
trans-1,3-Dichloropropene	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
1,1,2-Trichloroethane	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
Tetrachloroethene	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
Dibromochloromethane	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
Chlorobenzene	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
Ethylbenzene	ND		ug/L	5.0	1	320851	08/22/23	08/22/23	EJB
Bromoform	ND		ug/L	1.0	1	320851	08/22/23	08/22/23	EJB
1,1,2,2-Tetrachloroethane	ND		ug/L	0.5	1	320851	08/22/23	08/22/23	EJB
2-Chloroethylvinylether	ND		ug/L	5.0	1	320851	08/22/23	08/22/23	EJB
Xylene (total)	ND		ug/L	5.0	1	320851	08/22/23	08/22/23	EJB
Surrogates									Limits
Dibromofluoromethane	117%		%REC	70-130	1	320851	08/22/23	08/22/23	EJB
1,2-Dichloroethane-d4	101%		%REC	70-130	1	320851	08/22/23	08/22/23	EJB
Toluene-d8	97%		%REC	70-130	1	320851	08/22/23	08/22/23	EJB
Bromofluorobenzene	98%		%REC	70-130	1	320851	08/22/23	08/22/23	EJB

Analysis Results for 490576

490576-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
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Method: EPA 8015B
 Prep Method: EPA 5030B

TPH Gasoline	ND		ug/L	50	1	321156	08/25/23	08/25/23	SXR
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Surrogates	Limits								
Bromofluorobenzene (FID)	116%		%REC	60-140	1	321156	08/25/23	08/25/23	SXR

Method: EPA 8015B
 Prep Method: EPA 3510C

Diesel C10-C28	ND		mg/L	0.093	0.93	320682	08/18/23	08/19/23	BJG
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Surrogates	Limits								
n-Triacontane	104%		%REC	35-130	0.93	320682	08/18/23	08/19/23	BJG

ND Not Detected

Batch QC

Type: Lab Control Sample	Lab ID: QC1088490	Batch: 320851
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1088490 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
MTBE	46.42	50.00	ug/L	93%		70-130
Isopropyl Ether (DIPE)	49.44	50.00	ug/L	99%		70-130
Ethyl tert-Butyl Ether (ETBE)	48.51	50.00	ug/L	97%		70-130
Methyl tert-Amyl Ether (TAME)	38.01	50.00	ug/L	76%		70-130
tert-Butyl Alcohol (TBA)	183.5	250.0	ug/L	73%		48-125
m,p-Xylenes	94.68	100.0	ug/L	95%		70-130
o-Xylene	46.82	50.00	ug/L	94%		70-130
Chloromethane	50.50	50.00	ug/L	101%		65-130
Vinyl Chloride	54.23	50.00	ug/L	108%		70-130
Bromomethane	41.87	50.00	ug/L	84%		57-151
Chloroethane	59.54	50.00	ug/L	119%		65-129
1,1-Dichloroethene	54.98	50.00	ug/L	110%		70-135
Methylene Chloride	50.73	50.00	ug/L	101%		70-130
trans-1,2-Dichloroethene	54.25	50.00	ug/L	109%		70-130
1,1-Dichloroethane	53.10	50.00	ug/L	106%		70-130
Chloroform	55.15	50.00	ug/L	110%		70-130
1,1,1-Trichloroethane	52.09	50.00	ug/L	104%		70-130
Carbon Tetrachloride	50.69	50.00	ug/L	101%		70-130
1,2-Dichloroethane	44.33	50.00	ug/L	89%		70-130
Benzene	45.69	50.00	ug/L	91%		70-130
Trichloroethene	46.95	50.00	ug/L	94%		70-130
1,2-Dichloropropane	44.02	50.00	ug/L	88%		70-130
Bromodichloromethane	41.35	50.00	ug/L	83%		70-130
cis-1,3-Dichloropropene	38.76	50.00	ug/L	78%		70-130
Toluene	45.75	50.00	ug/L	91%		70-130
trans-1,3-Dichloropropene	37.67	50.00	ug/L	75%		70-130
1,1,2-Trichloroethane	42.58	50.00	ug/L	85%		70-130
Tetrachloroethene	49.63	50.00	ug/L	99%		70-130
Dibromochloromethane	44.13	50.00	ug/L	88%		70-130
Chlorobenzene	47.07	50.00	ug/L	94%		70-130
Ethylbenzene	48.07	50.00	ug/L	96%		70-130
Bromoform	42.71	50.00	ug/L	85%		70-130
1,1,2,2-Tetrachloroethane	40.81	50.00	ug/L	82%		70-130
Surrogates						
Dibromofluoromethane	58.82	50.00	ug/L	118%		70-130
1,2-Dichloroethane-d4	47.73	50.00	ug/L	95%		70-130
Toluene-d8	48.98	50.00	ug/L	98%		70-130
Bromofluorobenzene	49.09	50.00	ug/L	98%		70-130

Batch QC

Type: Lab Control Sample Duplicate	Lab ID: QC1088491	Batch: 320851
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1088491 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
MTBE	49.52	50.00	ug/L	99%		70-130	6	30
Isopropyl Ether (DIPE)	49.96	50.00	ug/L	100%		70-130	1	30
Ethyl tert-Butyl Ether (ETBE)	49.49	50.00	ug/L	99%		70-130	2	30
Methyl tert-Amyl Ether (TAME)	40.01	50.00	ug/L	80%		70-130	5	30
tert-Butyl Alcohol (TBA)	220.8	250.0	ug/L	88%		48-125	18	30
m,p-Xylenes	94.91	100.0	ug/L	95%		70-130	0	30
o-Xylene	47.51	50.00	ug/L	95%		70-130	1	30
Chloromethane	49.42	50.00	ug/L	99%		65-130	2	30
Vinyl Chloride	52.26	50.00	ug/L	105%		70-130	4	30
Bromomethane	43.05	50.00	ug/L	86%		57-151	3	30
Chloroethane	56.20	50.00	ug/L	112%		65-129	6	30
1,1-Dichloroethene	54.04	50.00	ug/L	108%		70-135	2	30
Methylene Chloride	53.56	50.00	ug/L	107%		70-130	5	30
trans-1,2-Dichloroethene	54.51	50.00	ug/L	109%		70-130	0	30
1,1-Dichloroethane	53.08	50.00	ug/L	106%		70-130	0	30
Chloroform	55.32	50.00	ug/L	111%		70-130	0	30
1,1,1-Trichloroethane	51.01	50.00	ug/L	102%		70-130	2	30
Carbon Tetrachloride	49.52	50.00	ug/L	99%		70-130	2	30
1,2-Dichloroethane	46.26	50.00	ug/L	93%		70-130	4	30
Benzene	45.58	50.00	ug/L	91%		70-130	0	30
Trichloroethene	46.36	50.00	ug/L	93%		70-130	1	30
1,2-Dichloropropane	44.68	50.00	ug/L	89%		70-130	1	30
Bromodichloromethane	42.53	50.00	ug/L	85%		70-130	3	30
cis-1,3-Dichloropropene	40.39	50.00	ug/L	81%		70-130	4	30
Toluene	45.92	50.00	ug/L	92%		70-130	0	30
trans-1,3-Dichloropropene	40.03	50.00	ug/L	80%		70-130	6	30
1,1,2-Trichloroethane	46.10	50.00	ug/L	92%		70-130	8	30
Tetrachloroethene	49.08	50.00	ug/L	98%		70-130	1	30
Dibromochloromethane	47.18	50.00	ug/L	94%		70-130	7	30
Chlorobenzene	47.75	50.00	ug/L	96%		70-130	1	30
Ethylbenzene	48.10	50.00	ug/L	96%		70-130	0	30
Bromoform	47.20	50.00	ug/L	94%		70-130	10	30
1,1,2,2-Tetrachloroethane	44.66	50.00	ug/L	89%		70-130	9	30
Surrogates								
Dibromofluoromethane	57.93	50.00	ug/L	116%		70-130		
1,2-Dichloroethane-d4	47.83	50.00	ug/L	96%		70-130		
Toluene-d8	49.03	50.00	ug/L	98%		70-130		
Bromofluorobenzene	49.06	50.00	ug/L	98%		70-130		

Batch QC

Type: Lab Control Sample	Lab ID: QC1088495	Batch: 320851
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1088495 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
2-Chloroethylvinylether	116.8	50.00	ug/L	234%	b,*	10-130
Surrogates						
Dibromofluoromethane	57.04	50.00	ug/L	114%		70-130
1,2-Dichloroethane-d4	48.30	50.00	ug/L	97%		70-130
Toluene-d8	49.94	50.00	ug/L	100%		70-130
Bromofluorobenzene	49.36	50.00	ug/L	99%		70-130

Batch QC

Type: Blank	Lab ID: QC1088496	Batch: 320851
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1088496 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
MTBE	ND		ug/L	5.0	08/22/23	08/22/23
Isopropyl Ether (DIPE)	ND		ug/L	5.0	08/22/23	08/22/23
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	08/22/23	08/22/23
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	08/22/23	08/22/23
tert-Butyl Alcohol (TBA)	ND		ug/L	10	08/22/23	08/22/23
m,p-Xylenes	ND		ug/L	10	08/22/23	08/22/23
o-Xylene	ND		ug/L	5.0	08/22/23	08/22/23
Chloromethane	ND		ug/L	1.0	08/22/23	08/22/23
Vinyl Chloride	ND		ug/L	0.5	08/22/23	08/22/23
Bromomethane	ND		ug/L	1.0	08/22/23	08/22/23
Chloroethane	ND		ug/L	1.0	08/22/23	08/22/23
1,1-Dichloroethene	ND		ug/L	0.5	08/22/23	08/22/23
Methylene Chloride	ND		ug/L	10	08/22/23	08/22/23
trans-1,2-Dichloroethene	ND		ug/L	0.5	08/22/23	08/22/23
1,1-Dichloroethane	ND		ug/L	0.5	08/22/23	08/22/23
Chloroform	ND		ug/L	0.5	08/22/23	08/22/23
1,1,1-Trichloroethane	ND		ug/L	0.5	08/22/23	08/22/23
Carbon Tetrachloride	ND		ug/L	0.5	08/22/23	08/22/23
1,2-Dichloroethane	ND		ug/L	0.5	08/22/23	08/22/23
Benzene	ND		ug/L	5.0	08/22/23	08/22/23
Trichloroethene	ND		ug/L	0.5	08/22/23	08/22/23
1,2-Dichloropropane	ND		ug/L	0.5	08/22/23	08/22/23
Bromodichloromethane	ND		ug/L	0.5	08/22/23	08/22/23
cis-1,3-Dichloropropene	ND		ug/L	0.5	08/22/23	08/22/23
Toluene	ND		ug/L	0.5	08/22/23	08/22/23
trans-1,3-Dichloropropene	ND		ug/L	0.5	08/22/23	08/22/23
1,1,2-Trichloroethane	ND		ug/L	0.5	08/22/23	08/22/23
Tetrachloroethene	ND		ug/L	0.5	08/22/23	08/22/23
Dibromochloromethane	ND		ug/L	0.5	08/22/23	08/22/23
Chlorobenzene	ND		ug/L	0.5	08/22/23	08/22/23
Ethylbenzene	ND		ug/L	5.0	08/22/23	08/22/23
Bromoform	ND		ug/L	1.0	08/22/23	08/22/23
1,1,2,2-Tetrachloroethane	ND		ug/L	0.5	08/22/23	08/22/23
2-Chloroethylvinylether	ND		ug/L	5.0	08/22/23	08/22/23
Xylene (total)	ND		ug/L	5.0	08/22/23	08/22/23
Surrogates				Limits		
Dibromofluoromethane	113%		%REC	70-130	08/22/23	08/22/23
1,2-Dichloroethane-d4	96%		%REC	70-130	08/22/23	08/22/23
Toluene-d8	99%		%REC	70-130	08/22/23	08/22/23
Bromofluorobenzene	98%		%REC	70-130	08/22/23	08/22/23

Batch QC

Type: Blank	Lab ID: QC1087967	Batch: 320682
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC1087967 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Diesel C10-C28	ND		mg/L	0.10	08/18/23	08/19/23
Surrogates				Limits		
n-Triacontane	89%		%REC	35-130	08/18/23	08/19/23

Type: Lab Control Sample	Lab ID: QC1087968	Batch: 320682
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC1087968 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Diesel C10-C28	0.1483	1.000	mg/L	15%	*	42-120
Surrogates						
n-Triacontane	0.007284	0.02000	mg/L	36%		35-130

Type: Lab Control Sample Duplicate	Lab ID: QC1087969	Batch: 320682
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC1087969 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Diesel C10-C28	0.8493	1.000	mg/L	85%		42-120	141*	36
Surrogates								
n-Triacontane	0.01872	0.02000	mg/L	94%		35-130		

Type: Lab Control Sample	Lab ID: QC1089496	Batch: 321156
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 5030B

QC1089496 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
TPH Gasoline	437.1	500.0	ug/L	87%		70-130
Surrogates						
Bromofluorobenzene (FID)	247.3	200.0	ug/L	124%		60-140

Type: Matrix Spike	Lab ID: QC1089497	Batch: 321156
Matrix (Source ID): Water (490698-001)	Method: EPA 8015B	Prep Method: EPA 5030B

QC1089497 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
TPH Gasoline	548.5	14.77	500.0	ug/L	107%		70-130	1
Surrogates								
Bromofluorobenzene (FID)	245.9		200.0	ug/L	123%		60-140	1

Batch QC

Type: Matrix Spike Duplicate	Lab ID: QC1089498	Batch: 321156
Matrix (Source ID): Water (490698-001)	Method: EPA 8015B	Prep Method: EPA 5030B

QC1089498 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
TPH Gasoline	489.0	14.77	500.0	ug/L	95%		70-130	11	30	1
Surrogates										
Bromofluorobenzene (FID)	225.3		200.0	ug/L	113%		60-140			1

Type: Blank	Lab ID: QC1089499	Batch: 321156
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 5030B

QC1089499 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
TPH Gasoline	ND		ug/L	50	08/25/23	08/25/23
Surrogates				Limits		
Bromofluorobenzene (FID)	109%		%REC	60-140	08/25/23	08/25/23

* Value is outside QC limits

ND Not Detected

b See narrative



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

enthalpy.com

Lab Job Number: 493011
Report Level: II
Report Date: 10/11/2023

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

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	Lab Job #:	493011
APEX - Signal Hill	Project No:	PERMIT #22453_WW
1962 Freeman Avenue	Location:	WW
Signal Hill, CA 90755	Date Received:	09/27/23

Sample ID	Lab ID	Collected	Matrix
SURGE TANK_09-27-23	493011-001	09/27/23 12:00	Water
EFFLUENT_09-27-23	493011-002	09/27/23 11:30	Water

Case Narrative

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

Lab Job Number: 493011
Project No: PERMIT #22453_WW
Location: WW
Date Received: 09/27/23

This data package contains sample and QC results for two water samples, requested for the above referenced project on 09/27/23. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

- High surrogate recoveries were observed for bromofluorobenzene (FID) in the MS/MSD for batch 323355; the parent sample was not a project sample.
- No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):

- Low surrogate recovery was observed for n-triacontane in SURGE TANK_09-27-23 (lab # 493011-001).
- No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 624.1):

- Low response was observed for 2-chloroethylvinylether in the CCV analyzed 09/30/23 12:36; this analyte met minimum response criteria, and affected data was qualified with "b".
- No other analytical problems were encountered.

493011

CHAIN OF CUSTODY RECORD		ENTHALPY ANALYTICAL				
931 W. Barkley, Orange, CA 92868 Phone: (714) 771-6900 Fax: (714) 771-9933 Billing: Enthalpy Analytical c/o Montrose Environmental Group Inc. P.O. Box 741137, Los Angeles, CA 90074-1137		Lab Number: 15881 Client ID: Page: 1 of 1				
www.enthalpy.com CUSTOMER INFORMATION		PROJECT INFORMATION Name: WW Number: Permit #22453 Address: 15306 Norwalk Blvd Norwalk, CA 90650				
COMPANY: APEX REPORT TO: Imelda Morales imelda.morales@apexcos.com, glenn.androski@apexcos.com EMAIL: kalvayan@apexcos.com ADDRESS: 1962 Freeman Ave Signal Hill, CA 90755 Phone: 562-597-1055 Fax:		ANALYSIS Matrix: W * X X X X Container: * * * * * Pres.: * * * * * Matrix: W W Container: * * Pres.: * * Matrix: W W Container: * * Pres.: * *				
TEST INSTRUCTION & COMMENTS Enthalpy Quote No.: APEX 012120 *TPHD - 1L amber, unpreserved *TPHG - 3x 40ml VOA vials w/HCl *624-VOCs - 3x 40ml VOA vials w/HCl		TURN AROUND TIME Standard: X 72 Hours 48 Hours 24 Hours Same Day				
METER READINGS		RECEIVED BY: 1 Received By: <i>Glenn Androski</i> Print Name: Glenn Androski Date: 9-27-23 Time: 1545 2 Received By: <i>Glenn Androski</i> Print Name: Glenn Androski Date: 9-27-23 Time: 1545 3 Received By: Print Name: Date: Time: 4 Received By: Print Name: Date: Time:				
1) Begin:	pH	7.03	Temp.	26.3	Time	11:30
End:						
2) Begin:						
End:						
3) Begin:						
End:						
4) Begin:						
End:						

30/8.2

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1
 Client: Apex - SH Project: Permit # 22453
 Date Received: 9/27/25 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: 8.2 #2: _____ #3: _____ #4: _____
(Acceptance range is < 5°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: 3.0 #2: _____ #3: _____ #4: _____

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

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: 9/27/25

Analysis Results for 493011

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

Lab Job #: 493011
 Project No: PERMIT #22453_WW
 Location: WW
 Date Received: 09/27/23

Sample ID: SURGE TANK_09-27-23 Lab ID: 493011-001 Collected: 09/27/23 12:00
Matrix: Water

493011-001 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	323515	09/30/23	09/30/23	LYZ
Isopropyl Ether (DIPE)	ND		ug/L	5.0	1	323515	09/30/23	09/30/23	LYZ
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	1	323515	09/30/23	09/30/23	LYZ
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	1	323515	09/30/23	09/30/23	LYZ
tert-Butyl Alcohol (TBA)	12		ug/L	10	1	323515	09/30/23	09/30/23	LYZ
m,p-Xylenes	ND		ug/L	10	1	323515	09/30/23	09/30/23	LYZ
o-Xylene	ND		ug/L	5.0	1	323515	09/30/23	09/30/23	LYZ
Chloromethane	ND		ug/L	1.0	1	323515	09/30/23	09/30/23	LYZ
Vinyl Chloride	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
Bromomethane	ND		ug/L	1.0	1	323515	09/30/23	09/30/23	LYZ
Chloroethane	ND		ug/L	1.0	1	323515	09/30/23	09/30/23	LYZ
1,1-Dichloroethene	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
Methylene Chloride	ND		ug/L	10	1	323515	09/30/23	09/30/23	LYZ
trans-1,2-Dichloroethene	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
1,1-Dichloroethane	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
Chloroform	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
1,1,1-Trichloroethane	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
Carbon Tetrachloride	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
1,2-Dichloroethane	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
Benzene	ND		ug/L	5.0	1	323515	09/30/23	09/30/23	LYZ
Trichloroethene	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
1,2-Dichloropropane	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
Bromodichloromethane	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
cis-1,3-Dichloropropene	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
Toluene	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
trans-1,3-Dichloropropene	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
1,1,2-Trichloroethane	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
Tetrachloroethene	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
Dibromochloromethane	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
Chlorobenzene	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
Ethylbenzene	ND		ug/L	5.0	1	323515	09/30/23	09/30/23	LYZ
Bromoform	ND		ug/L	1.0	1	323515	09/30/23	09/30/23	LYZ
1,1,2,2-Tetrachloroethane	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
2-Chloroethylvinylether	ND		ug/L	5.0	1	323515	09/30/23	09/30/23	LYZ
Xylene (total)	ND		ug/L	5.0	1	323515	09/30/23	09/30/23	LYZ

Analysis Results for 493011

493011-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Surrogates			Limits						
Dibromofluoromethane	95%		%REC	70-130	1	323515	09/30/23	09/30/23	LYZ
1,2-Dichloroethane-d4	93%		%REC	70-130	1	323515	09/30/23	09/30/23	LYZ
Toluene-d8	99%		%REC	70-130	1	323515	09/30/23	09/30/23	LYZ
Bromofluorobenzene	101%		%REC	70-130	1	323515	09/30/23	09/30/23	LYZ
Method: EPA 8015B									
Prep Method: EPA 5030B									
TPH Gasoline	ND		ug/L	50	1	323355	09/29/23	09/29/23	SXR
Surrogates			Limits						
Bromofluorobenzene (FID)	134%		%REC	60-140	1	323355	09/29/23	09/29/23	SXR
Method: EPA 8015B									
Prep Method: EPA 3510C									
Diesel C10-C28	0.27		mg/L	0.093	0.93	323514	09/30/23	10/01/23	SME
Surrogates			Limits						
n-Triacontane	4%	*	%REC	35-130	0.93	323514	09/30/23	10/01/23	SME

Analysis Results for 493011

Sample ID: EFFLUENT_09-27-23	Lab ID: 493011-002	Collected: 09/27/23 11:30
Matrix: Water		

493011-002 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	323515	09/30/23	09/30/23	LYZ
Isopropyl Ether (DIPE)	ND		ug/L	5.0	1	323515	09/30/23	09/30/23	LYZ
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	1	323515	09/30/23	09/30/23	LYZ
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	1	323515	09/30/23	09/30/23	LYZ
tert-Butyl Alcohol (TBA)	ND		ug/L	10	1	323515	09/30/23	09/30/23	LYZ
m,p-Xylenes	ND		ug/L	10	1	323515	09/30/23	09/30/23	LYZ
o-Xylene	ND		ug/L	5.0	1	323515	09/30/23	09/30/23	LYZ
Chloromethane	ND		ug/L	1.0	1	323515	09/30/23	09/30/23	LYZ
Vinyl Chloride	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
Bromomethane	ND		ug/L	1.0	1	323515	09/30/23	09/30/23	LYZ
Chloroethane	ND		ug/L	1.0	1	323515	09/30/23	09/30/23	LYZ
1,1-Dichloroethene	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
Methylene Chloride	ND		ug/L	10	1	323515	09/30/23	09/30/23	LYZ
trans-1,2-Dichloroethene	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
1,1-Dichloroethane	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
Chloroform	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
1,1,1-Trichloroethane	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
Carbon Tetrachloride	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
1,2-Dichloroethane	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
Benzene	ND		ug/L	5.0	1	323515	09/30/23	09/30/23	LYZ
Trichloroethene	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
1,2-Dichloropropane	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
Bromodichloromethane	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
cis-1,3-Dichloropropene	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
Toluene	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
trans-1,3-Dichloropropene	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
1,1,2-Trichloroethane	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
Tetrachloroethene	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
Dibromochloromethane	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
Chlorobenzene	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
Ethylbenzene	ND		ug/L	5.0	1	323515	09/30/23	09/30/23	LYZ
Bromoform	ND		ug/L	1.0	1	323515	09/30/23	09/30/23	LYZ
1,1,2,2-Tetrachloroethane	ND		ug/L	0.5	1	323515	09/30/23	09/30/23	LYZ
2-Chloroethylvinylether	ND		ug/L	5.0	1	323515	09/30/23	09/30/23	LYZ
Xylene (total)	ND		ug/L	5.0	1	323515	09/30/23	09/30/23	LYZ
Surrogates				Limits					
Dibromofluoromethane	94%		%REC	70-130	1	323515	09/30/23	09/30/23	LYZ
1,2-Dichloroethane-d4	93%		%REC	70-130	1	323515	09/30/23	09/30/23	LYZ
Toluene-d8	99%		%REC	70-130	1	323515	09/30/23	09/30/23	LYZ
Bromofluorobenzene	101%		%REC	70-130	1	323515	09/30/23	09/30/23	LYZ

Analysis Results for 493011

493011-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015B									
Prep Method: EPA 5030B									
TPH Gasoline	ND		ug/L	50	1	323355	09/29/23	09/29/23	SXR
Surrogates				Limits					
Bromofluorobenzene (FID)	126%		%REC	60-140	1	323355	09/29/23	09/29/23	SXR
Method: EPA 8015B									
Prep Method: EPA 3510C									
Diesel C10-C28	ND		mg/L	0.093	0.93	323514	09/30/23	10/01/23	SME
Surrogates				Limits					
n-Triacontane	56%		%REC	35-130	0.93	323514	09/30/23	10/01/23	SME

* Value is outside QC limits

ND Not Detected

Batch QC

Type: Lab Control Sample	Lab ID: QC1097198	Batch: 323515
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1097198 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
MTBE	48.14	50.00	ug/L	96%		70-130
Isopropyl Ether (DIPE)	49.73	50.00	ug/L	99%		70-130
Ethyl tert-Butyl Ether (ETBE)	45.76	50.00	ug/L	92%		70-130
Methyl tert-Amyl Ether (TAME)	40.52	50.00	ug/L	81%		70-130
tert-Butyl Alcohol (TBA)	212.1	250.0	ug/L	85%		48-125
m,p-Xylenes	93.38	100.0	ug/L	93%		70-130
o-Xylene	46.32	50.00	ug/L	93%		70-130
Chloromethane	50.09	50.00	ug/L	100%		65-130
Vinyl Chloride	51.79	50.00	ug/L	104%		70-130
Bromomethane	45.39	50.00	ug/L	91%		57-151
Chloroethane	47.38	50.00	ug/L	95%		65-129
1,1-Dichloroethene	49.07	50.00	ug/L	98%		70-135
Methylene Chloride	45.64	50.00	ug/L	91%		70-130
trans-1,2-Dichloroethene	49.63	50.00	ug/L	99%		70-130
1,1-Dichloroethane	50.56	50.00	ug/L	101%		70-130
Chloroform	45.85	50.00	ug/L	92%		70-130
1,1,1-Trichloroethane	47.16	50.00	ug/L	94%		70-130
Carbon Tetrachloride	50.39	50.00	ug/L	101%		70-130
1,2-Dichloroethane	40.18	50.00	ug/L	80%		70-130
Benzene	41.18	50.00	ug/L	82%		70-130
Trichloroethene	46.28	50.00	ug/L	93%		70-130
1,2-Dichloropropane	45.15	50.00	ug/L	90%		70-130
Bromodichloromethane	43.73	50.00	ug/L	87%		70-130
cis-1,3-Dichloropropene	46.42	50.00	ug/L	93%		70-130
Toluene	45.04	50.00	ug/L	90%		70-130
trans-1,3-Dichloropropene	41.96	50.00	ug/L	84%		70-130
1,1,2-Trichloroethane	45.38	50.00	ug/L	91%		70-130
Tetrachloroethene	46.98	50.00	ug/L	94%		70-130
Dibromochloromethane	46.04	50.00	ug/L	92%		70-130
Chlorobenzene	44.68	50.00	ug/L	89%		70-130
Ethylbenzene	46.43	50.00	ug/L	93%		70-130
Bromoform	44.60	50.00	ug/L	89%		70-130
1,1,2,2-Tetrachloroethane	42.95	50.00	ug/L	86%		70-130
Surrogates						
Dibromofluoromethane	51.48	50.00	ug/L	103%		70-130
1,2-Dichloroethane-d4	43.50	50.00	ug/L	87%		70-130
Toluene-d8	50.68	50.00	ug/L	101%		70-130
Bromofluorobenzene	50.58	50.00	ug/L	101%		70-130

Batch QC

Type: Lab Control Sample Duplicate	Lab ID: QC1097199	Batch: 323515
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1097199 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
MTBE	46.49	50.00	ug/L	93%		70-130	3	30
Isopropyl Ether (DIPE)	44.88	50.00	ug/L	90%		70-130	10	30
Ethyl tert-Butyl Ether (ETBE)	44.38	50.00	ug/L	89%		70-130	3	30
Methyl tert-Amyl Ether (TAME)	47.03	50.00	ug/L	94%		70-130	15	30
tert-Butyl Alcohol (TBA)	163.9	250.0	ug/L	66%		48-125	26	30
m,p-Xylenes	101.1	100.0	ug/L	101%		70-130	8	30
o-Xylene	50.27	50.00	ug/L	101%		70-130	8	30
Chloromethane	48.64	50.00	ug/L	97%		65-130	3	30
Vinyl Chloride	49.62	50.00	ug/L	99%		70-130	4	30
Bromomethane	42.77	50.00	ug/L	86%		57-151	6	30
Chloroethane	45.49	50.00	ug/L	91%		65-129	4	30
1,1-Dichloroethene	46.92	50.00	ug/L	94%		70-135	4	30
Methylene Chloride	43.35	50.00	ug/L	87%		70-130	5	30
trans-1,2-Dichloroethene	48.95	50.00	ug/L	98%		70-130	1	30
1,1-Dichloroethane	46.30	50.00	ug/L	93%		70-130	9	30
Chloroform	48.00	50.00	ug/L	96%		70-130	5	30
1,1,1-Trichloroethane	50.10	50.00	ug/L	100%		70-130	6	30
Carbon Tetrachloride	53.72	50.00	ug/L	107%		70-130	6	30
1,2-Dichloroethane	45.23	50.00	ug/L	90%		70-130	12	30
Benzene	48.86	50.00	ug/L	98%		70-130	17	30
Trichloroethene	50.97	50.00	ug/L	102%		70-130	10	30
1,2-Dichloropropane	49.38	50.00	ug/L	99%		70-130	9	30
Bromodichloromethane	47.57	50.00	ug/L	95%		70-130	8	30
cis-1,3-Dichloropropene	50.47	50.00	ug/L	101%		70-130	8	30
Toluene	48.98	50.00	ug/L	98%		70-130	8	30
trans-1,3-Dichloropropene	45.96	50.00	ug/L	92%		70-130	9	30
1,1,2-Trichloroethane	48.76	50.00	ug/L	98%		70-130	7	30
Tetrachloroethene	50.46	50.00	ug/L	101%		70-130	7	30
Dibromochloromethane	48.99	50.00	ug/L	98%		70-130	6	30
Chlorobenzene	48.24	50.00	ug/L	96%		70-130	8	30
Ethylbenzene	49.80	50.00	ug/L	100%		70-130	7	30
Bromoform	47.82	50.00	ug/L	96%		70-130	7	30
1,1,2,2-Tetrachloroethane	47.57	50.00	ug/L	95%		70-130	10	30
Surrogates								
Dibromofluoromethane	49.22	50.00	ug/L	98%		70-130		
1,2-Dichloroethane-d4	45.52	50.00	ug/L	91%		70-130		
Toluene-d8	50.00	50.00	ug/L	100%		70-130		
Bromofluorobenzene	50.68	50.00	ug/L	101%		70-130		

Batch QC

Type: Lab Control Sample	Lab ID: QC1097201	Batch: 323515
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1097201 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
2-Chloroethylvinylether	26.99	50.00	ug/L	54%	b	10-130
Surrogates						
Dibromofluoromethane	45.52	50.00	ug/L	91%		70-130
1,2-Dichloroethane-d4	46.16	50.00	ug/L	92%		70-130
Toluene-d8	50.61	50.00	ug/L	101%		70-130
Bromofluorobenzene	50.11	50.00	ug/L	100%		70-130

Batch QC

Type: Blank	Lab ID: QC1097202	Batch: 323515
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1097202 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
MTBE	ND		ug/L	5.0	09/30/23	09/30/23
Isopropyl Ether (DIPE)	ND		ug/L	5.0	09/30/23	09/30/23
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	09/30/23	09/30/23
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	09/30/23	09/30/23
tert-Butyl Alcohol (TBA)	ND		ug/L	10	09/30/23	09/30/23
m,p-Xylenes	ND		ug/L	10	09/30/23	09/30/23
o-Xylene	ND		ug/L	5.0	09/30/23	09/30/23
Chloromethane	ND		ug/L	1.0	09/30/23	09/30/23
Vinyl Chloride	ND		ug/L	0.5	09/30/23	09/30/23
Bromomethane	ND		ug/L	1.0	09/30/23	09/30/23
Chloroethane	ND		ug/L	1.0	09/30/23	09/30/23
1,1-Dichloroethene	ND		ug/L	0.5	09/30/23	09/30/23
Methylene Chloride	ND		ug/L	10	09/30/23	09/30/23
trans-1,2-Dichloroethene	ND		ug/L	0.5	09/30/23	09/30/23
1,1-Dichloroethane	ND		ug/L	0.5	09/30/23	09/30/23
Chloroform	ND		ug/L	0.5	09/30/23	09/30/23
1,1,1-Trichloroethane	ND		ug/L	0.5	09/30/23	09/30/23
Carbon Tetrachloride	ND		ug/L	0.5	09/30/23	09/30/23
1,2-Dichloroethane	ND		ug/L	0.5	09/30/23	09/30/23
Benzene	ND		ug/L	5.0	09/30/23	09/30/23
Trichloroethene	ND		ug/L	0.5	09/30/23	09/30/23
1,2-Dichloropropane	ND		ug/L	0.5	09/30/23	09/30/23
Bromodichloromethane	ND		ug/L	0.5	09/30/23	09/30/23
cis-1,3-Dichloropropene	ND		ug/L	0.5	09/30/23	09/30/23
Toluene	ND		ug/L	0.5	09/30/23	09/30/23
trans-1,3-Dichloropropene	ND		ug/L	0.5	09/30/23	09/30/23
1,1,2-Trichloroethane	ND		ug/L	0.5	09/30/23	09/30/23
Tetrachloroethene	ND		ug/L	0.5	09/30/23	09/30/23
Dibromochloromethane	ND		ug/L	0.5	09/30/23	09/30/23
Chlorobenzene	ND		ug/L	0.5	09/30/23	09/30/23
Ethylbenzene	ND		ug/L	5.0	09/30/23	09/30/23
Bromoform	ND		ug/L	1.0	09/30/23	09/30/23
1,1,2,2-Tetrachloroethane	ND		ug/L	0.5	09/30/23	09/30/23
2-Chloroethylvinylether	ND		ug/L	5.0	09/30/23	09/30/23
Xylene (total)	ND		ug/L	5.0	09/30/23	09/30/23
Surrogates				Limits		
Dibromofluoromethane	96%		%REC	70-130	09/30/23	09/30/23
1,2-Dichloroethane-d4	92%		%REC	70-130	09/30/23	09/30/23
Toluene-d8	101%		%REC	70-130	09/30/23	09/30/23
Bromofluorobenzene	111%		%REC	70-130	09/30/23	09/30/23

Batch QC

Type: Lab Control Sample	Lab ID: QC1096666	Batch: 323355
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 5030B

QC1096666 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
TPH Gasoline	565.9	500.0	ug/L	113%		70-130
Surrogates						
Bromofluorobenzene (FID)	239.1	200.0	ug/L	120%		60-140

Type: Matrix Spike	Lab ID: QC1096667	Batch: 323355
Matrix (Source ID): Water (492989-015)	Method: EPA 8015B	Prep Method: EPA 5030B

QC1096667 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
TPH Gasoline	587.9	ND	500.0	ug/L	118%		70-130	1
Surrogates								
Bromofluorobenzene (FID)	285.5		200.0	ug/L	143%	*	60-140	1

Type: Matrix Spike Duplicate	Lab ID: QC1096668	Batch: 323355
Matrix (Source ID): Water (492989-015)	Method: EPA 8015B	Prep Method: EPA 5030B

QC1096668 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
TPH Gasoline	566.3	ND	500.0	ug/L	113%		70-130	4	30	1
Surrogates										
Bromofluorobenzene (FID)	293.4		200.0	ug/L	147%	*	60-140			1

Type: Blank	Lab ID: QC1096669	Batch: 323355
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 5030B

QC1096669 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
TPH Gasoline	ND		ug/L	50	09/28/23	09/28/23
Surrogates						
Bromofluorobenzene (FID)	137%		%REC	60-140	09/28/23	09/28/23

Type: Blank	Lab ID: QC1097195	Batch: 323514
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC1097195 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Diesel C10-C28	ND		mg/L	0.10	09/30/23	09/30/23
Surrogates						
n-Triacontane	94%		%REC	35-130	09/30/23	09/30/23

Batch QC

Type: Lab Control Sample	Lab ID: QC1097196	Batch: 323514
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC1097196 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Diesel C10-C28	0.9042	1.000	mg/L	90%		42-120
Surrogates						
n-Triacontane	0.01842	0.02000	mg/L	92%		35-130

Type: Lab Control Sample Duplicate	Lab ID: QC1097197	Batch: 323514
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC1097197 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Diesel C10-C28	0.9405	1.000	mg/L	94%		42-120	4	36
Surrogates								
n-Triacontane	0.01913	0.02000	mg/L	96%		35-130		

* Value is outside QC limits

ND Not Detected

b See narrative

APPENDIX B
LNAPL HAZARDOUS WASTE MANIFESTS

LNAPL Hazardous Waste Manifests were not generated during this Reporting Period.

APPENDIX C

BIOSPARGE INFLUENCE TESTING SUMMARY



**APPENDIX C:
BIOSPARGE INFLUENCE TESTING SUMMARY
DFSP Norwalk
15306 Norwalk Boulevard, Norwalk, California
Source Group / Apex Project No. 091-NOR-001 Task 2-10**

INTRODUCTION

Apex performed influence testing of the existing biosparge system operating at the former Defense Fuel Support Point (DFSP) Norwalk facility located at 15306 Norwalk Boulevard, Norwalk, California (Site; Figure C1) during four field survey events in September 2023. The purpose of the testing was to evaluate the influence of the recently expanded biosparge system on nearby monitoring wells, investigate potential issues that could reduce treatment performance, and optimize system performance in targeted areas where hydrocarbon impacts appear to be recalcitrant based on dissolved concentration trends. Apex performed influence testing on a total of 15 monitoring wells targeted by 12 recently installed biosparge treatment wells. The soil lithology at the screens of all test wells is described as silts, fine to medium sands, and coarse sands. These monitoring wells are targeted for treatment by existing and recently installed biosparge treatment wells due to stable or increasing dissolved total petroleum hydrocarbon (TPH) concentration trends, indicating that the wells are located in areas of recalcitrant contamination (“hot-spot areas”). The objective of the testing summarized here is to confirm that these monitoring wells are adequately influenced by the air injected into the new and existing treatment wells.

The site layout and TPH distribution from the first semiannual 2023 monitoring event are presented in Figure C1. The biosparge system layout and generalized TPH-d concentration trends for selected nearby monitoring wells are presented in Figure C2. The monitoring well locations tested during this evaluation targeted by vertical and horizontal biosparge wells are presented in Figures C2 and C3, respectively. Field survey testing results are presented in Table C1. A summary table of recommendations for each of the areas near the 12 monitoring wells tested is presented as Table C2.

SUMMARY OF BIOSPARGE INFLUENCE TESTING

The following section summarizes results and observations collected during the biosparge influence surveys at the site. Field survey test results are presented in the attached tables, and include pressure responses, geochemical monitoring, and water levels at the nearby monitoring wells, and pressure readings from multiple locations along the conveyance lines between the system manifold and wellheads of each biosparge well tested.

Biosparge testing was performed using the existing system equipment, with the injection air supplied to the treatment wells via the recently installed 40 horsepower Kaeser ASD-40 rotary screw compressor. The system control solenoids were used to isolate air flow through the individual trunklines to the specific sparge control vault (SPCV) for testing the group of sparge wells controlled from the SPCV. Air flow to the individual sparge wells was controlled via valves in each SPCV. Supplied pressures to the SPCVs and wellheads were measured using Magnehelic® pressure gauges. Pressure responses at the monitoring points were measured using low-range Magnehelic differential pressure gauges. Geochemical monitoring parameters

included pH, electrical conductivity (EC), oxidation-reduction potential (ORP), temperature, and dissolved oxygen (DO) were measured with a YSI Pro DSS multiprobe. Depth to water was also measured using a Solinst Model 122 interface probe.

The following procedure was followed to collect the field survey data presented in Table C1 and repeated for each group of biosparge wells tested:

- All active soil vapor extraction systems were shutdown the day prior to testing.
- For each biosparge well, the corresponding biosparge trunkline was activated and trunkline injection pressure at the system manifold was recorded.
- At each monitoring well, depth to water was gauged and recorded, followed by measurements of pH, EC, ORP, groundwater temperature, and DO using the downhole probe deployed between 2 – 3 feet below the water table surface.
- Pressure monitoring caps were then installed on the monitoring well. The wells were allowed to equilibrate for at least 2 minutes and then wellhead pressure was measured using a low-range magnehelic gauge.

Based on the changes in monitoring parameters relative to conditions observed prior to the activation of the new treatment wells, 12 of the 14 monitoring wells tested appear to show varying degrees of influence from biosparging system operations. The pressure responses observed ranged from 0.35 to 9.0 inches of water column (“WC”) for the five central area monitoring wells tested. Pressure responses in the five eastern area wells ranged from 0.03 to 1.8”WC, and pressure responses for the three Hollifield Park wells ranged from 0.06 to 9.2”WC. In general, the magnitudes of pressure response in the Central Area wells tested were notably higher than what was observed during the system influence testing activities in 2021 (SGI, 2022¹); pressure responses from the most recent testing are also presented for comparison (where available) on Table C1.

The only monitoring well tested in the Western Area, GMW-31, was undergoing rehabilitation to improve the ongoing groundwater extraction performance. Only two rounds of monitoring data were collected on September 7 and September 29, 2023, and good pressure response was observed during both events (6.0 and 11.0”WC, respectively). Monitoring parameters from the only Southern Area well tested, GMW-10, did not indicate any influence from the nearby treatment well RW-39. However, Apex field staff identified a significant leak at the manifold connection for Trunkline #11 during the September 13, 2023 survey. The trunkline was subsequently turned off pending repair, and no additional measurements were collected from the targeted monitoring well GMW-10.

Geochemical parameters for wells sampled during the past two semiannual groundwater events conducted in October/November 2022 and May 2023, respectively, are presented in Table C1 for comparison. Changes in monitoring parameters (e.g. increased DO, ORP, and/or temperature), observed relative to the previous monitoring events generally correlated with elevated wellhead pressure responses, suggesting influence from the nearby biosparge well. The monitoring parameters were consistently elevated above levels observed during the previous monitoring events for the majority of wells tested, with the exception of low DO and ORP levels observed in Central Area wells GMW-7, TF-16, and TF-17R; low ORP levels Western Area well GMW-31, and in Hollifield Park wells GMW-62, GMW-68, and GMW-69; and fluctuating ORP levels in Eastern Area wells GMW-61, GMW-59, GMW-47, MW-13, and GMW-58. The monitoring wells in the Eastern Area and Hollifield Park indicated mixed and fluctuating

¹ SGI, 2022. *Remediation Status Report – Fourth Quarter 2021, Defense Fuel Support Point Norwalk*. February 11.

parameter results that did not consistently correlate with the slight increase in injection pressure during the September 13 and September 21, 2023 survey events. Depth to water measurements indicate that biosparge injection was causing groundwater mounding in 13 of the 15 wells tested.

TPH CONCENTRATION TREND EVALUATION

The generalized dissolved TPH, diesel range (TPH-d) concentration trend behavior for each well was color-coded (i.e. green = decreasing concentrations, yellow = stable concentrations, and red = increasing concentrations) and those color codes were used on Figure C2, and Table C2 for data interpretation. Concentration trend graphs for the 42 wells evaluated are included in Attachment A.

The historical analytical results indicated decreasing TPH-d concentration trends in 15 of the 44 wells evaluated (green on Figure C2). Stable TPH-d concentration trends were identified in 20 of the 44 wells evaluated (yellow on Figure C2). The monitoring wells with stable concentration trends are widely distributed throughout the treatment zone and only four wells are located greater than 35 feet from the nearest biosparge well (MW-9, GMW-67, GMW-57, and GMW-15). Ten monitoring wells with stable concentration trends are targeted by treatment wells installed as part of the recent system expansion, and the remaining five wells (GMW-21, TF-21, GMW-42, GMW-58, and MW-29) are within 35 feet of an existing biosparge well. Increasing TPH-d concentration trends were identified in 9 of the 44 wells evaluated (red on Figure C2); five of these nine monitoring wells are targeted by biosparge wells installed during the recent system expansion, and three monitoring wells are within 35 feet of an existing treatment well. Well GMW-18 is over 50 feet away from the closest biosparge well TFB-9, and while historical TPH-d concentrations have decreased significantly, the recent trend appears to be increasing; additional influence monitoring is warranted in this well. Concentrations are expected to decline in monitoring wells with stable or increasing TPH-d concentration trends after sustained operation of the expanded biosparge system, along with ongoing optimization efforts to improve performance of the existing treatment wells.

BIOSPARGE TESTING SUMMARY AND RECOMMENDATIONS

Based on the changes in monitoring parameters relative to conditions observed prior to the activation of the new treatment wells, 12 of the 14 monitoring wells tested appear to show varying degrees of influence from biosparging system operations. Specific recommendations for each of the 14 monitoring wells tested are summarized in Table C2. In summary:

- Operational adjustments and repairs will be performed to improve performance near the two monitoring wells that did not indicate influence, GMW-10 and TF-18.
 - The leak in biosparge trunkline #11 was identified and repaired during the week of October 9th and the treatment wells connected to the air supply trunkline are now active. Additional influence monitoring of well GMW-10 will be conducted during the 4Q 2023 reporting period to evaluate influence in that area.
 - Injection pressures will be tested at the wellhead of the biosparge well BSP-39 closest to monitoring well TF-18, and operational adjustments will be made to improve biosparge performance in that area. Additional influence monitoring will be conducted during the 4Q 2023 reporting period to evaluate those operational changes.
- Although generally indicative of influence from the nearby biosparge treatment wells, excessive groundwater mounding over extended injection periods can create localized

hydraulic gradients that could potentially mobilize the dissolved contaminant plume, particularly on the plume edges (e.g. Hollifield Park area wells GMW-62, GMW-68, and GMW-69). Apex will iteratively adjust the injection pressures to horizontal wells HAS-3 and HAS-4, reduce cycle durations to optimize influence in that area and minimize the potential for plume migration.

- Biosparge system cycling configuration will be adjusted iteratively to optimize air delivery to treatment wells targeting the remaining hot-spot areas. Approximately 1/3 of the biosparge well network will be turned off during the 4Q 2023 reporting period to focus treatment on those areas.
- Additional influence testing will be conducted during the 4Q 2023 reporting period, focusing on wells TF-18, GMW-10, and the Hollifield Park monitoring wells targeted by horizontal biosparge wells HAS-3 and HAS-4. Other monitoring wells in hot-spot areas to be tested include:
 - Western and Southern Areas: GMW-12, GMW-4R, TF-9R, and PZ-3
 - Central Area: GMW-15, GMW-18, GMW-21, GMW-43, TF-15, MW-29, TF-21 and TF-20R
 - Eastern Area: GW-16, GMW-58, and GMW-57

ATTACHMENTS:

FIGURE C1 – Total Petroleum Hydrocarbons in Groundwater, May 2023

FIGURE C2 – Biosparge Influence Evaluation, Third Quarter 2023

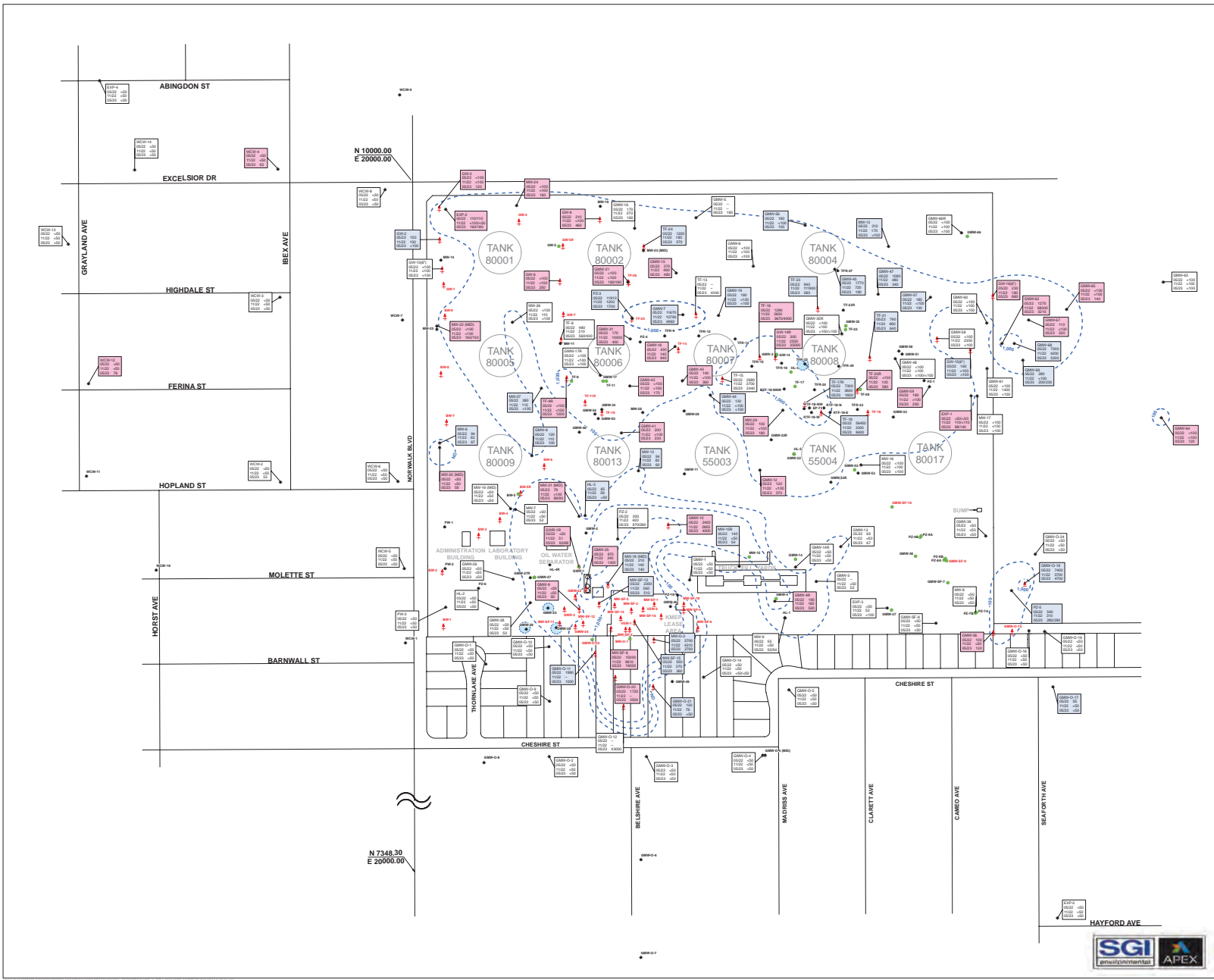
FIGURE C3: Influence Evaluation: Vertical Biosparge Wells

FIGURE C4: Influence Evaluation: Horizontal Biosparge Wells

TABLE C1 – Biosparge Influence Monitoring Results



TABLE C2 – Biosparge System Influence Evaluation Summary

ATTACHMENT A: TPH-d and TPH-g Concentration Trends





- ### Explanation
- GMW-5** ◆ Monitoring well and designation
 - VEW-1** ↓ Vapor extraction, groundwater extraction, total fluids, or free product extraction well used for site remediation
 - TF-17** ● Decommissioned well
- Total petroleum hydrocarbons (TPH) results in micrograms per liter (µg/L) for the three most recent semiannual events; where the databox is shown in white, the concentration of TPH has remained similar (concentration change is less than 10%) at that location since the first semiannual monitoring event of the previous year; or the dataset shown does not provide a basis for comparison.
- GMW-6** □ Where the databox is shown in red, the concentration of TPH has increased by 10% or more at that location since the first semiannual monitoring event of the previous year.
 - GMW-7** □ Where the databox is shown in blue, the concentration of TPH has decreased by 10% or more at that location since the first semiannual monitoring event of the previous year.
- <10 Not detected at or above laboratory reporting limit shown
 - - Not sampled/not analyzed
 - <100<100 Primary sample analytical result/duplicate sample analytical result (µg/L)
 - 1,000 Lines of equal TPH concentration (µg/L) in groundwater; dashed where inferred
 - Estimated extent of measurable light nonaqueous phase liquid (LNAPL; free product) on groundwater; dashed where inferred

- ### Notes
1. TPH data provided on this figure and used for contouring represent the sum of detected concentrations of TPH quantified as diesel and as gasoline.
 2. Fuel storage tanks depicted on the figure are historical structures and have been removed from the site.
- ### Survey Notes
1. Base map prepared from data provided by Fluor Daniel GTI, Dulin & Boynton, Geomatrix, and Parsnixon.
 2. Except as noted below, well locations surveyed by Dulin & Boynton.
 3. Locations of wells HL-3, and HL-4 based on field measurements by Fluor Daniel GTI and Woodward-Clyde.
 4. Locations of wells BW-1 through BW-9 surveyed by Geomatrix based on reference to other wells surveyed by Dulin & Boynton.
 5. Locations of wells TFR-9, TFR-12, TFR-14, TFR-15, TFR-18, TFR-22, TFR-24, TFR-27, TFR-29, and TFR-33 based on field measurements by SGI.

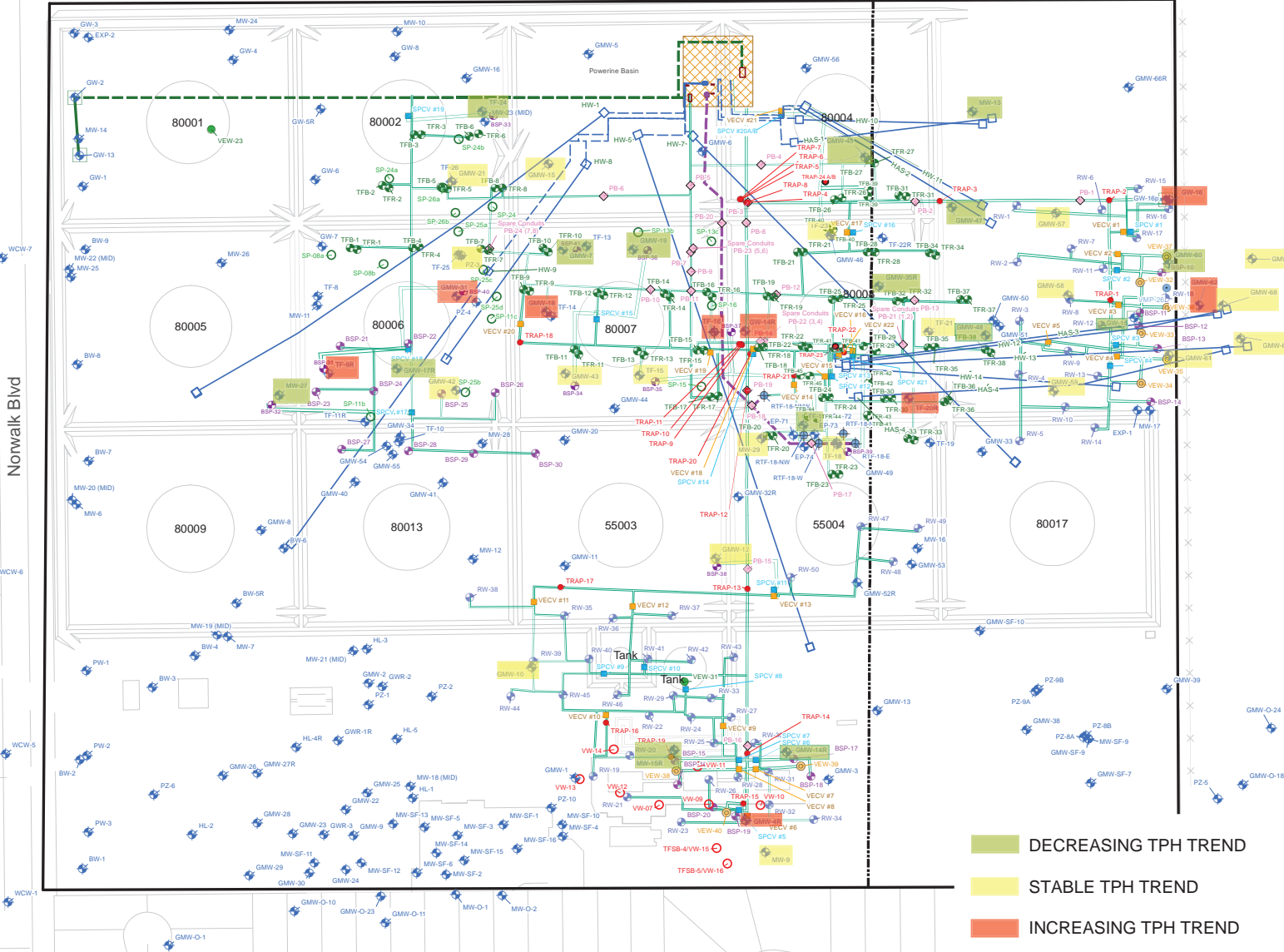



TOTAL PETROLEUM HYDROCARBONS IN GROUNDWATER
May 2023

DEFENSE FUEL SUPPORT POINT NORWALK
Norwalk, California

By: Ann Espejo	Date: 7/2023	Project No: KMNWCR23
 		Jacobs
		Figure C1

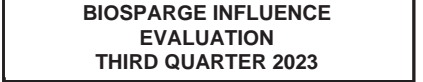
Excelsior Dr



- ### Legend
- 80001 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)
 - 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	08/04/2023	SM	BT



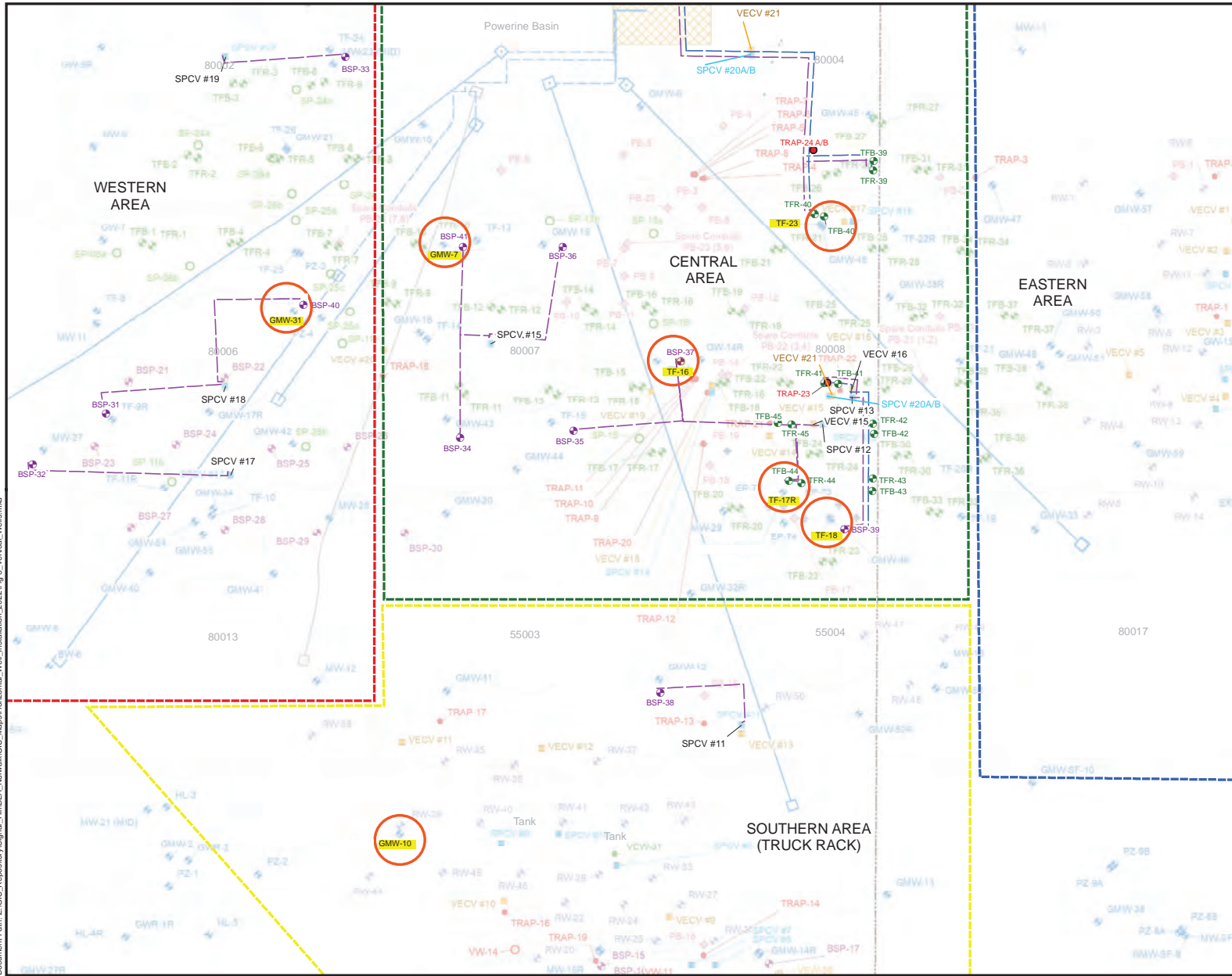
**BIOSPARGE INFLUENCE
EVALUATION
THIRD QUARTER 2023**

**Figure
C2**

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

- DECREASING TPH TREND
- STABLE TPH TREND
- INCREASING TPH TREND

Document Path: Z:\GIS_Repository\Signal_Hill\DLA_Norwalk\GIS_Map\Horizontal_Well_Installation_2022\Fig-3_Verical_Wells.mxd



LEGEND

- FORMER ABOVEGROUND STORAGE TANK
- DFSP NORWALK BORDER
- FENCE
- BERM
- WESTERN BOUNDARY OF EASTERN 15-ACRE PARCEL
- CENTRAL AREA APPROXIMATE BOUNDARY
- EASTERN AREA APPROXIMATE BOUNDARY
- SOUTHERN AREA APPROXIMATE BOUNDARY
- TREATMENT SYSTEM ENCLOSURE
- UNDERGROUND HORIZONTAL VAPOR EXTRACTION WELLS
- BIOSPARGE SYSTEM PIPING (APEX, 2022)
- VAPOR EXTRACTION SYSTEM PIPING (APEX, 2022)
- VAPOR EXTRACTION WELLS (2004)
- VAPOR EXTRACTION WELLS (PARSONS, 2004)
- VAPOR EXTRACTION WELLS (NOVEMBER 2016)
- BIOSPARGE WELLS (AUGUST 2004)
- BIOSPARGE WELLS AND VAPOR EXTRACTION WELLS
- BIOSPARGE WELLS (EXISTING)
- CO-LOCATED TOTAL FLUID AND BIOSPARGE WELLS (EXISTING)
- TF-18 AREA LNAPL RECOVERY WELLS
- TOTAL FLUID AND GROUNDWATER MONITORING WELLS
- PULL BOX (FOR WIRE OR TUBING) (EXISTING)
- PVC CONDENSATE TRAP FOR VAPOR EXTRACTION PIPING (EXISTING)
- VAPOR EXTRACTION SYSTEM CONTROL VAULTS (EXISTING)
- BIOSPARGE SYSTEM CONTROL VAULTS (EXISTING)
- BIOSPARGE WELLS (APEX, 2022)
- CO-LOCATED TOTAL FLUID AND BIOSPARGE WELLS (APEX, 2022)
- PVC CONDENSATE TRAP FOR VAPOR EXTRACTION PIPING (APEX, 2022)
- VAPOR EXTRACTION SYSTEM CONTROL VAULTS (APEX, 2022)
- BIOSPARGE SYSTEM CONTROL VAULTS (APEX, 2022)
- MONITORING WELL USED FOR BIOSPARGE INFLUENCE TESTING

0 50 100 200 Feet
SCALE: 1" = 100'

DATE: 09/2023	PROJECT NO: DLA001-0314091-22007275	DRAWN BY: SM	APPROVED BY: BT
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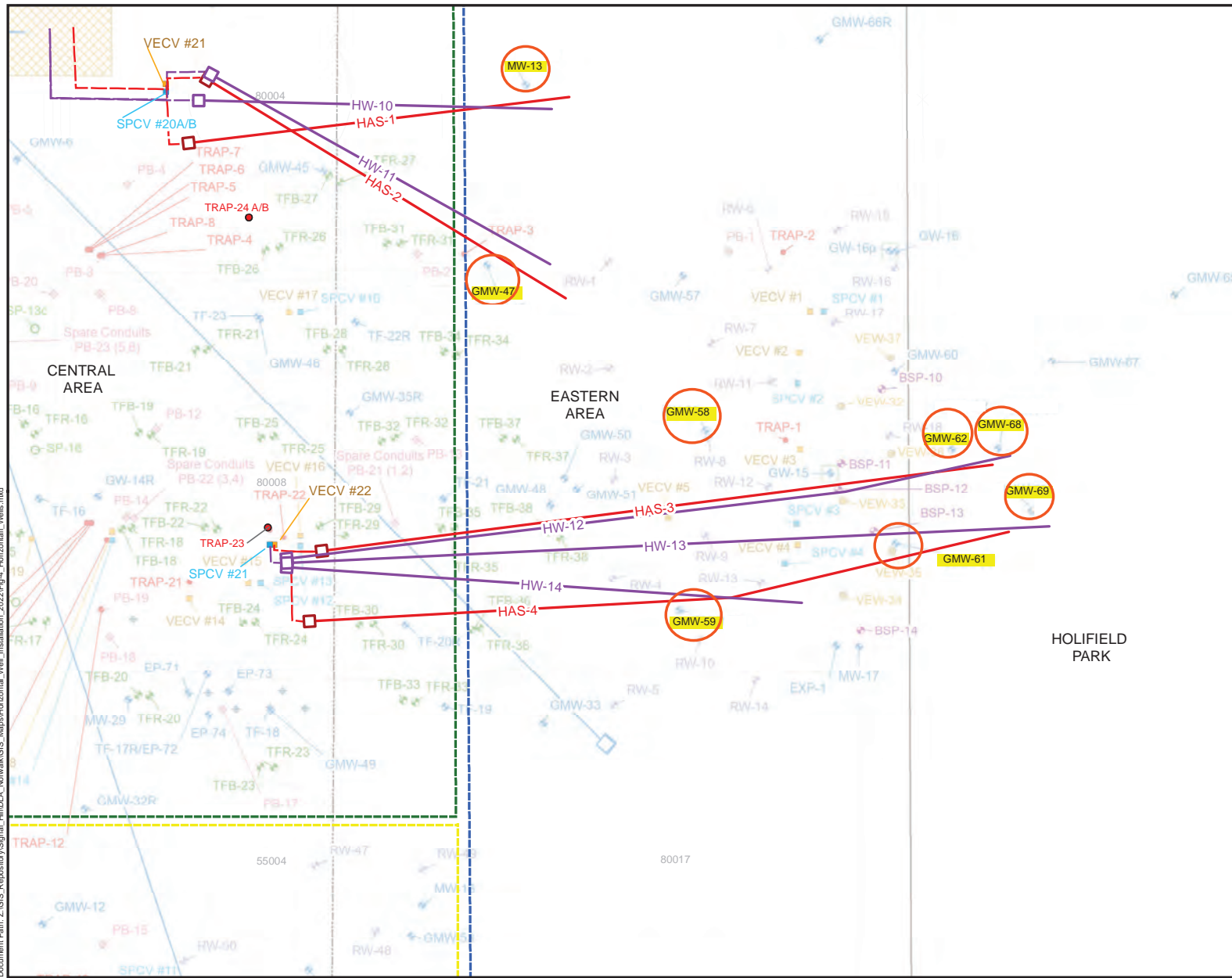
**INFLUENCE EVALUATION:
VERTICAL BIOSPARGE WELLS**

DFSP NORWALK
15306 NORWALK BLVD.
NORWALK, CALIFORNIA 90650

SGI environmental **APEX**

FIGURE
C3

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LEGEND

- FORMER ABOVEGROUND STORAGE TANK
- DFSP NORWALK BORDER
- FENCE
- BERM
- WESTERN BOUNDARY OF EASTERN 15-ACRE PARCEL
- CENTRAL AREA APPROXIMATE BOUNDARY
- EASTERN AREA APPROXIMATE BOUNDARY
- SOUTHERN AREA APPROXIMATE BOUNDARY
- TREATMENT SYSTEM ENCLOSURE
- UNDERGROUND HORIZONTAL BIOSPARGE WELLS (APEX, 2022)
- UNDERGROUND HORIZONTAL VAPOR EXTRACTION WELLS (APEX, 2022)
- HORIZONTAL BIOSPARGE SYSTEM PIPING (APEX, 2022)
- HORIZONTAL VAPOR EXTRACTION SYSTEM PIPING (APEX, 2022)
- UNDERGROUND HORIZONTAL VAPOR EXTRACTION WELLS
- VAPOR EXTRACTION WELLS (2004)
- VAPOR EXTRACTION WELLS (PARSONS, 2004)
- VAPOR EXTRACTION WELLS (NOVEMBER 2016)
- BIOSPARGE WELLS (AUGUST 2004)
- BIOSPARGE AND VAPOR EXTRACTION WELLS
- BIOSPARGE WELLS (EXISTING)
- CO-LOCATED TOTAL FLUID AND BIOSPARGE WELLS (EXISTING)
- TF-18 AREA LNAPL RECOVERY WELLS
- TOTAL FLUID AND GROUNDWATER MONITORING WELLS
- PULL BOX (FOR WIRE OR TUBING) (EXISTING)
- PVC CONDENSATE TRAP FOR VAPOR EXTRACTION PIPING (EXISTING)
- VAPOR EXTRACTION SYSTEM CONTROL VAULTS (EXISTING)
- BIOSPARGE SYSTEM CONTROL VAULTS (EXISTING)
- PVC CONDENSATE TRAP FOR VAPOR EXTRACTION PIPING (APEX, 2022)
- VAPOR EXTRACTION SYSTEM CONTROL VAULTS (APEX, 2022)
- BIOSPARGE SYSTEM CONTROL VAULTS (APEX, 2022)
- MONITORING WELL USED FOR BIOSPARGE INFLUENCE TESTING

N

0 37.5 75 150 Feet

SCALE: 1" = 75'

DATE: 09/2023	PROJECT NO: DLA001-0314091-22007275	DRAWN BY: SM	APPROVED BY: BT
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**INFLUENCE EVALUATION:
HORIZONTAL BIOSPARGE WELLS**

DFSP NORWALK
15306 NORWALK BLVD.
NORWALK, CALIFORNIA 90650

		<p>FIGURE C4</p>
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TABLE C1 - Biosparge Influence Monitoring Results

DFSP Norwalk
15306 Norwalk Blvd, Norwalk, CA 90650

Monitoring Well	Nearest Biosparge Treatment Well	Date	Time	Trunkline Pressure (pounds / inch ²)	Thermal Oxidizer VES Status	Carbon VES Status	pH (unitless)	Electric Conductivity (microsiemens / centimeter)	Oxidation-reduction potential (millivolts)	Temperature (°C)	Dissolved Oxygen (milligram/liter)	Wellhead Pressure (inches water column)	Depth to Water (feet below top of casing)	Notes	
Southern Area															
GMW-10	RW-39	09/07/23	14:31	11.0	OFF	OFF	6.51	319.6	-230.9	24.8	0.44	-	30.91	Well casing to big. Test cap not sealed.	
		09/13/23	15:36	11.5	OFF	OFF	6.17	310	-62.9	24.9	0.11	-	31.00	TL#11 turned off pending manifold leak repair, no pressure at RW-39.	
		09/21/23	-	-	OFF	OFF	-	-	-	-	-	-	-	-	TL#11 off pending leak repair.
		09/29/23	-	-	OFF	OFF	-	-	-	-	-	-	-	-	
Western Area															
GMW-31	TFB-7	11/04/22	8:20	-	OFF	OFF	7.06	1354	-3.9	20.1	0.58	-	36.18	Second Semiannual 2022 groundwater monitoring event	
		05/09/23	11:50	-	OFF	OFF	7.06	779	-92.5	24.3	0.15	-	34.28	First Semiannual 2023 groundwater monitoring event	
	BSP-40	09/07/23	15:45	13.0	OFF	OFF	-	-	-	-	-	-	+6.0	29.10	Well undergoing biofouling chemical treatment, water quality parameters not measured.
		09/13/23	-	-	OFF	OFF	-	-	-	-	-	-	-	-	Well undergoing biofouling chemical treatment, not tested.
		09/21/23	-	-	OFF	OFF	-	-	-	-	-	-	-	-	Well undergoing biofouling chemical treatment, not tested.
		09/29/23	14:17	12.25	OFF	OFF	7.27	1,939	-182.2	24.5	8.85	+11.0	29.50	BSP-40 wellhead pressure = 11.25 psig; DTW rising during measurement, indicating mounding influence.	

Notes:

- = not measured

psig = pounds per square inch, gauge

 Change in monitoring parameter indicates influence from newly installed biosparge well.

TABLE C1 - Biosparge Influence Monitoring Results

DFSP Norwalk
15306 Norwalk Blvd, Norwalk, CA 90650

Monitoring Well	Nearest Biosparge Treatment Well	Date	Time	Trunkline Pressure (pounds / inch ²)	Thermal Oxidizer VES Status	Carbon VES Status	pH (unitless)	Electric Conductivity (microsiemens / centimeter)	Oxidation-reduction potential (millivolts)	Temperature (°C)	Dissolved Oxygen (milligram/liter)	Wellhead Pressure (inches water column)	Depth to Water (feet below top of casing)	Notes
Central Area														
GMW-7	TFB-10	12/21/21	10:30	10	OFF	OFF	-	-	-	-	-	+2.43	-	4Q 2021 biosparge influence evaluation (pressure test only)
		11/10/22	10:15	OFF	OFF	OFF	6.72	1051	34.5	28.0	0.15	-	37.64	Second Semiannual 2022 groundwater monitoring event
		05/09/23	12:10	OFF	OFF	OFF	6.77	691	-105.3	24.8	0.37	-	36.45	First Semiannual 2023 groundwater monitoring event
	BSP-41	09/07/23	14:58	11.75	OFF	OFF	7.27	365.1	-100.8	26.4	2.16	+1.0	35.1	
		09/13/23	15:00	11.5	OFF	OFF	6.84	445.0	-34.4	26.41	0.28	+0.55	35.02	BSP-41 wellhead pressure = 2.5 psig (below injection breakout pressure)
		09/21/23	16:28	15.5	OFF	OFF	7.27	538.0	-110.2	26.17	0.29	+1.65	34.65	BSP-41 wellhead pressure = 10.5 psig
		09/29/23	13:49	10.25	OFF	OFF	7.06	656	-176.5	26.0	0.46	+0.65	35.04	
TF-16	TFB-15	12/22/21	9:30	11	OFF	OFF	-	-	-	-	-	+0.25	-	4Q 2021 biosparge influence evaluation (pressure test only)
		11/10/22	8:22	OFF	OFF	OFF	7.26	1099	-82.8	25.6	0.12	-	36.55	Second Semiannual 2022 groundwater monitoring event
		05/09/23	9:25	OFF	OFF	OFF	7.52	682	-215.6	27.3	0.17	-	35.24	First Semiannual 2023 groundwater monitoring event
	BSP-37	09/07/23	14:10	9.75 / 9.5	OFF	OFF	7.15	1,196	-181.6	32.4	0.48	+1.2	32.29	
		09/13/23	14:35	10.5 / 10.5	OFF	OFF	6.85	1,126	-35.9	32.3	0.54	+0.45	32.1	BSP-37 wellhead pressure = 3.25 psig (below injection breakout pressure)
		09/21/23	15:30	12.25 / 12.0	OFF	OFF	7.24	1,164	-328.8	32.33	0.12	+0.85	33.00	BSP-37 wellhead pressure = 8.5 psig
		09/29/23	13:15	9.5 / 9.25	OFF	OFF	7.06	1,366	-321.8	31.8	0.13	+0.6	32.91	
TF-17R	TFB-20	11/10/22	9:00	OFF	OFF	OFF	6.90	617	-73.00	26.4	0.13	-	38.26	Second Semiannual 2022 groundwater monitoring event
		05/08/23	2:15	OFF	OFF	OFF	7.10	952	-17.5	31.3	0.33	-	36.84	First Semiannual 2023 groundwater monitoring event
	TFB-44	09/07/23	13:42	9.75 / 9.5	OFF	OFF	7.03	1,400	-109.5	30.2	0.43	+2.1	34.03	
		09/13/23	14:25	10.5 / 10.5	OFF	OFF	6.76	1,315	2.0	30.19	0.39	+2.4	33.57	TFB-44 wellhead pressure = 2.25 psig (below injection breakout pressure)
		09/21/23	15:16	12.25 / 12.0	OFF	OFF	6.91	1,303	-71.0	29.53	0.29	+3.0	33.50	TFB-44 wellhead pressure = 7.5 psig
		09/29/23	13:04	9.5 / 9.25	OFF	OFF	6.86	1,310	-131.7	29.8	0.26	+1.8	33.99	
TF-18	TFB-23	09/15/21	9:30	6	OFF	OFF	NM	NM	NM	NM	NM	+1.0	NM	3Q 2021 biosparge influence evaluation (pressure test only)
		11/10/22	9:40	OFF	OFF	OFF	6.98	905	50.4	30.2	0.12	NM	33.55	Second Semiannual 2022 groundwater monitoring event
		05/08/23	1:45	OFF	OFF	OFF	6.92	620	52.8	33.0	0.28	NM	31.52	First Semiannual 2023 groundwater monitoring event
	TFB-43	09/07/23	13:48	9.75 / 9.5	OFF	OFF	7.16	1,729	67.1	33.5	5.57	+1.4	31.19	
		09/13/23	14:10	10.5 / 10.5	OFF	OFF	7.15	1,634	60.5	33.02	3.77	+1.8	30.90	
		09/21/23	15:05	12.25 / 12.0	OFF	OFF	7.01	1,660	-64.3	32.38	0.13	+0.35	31.12	
		09/29/23	13:02	9.5 / 9.25	OFF	OFF	7.11	1,655	186.4	32.6	5.59	+0.55	31.41	
TF-23	TFB-21	12/22/21	10:00	4.5	OFF	OFF	NM	NM	NM	NM	NM	+0.84	NM	3Q 2021 biosparge influence evaluation
		11/10/22	12:22	OFF	OFF	OFF	7.08	1620	17.8	24.1	0.1	NM	35.86	Second Semiannual 2022 groundwater monitoring event
		05/08/23	1:05	OFF	OFF	OFF	6.96	1553	-77.2	25.7	0.16	NM	34.81	First Semiannual 2023 groundwater monitoring event
	TFB-40	09/07/23	15:21	10.75 / 10.75	OFF	OFF	7.3	1,809	81.6	28.2	7.86	+3.5	23.03	
		09/13/23	15:57	10.0 / 10.0	OFF	OFF	6.99	1,883	25.6	28.12	4.18	+3.0	23.96	
		09/21/23	16:13	12.5 / 12.5	OFF	OFF	7.16	1,798	-23.3	28.02	10.24	+9.0	20.25	
		09/29/23	13:32	9.0 / 9.0	OFF	OFF	6.94	1,870	110.5	28.2	3.56	+7.0	25.5	

Notes:

- = not measured

psig = pounds per square inch, gauge

Change in monitoring parameter indicates influence from newly installed biosparge well.

TABLE C1 - Biosparge Influence Monitoring Results

DFSP Norwalk
15306 Norwalk Blvd, Norwalk, CA 90650

Monitoring Well	Nearest Biosparge Treatment Well	Date	Time	Trunkline Pressure (pounds / inch ²)	Thermal Oxidizer VES Status	Carbon VES Status	pH (unitless)	Electric Conductivity (microsiemens / centimeter)	Oxidation-Reduction Potential (millivolts)	Temperature (°C)	Dissolved Oxygen (milligram / liter)	Wellhead Pressure (inches water column)	Depth to Water (feet below top of casing)	Notes
Eastern Area														
GMW-61	BSP-13	11/01/22	10:12	OFF	OFF	OFF	7.31	2,610	8.1	23.4	0.59	NM	33.90	Second Semiannual 2022 groundwater monitoring event
		05/08/23	1:10	OFF	OFF	OFF	7.22	1,972	53.5	24.0	0.23	NM	34.85	First Semiannual 2023 groundwater monitoring event
	HAS-4	09/07/23	11:55	10.75	OFF	OFF	7.42	2,776	129.3	23.8	8.89	+1.5	30.63	
		09/13/23	10:49	12.0	OFF	OFF	7.32	2,467	14.6	23.75	6.10	+0.9	26.79	
		09/21/23	11:06	13.0	OFF	OFF	7.30	2,337	-41.0	23.66	5.74	+0.5	26.02	
		09/29/23	9:16	9.5	OFF	OFF	7.34	2,409	-4.1	23.4	7.44	+0.4	29.90	HAS-4 wellhead pressure = 10.0 psig
GMW-59	RW-10	11/03/22	11:05	OFF	OFF	OFF	7.36	105.5	52.4	24.1	0.15	NM	34.53	Second Semiannual 2022 groundwater monitoring event
		05/02/23	9:40	OFF	OFF	OFF	7.11	220.4	-63.9	23.9	0.14	NM	33.35	First Semiannual 2023 groundwater monitoring event
	HAS-4	09/07/23	11:39	10.75	OFF	OFF	7.27	2,258	115.8	25.8	2.45	+0.5	26.83	
		09/13/23	11:03	12.0	OFF	OFF	7.32	2,286	21.8	25.7	4.51	+1.8	23.40	
		09/21/23	11:23	13.0	OFF	OFF	7.75	2,284	14.3	25.3	7.21	+0.45	21.50	
		09/29/23	9:26	9.5	OFF	OFF	7.60	2,334	139.1	25.4	8.58	+1.0	24.80	HAS-4 wellhead pressure = 10.0 psig
GMW-47	TFB-31	11/08/22	9:30	OFF	OFF	OFF	7.19	916.0	68.0	20.8	0.10	NM	36.54	Second Semiannual 2022 groundwater monitoring event
		05/08/23	11:30	OFF	OFF	OFF	6.97	636.5	-42.6	25.6	0.23	NM	35.71	First Semiannual 2023 groundwater monitoring event
	HAS-2	09/07/23	10:45	10.75	OFF	OFF	7.48	2,327	132.9	24.6	6.29	+0.03	23.80	
		09/13/23	12:16	10.0	OFF	OFF	7.04	1,883	45.4	24.36	2.80	+0.39	32.10	
		09/21/23	11:55	12.5	OFF	OFF	7.43	2,134	45.6	24.49	4.64	+2.3	20.70	HAS-2 wellhead pressure = 13.25 psig
		09/29/23	12:40	9	OFF	OFF	7.38	2,168	206.0	24.8	6.95	+2.6	22.50	
MW-13	N/A	11/07/22	1:40	OFF	OFF	OFF	7.16	136.5	66.9	20.8	0.11	NM	38.83	Second Semiannual 2022 groundwater monitoring event
		05/04/23	12:55	OFF	OFF	OFF	7.43	262.7	-67.2	22.80	0.12	NM	38.13	First Semiannual 2023 groundwater monitoring event
	HAS-1	09/07/23	11:02	10.75	OFF	OFF	7.62	1,484	149.7	23.0	8.17	+1.5	23.20	
		09/13/23	12:23	10.0	OFF	OFF	7.35	1,400	49.2	22.86	10.21	+1.1	24.73	
		09/21/23	11:50	12.5	OFF	OFF	7.42	1,367	47.2	22.79	10.54	+0.65	24.28	HAS-1 wellhead pressure = 12.75 psig
		09/29/23	12:25	9.0	OFF	OFF	7.62	1,390	184.6	23.0	9.79	+4.3	23.93	
GMW-58	RW-8	11/01/22	12:00	OFF	OFF	OFF	7.29	244.6	38.6	24.8	1.19	NM	37.12	Second Semiannual 2022 groundwater monitoring event
		05/08/23	12:35	OFF	OFF	OFF	6.96	117.7	-31.0	26.2	0.51	NM	35.66	First Semiannual 2023 groundwater monitoring event
		09/07/23	11:18	13.25	OFF	OFF	7.18	2,422	136.1	25.4	5.82	+1.2	31.33	
		09/13/23	12:00	12.75	OFF	OFF	7.06	2,227	40.9	25.37	7.63	+1.25	27.92	
		09/21/23	12:50	17.0	OFF	OFF	7.19	2,268	28.5	25.28	5.4	+0.95	25.28	
		09/29/23	10:45	11.0	OFF	OFF	7.19	2,356	161.7	25.3	7.25	+0.58	29.63	

Notes:

- = not measured

psig = pounds per square inch, gauge

Change in monitoring parameter indicates influence from newly installed biosparge well.

TABLE C1 - Biosparge Influence Monitoring Results

DFSP Norwalk
15306 Norwalk Blvd, Norwalk, CA 90650

Monitoring Well	Nearest Biosparge Treatment Well	Date	Time	Trunkline Pressure (pounds / inch ²)	Thermal Oxidizer VES Status	Carbon VES Status	pH (unitless)	Electric Conductivity (microsiemens / centimeter)	Oxidation-reduction potential (millivolts)	Temperature (°C)	Dissolved Oxygen (milligram/liter)	Wellhead Pressure (inches water column)	Depth to Water (feet below top of casing)	Notes
Hollifield Park														
GMW-62	RW-18	03/15/22	14:00	6	OFF	OFF	NM	NM	NM	NM	NM	+0.03	NM	Pressure testing only
		10/31/22	12:30	OFF	OFF	OFF	7.02	273.6	-167.4	24.7	0.11	NM	36.53	Second Semiannual 2022 groundwater monitoring event
		05/01/23	12:25	OFF	OFF	OFF	7.11	298.9	-219.1	22.1	0.21	NM	32.73	First Semiannual 2023 groundwater monitoring event
		07/25/23	7:40	11	OFF	OFF	NM	NM	NM	NM	NM	+0.11	NM	Pressure testing only (HAS-3 not active)
	HAS-3	09/07/23	12:20	10.75	OFF	OFF	7.17	2,918	48.4	22.7	8.29	+0.19	26.69	
		09/13/23	9:40	12.0	OFF	OFF	7.10	2,848	-144.7	22.72	2.36	+0.26	25.94	
		09/21/23	9:56	13.0	OFF	OFF	7.06	2,803	-91.6	22.71	8.57	+0.07	25.63	
		09/29/23	8:32	9.5	OFF	OFF	6.91	2,963	-159.2	22.8	4.01	+0.25	33.05	HAS-3 wellhead pressure = 9.0 psig
GMW-68	RW-18	03/15/22	13:30	6	OFF	OFF	NM	NM	NM	NM	NM	+0.03	NM	Pressure testing only
		10/31/22	11:52	OFF	OFF	OFF	6.96	121.6	-142.4	23.5	0.14	NM	35.48	Second Semiannual 2022 groundwater monitoring event
		05/01/23	11:50	OFF	OFF	OFF	7.04	282	-98.1	21.7	0.15	NM	34.63	First Semiannual 2023 groundwater monitoring event
		07/25/23	7:30	11	OFF	OFF	NM	NM	NM	NM	NM	+1.77	NM	Pressure testing only (HAS-3 not active)
	HAS-3	09/07/23	12:31	10.75	OFF	OFF	7.37	3,211	-115.6	21.5	2.05	+9.2	25.37	
		09/13/23	10:07	12.0	OFF	OFF	7.25	2,864	-57.7	21.48	0.11	+8.0	23.98	
		09/21/23	10:30	13.0	OFF	OFF	7.26	2,547	-161.8	21.34	2.97	+9.0	22.48	
		09/29/23	9:41	9.5	OFF	OFF	7.15	2,907	-255.8	21.5	0.44	+0.8	29.42	HAS-3 wellhead pressure = 9.0 psig
GMW-69	BSP-13	03/15/22	13:40	6	OFF	OFF	NM	NM	NM	NM	NM	-0.35	NM	Pressure testing only
		10/31/22	11:17	OFF	OFF	OFF	7.31	122.7	38.4	23.2	0.27	NM	35.01	Second Semiannual 2022 groundwater monitoring event
		05/01/23	9:50	OFF	OFF	OFF	7.29	254.0	-135.1	20.6	0.19	NM	34.61	First Semiannual 2023 groundwater monitoring event
		07/25/23	7:55	11	OFF	OFF	NM	NM	NM	NM	NM	+0.08	NM	Pressure testing only (HAS-4 not active)
	HAS-4	09/07/23	12:43	10.75	OFF	OFF	7.21	3,112	61.5	21.3	5.33	+0.35	28.98	
		09/13/23	9:46	12.0	OFF	OFF	7.06	2,971	-2.1	21.32	9.81	+0.55	28.83	
		09/21/23	10:38	13.0	OFF	OFF	7.00	2,758	-9.3	21.23	2.19	+1.9	27.70	
		09/29/23	9:00	9.5	OFF	OFF	7.00	2,843	43.5	21.4	3.05	+0.06	31.05	HAS-4 wellhead pressure = 10.0 psig

Notes:

- = not measured

psig = pounds per square inch, gauge

Change in monitoring parameter indicates influence from newly installed biosparge well.

TABLE C2 - Biosparge System Influence Evaluation Summary

Third Quarter 2023

DFSP Norwalk, 15306 Norwalk Blvd, Norwalk, California

Monitoring Well	Monitoring Parameters Indicating Treatment Influence	Nearest Biosparge Well	Treatment Status	Recommendations
SOUTHERN & WESTERN AREA MONITORING WELLS				
GMW-10		RW-39	<i>Low DO, low ORP, no significant pressure response, no indication of influence from nearby treatment well. Increasing dissolved TPH-d trend.</i>	<i>Leak in Trunkline #11 tentatively scheduled for repair during 4Q 2023; followup influence monitoring event will subsequently be conducted before end of 4Q 2023.</i>
GMW-31	PR, DO, DTW	BSP-40	<i>Good pressure influence, elevated DO, low ORP, possible GW mounding, and increasing TPH-d concentration trend.</i>	<i>One additional influence testing event to be conducted before end of 4Q 2023</i>
CENTRAL AREA MONITORING WELLS				
GMW-7	T, PR, DTW	BSP-41	<i>Good pressure response at higher injection pressure of 15.5 psi, some evidence of groundwater mounding, and temperature has increased relative to May 2023 monitoring event.</i>	<i>Confirm minimal pressure loss between system manifold and BSP-41 wellhead; Review SE2 monitoring results to determine if one additional influence testing event is needed before end of 4Q 2023.</i>
TF-16	EC, T, PR, DTW	BSP-37	<i>Significant increase in EC and temperature relative to May 2023 monitoring event, good pressure response, and groundwater mounding observed during injection. Low DO and ORP (highly contaminated area).</i>	<i>Confirm BSP-37 wellhead pressure remains above 4 psi during normal operations; One additional influence testing event to be conducted before end of 4Q 2023.</i>
TF-17R	EC, T, PR, DTW	TFB-44	<i>Significant increase in EC, elevated temperature, good pressure response, groundwater mounding observed during injection. Low DO and ORP (highly contaminated area).</i>	<i>Confirm TFB-44 wellhead pressure remains above 4 psi during normal operations; Review SE2 monitoring results to determine if one additional influence testing event is needed before end of 4Q 2023.</i>
TF-18	EC, DO	TFB-45	<i>Significant increase in EC, temperature is elevated but slightly lower than May 2023 monitoring event, fluctuating DO and ORP levels, and groundwater mounding was not observed.</i>	<i>Confirm minimal pressure loss between system manifold and TFB-45 wellhead, and injection pressures at wellhead are above 4 psi during normal operations; One additional influence testing event to be conducted before end of 4Q 2023.</i>
TF-23	T, DO, PR, DTW	TFB-40	<i>Slight increase in EC, elevated DO/ORP, increased temperature relative to May 2023 monitoring event, good pressure response, and groundwater mounding observed during injection.</i>	<i>Review SE2 monitoring results to determine if one additional influence testing event is needed before end of 4Q 2023.</i>
EASTERN AREA MONITORING WELLS				
GMW-61	DO, PR, DTW	HAS-4	<i>Slight increase in EC, stable temperature, consistently high DO, fluctuating ORP levels. Low but consistent pressure response; no increase when trunkline pressure was increased. Groundwater mounding observed during injection.</i>	<i>Iteratively increase injection pressure to horizontal sparge well HAS-4; conduct one additional influence testing event to be conducted before end of 4Q 2023.</i>
GMW-59	EC, T, DO, PR, DTW	HAS-4	<i>Large increase in EC, elevated temperatures, consistently high DO and ORP. Low but consistent pressure response; no increase when trunkline pressure was increased. Groundwater mounding observed during injection.</i>	<i>Iteratively increase injection pressure to horizontal sparge well HAS-4; conduct one additional influence testing event to be conducted before end of 4Q 2023.</i>
GMW-47	EC, DO, PR, DTW	HAS-2	<i>Large increase in EC, stable temperatures, consistently high DO and ORP. Pressure response increased when injection pressure was increased. Groundwater mounding observed.</i>	<i>Iteratively increase injection pressure to horizontal sparge well HAS-2; Review SE2 monitoring results to determine if one additional influence testing event is needed before end of 4Q 2023.</i>
MW-13	EC, DO, PR, DTW	HAS-1	<i>Large increase in EC, stable temperatures, consistently high DO and ORP. Pressure responses were generally good, but did not appear to increase with increase in injection pressure. Groundwater mounding observed.</i>	<i>Iteratively increase injection pressure to horizontal sparge well HAS-1; Review SE2 monitoring results to determine if one additional influence testing event is needed before end of 4Q 2023.</i>
GMW-58	EC, ORP, DO, PR, DTW	RW-8	<i>Large increase in EC, stable temperatures, consistently high DO and ORP. Pressure responses were generally good, but did not appear to increase with increase in injection pressure. Groundwater mounding observed.</i>	<i>Confirm minimal pressure loss between system manifold and RW-8 wellhead, and injection pressures at wellhead are above 4 psi during normal operations; One additional influence testing event to be conducted before end of 4Q 2023.</i>
HOLLIFIELD PARK MONITORING WELLS				
GMW-62	EC, DO, PR, DTW	HAS-3	<i>Significant increase in EC; low ORP, stable temps, high DO. Consistent pressure response, although pressure dropped when injection pressure was increased. Groundwater mounding observed except during final survey event.</i>	<i>Iteratively increase injection pressure to horizontal sparge well HAS-3; conduct one additional influence testing event to be conducted before end of 4Q 2023.</i>
GMW-68	EC, PR, DTW	HAS-3	<i>Significant increase in EC; low ORP, stable temperatures, fluctuating DO. Consistently high pressure response and groundwater mounding observed.</i>	<i>Iteratively increase injection pressure to horizontal sparge well HAS-3; conduct one additional influence testing event to be conducted before end of 4Q 2023.</i>
GMW-69	EC, DO, DTW	HAS-4	<i>Significant increase in EC; fluctuating ORP, stable temperatures, high DO. Consistent pressure response that increased with higher injection pressure. Groundwater mounding observed.</i>	<i>Iteratively increase injection pressure to horizontal sparge well HAS-4; conduct one additional influence testing event to be conducted before end of 4Q 2023.</i>

Legend / Notes:

SPCV = Sparge Pressure Control Vault

-- = Reading not taken

PR = pressure response

DO = dissolved oxygen

ORP = oxidation reduction potential

EC = electrical conductivity

T = temperature

DTW = depth to water (groundwater mounding detected)

Green indicates decreasing dissolved TPH-d trends, and/or changes in three or more monitoring parameters indicating treatment influence

Yellow indicates stable dissolved TPH-d trends, and/or changes in up to two monitoring parameters indicating treatment influence

Red indicates increasing dissolved TPH-d trends, and/or no observed changes in monitoring parameters

**TABLE C3
HISTORICAL ANALYTICAL RESULTS FOR TPH IN GROUNDWATER
NOVEMBER 1996 THROUGH NOVEMBER 2021**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Sample Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)
Uppermost Aquifer				
GMW-4	07/15/97	Terra Services	1,300	2,100
GMW-4	01/08/98	Terra Services	380	530
GMW-4	05/26/98	Terra Services	2,300	-----
GMW-4	11/18/99	Secor	1,600	-----
GMW-4	05/19/00	Secor	2,500	-----
GMW-4	04/10/03	Secor	500	-----
GMW-4	05/04/07	Secor	2,000	-----
GMW-4	04/16/08	BT for Parsons	16,000	-----
GMW-4	04/17/08	Secor	4,400	-----
GMW-4	11/21/08	Stantec	4,900	-----
GMW-4	04/23/09	Blaine Tech for AMEC GMX	2,500	-----
GMW-4	05/27/10	Blaine Tech	2,200	-----
GMW-4	10/05/10	Blaine Tech	1,300	-----
GMW-4	04/14/11	Blaine Tech	2,800	-----
GMW-4	10/12/11	CH2M Hill	1,200	-----
GMW-4	04/20/12	CH2M Hill	4,600	25,000
GMW-4	10/19/12	CHHL	1,300	8,100
GMW-4	04/12/13	CHHL	2,100	8,000
GMW-4	10/11/13	CHHL	1,800	2,400
GMW-4R	04/18/17	BT for CH2MHill	84	70
GMW-4R	10/05/17	BT for CH2MHill	<50	70
GMW-4R	04/19/18	BT for Jacobs	100	50
GMW-4R	11/08/18	BT for Jacobs	<50	<50
GMW-4R	04/18/19	BT for Jacobs	<50	<50
GMW-4R	10/30/19	BT for Jacobs	<50	<50
GMW-4R	05/08/20	BT for Jacobs	<50	<50
GMW-4R	11/05/20	BT for Jacobs	<50	58
GMW-4R	05/05/21	BT for Jacobs	<50	<50
GMW-4R	11/02/21	BT for Jacobs	120	290
GMW-4R	05/12/22	BT for Jacobs	<50	190
GMW-4R	11/01/22	BT for Jacobs	<50	160
GMW-4R	05/03/23	BT for Jacobs	<200	520
GMW-7	05/21/98	BBC	-----	-----
GMW-7	12/01/00	IT Corporation	520,000	-----
GMW-7	04/30/15	SGI	610	28,000
GMW-7	10/11/16	SGI	560	2,000
GMW-7	10/10/17	SGI	240	1,400
GMW-7	04/20/18	SGI	150	4,800 J
GMW-7	11/12/18	SGI	410	5,600
GMW-7	04/22/19	SGI	150	3,900
GMW-7	11/06/19	SGI	230	5,000
GMW-7	05/11/20	SGI	360	5,100
GMW-7	10/26/20	SGI	530	2,300
GMW-7	05/12/21	SGI/Apex	710	4,700
GMW-7	11/08/21	SGI/Apex	<100	110
GMW-7	05/19/22	SGI/Apex	670	11,000
GMW-7	11/10/22	SGI/Apex	790	10,000
GMW-7	05/09/23	SGI/Apex	360	4,600

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HISTORICAL ANALYTICAL RESULTS FOR TPH IN GROUNDWATER
NOVEMBER 1996 THROUGH NOVEMBER 2021**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Sample Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)
Uppermost Aquifer				
GMW-10	10/08/10	Blaine Tech	4,800	-----
GMW-10	04/14/11	Blaine Tech	5,700	-----
GMW-10	10/14/11	CH2M Hill	3,700	-----
GMW-10	04/27/12	CH2M Hill	3,000	3,100
GMW-10	10/19/12	CHHL	10,000	7,500
GMW-10	04/12/13	CHHL	14,000	100,000
GMW-10	10/11/13	CHHL	13,000	9,500
GMW-10	10/28/15	BT for CH2MHill	27,000	41,000
GMW-10	05/06/21	BT for Jacobs	<500	19,000
GMW-10	11/03/21	BT for Jacobs	200	4,500
GMW-10	05/13/22	BT for Jacobs	<200	2,400
DUP-7 (GMW-10)	05/13/22	BT for Jacobs	<200	2,700
GMW-10	11/04/22	BT for Jacobs	250	2,400
DUP-6 (GMW-10)	11/04/22	BT for Jacobs	290	2,400
GMW-10	05/04/23	BT for Jacobs	<200	4,000
GMW-12	11/27/96	GSI	99	<500
GMW-12	07/10/97	GTI	110	8,600
GMW-12	01/06/98	GTI	<500	1,000
GMW-12	05/21/98	BBC	<300	-----
GMW-12	11/05/98	GTI	<300	-----
GMW-12	05/27/99	GTI	<300	-----
GMW-12	11/18/99	IT Corporation	<300	-----
GMW-12	05/17/00	IT Corporation	<300	-----
GMW-12	11/30/00	IT Corporation	<300	-----
GMW-12	05/09/01	IT Corporation	<300	-----
GMW-12	11/07/01	IT Corporation	<300	-----
GMW-12	04/11/02	IT Corporation	<300	-----
GMW-12	10/23/02	GTI	<300	-----
GMW-12	04/10/03	Secor	<50	-----
GMW-12	04/14/03	GTI	-----	-----
GMW-12	10/10/03	BT for Parsons	<100	-----
GMW-12	04/21/04	BT for Parsons	<100	-----
GMW-12	11/04/04	BT for Parsons	<100	-----
GMW-12	05/06/05	BT for Parsons	<100	-----
GMW-12	11/08/05	BT for Parsons	<100	-----
GMW-12	05/04/06	BT for Parsons	<100	-----
GMW-12	12/08/06	BT for Parsons	<100	-----
GMW-12	05/04/07	BT for Parsons	<100	-----
GMW-12	11/16/07	BT for Parsons	-----	-----
GMW-12	04/18/08	BT for Parsons	<100	-----
GMW-12	10/16/08	BT for Parsons	<100	-----
GMW-12	04/23/09	BT for Parsons	<100	-----
GMW-12	10/20/09	Blaine Tech for DESC	<100	-----
GMW-12	04/15/10	Blaine Tech for DESC	-----	-----
GMW-12	10/08/10	BT for Parsons	-----	-----
GMW-12	04/11/11	BT for Parsons	-----	-----
GMW-12	10/10/11	Parsons	-----	-----
GMW-12	04/16/12	Parsons	-----	-----
GMW-12	10/15/12	Parsons	-----	-----
GMW-12	04/09/13	Parsons	-----	650 b
GMW-12	10/08/13	Parsons	<100	700
GMW-12	04/16/14	Parsons	<100	1,200
GMW-12	10/29/14	SGI	<100	1,100
GMW-12	04/28/15	SGI	<100	960
GMW-12	04/28/15	SGI	<100	930
GMW-12	10/10/16	SGI	<100	1,400
GMW-12	04/21/17	SGI	<100	150

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HISTORICAL ANALYTICAL RESULTS FOR TPH IN GROUNDWATER
NOVEMBER 1996 THROUGH NOVEMBER 2021**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Sample Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)
Uppermost Aquifer				
GMW-12	10/04/17	SGI	<100	1,100
GMW-12	04/23/18	SGI	<100	1,000
GMW-12	11/12/18	SGI	<100	1,100
GMW-12	04/19/19	SGI	<100	780
GMW-12	10/30/19	SGI	<100	600
GMW-12	05/08/20	SGI	<100	190
GMW-12	10/22/20	SGI	<100	190
GMW-12	05/06/21	SGI/Apex	<100	400
GMW-12	11/08/21	SGI/Apex	<100	790
GMW-12	05/16/22	SGI/Apex	<100	120
GMW-12	11/03/22	SGI/Apex	<100	<100
GMW-12	05/01/23	SGI/Apex	<100	370
GMW-14	05/07/99	Alton Geoscience	<500	<500
GMW-14	11/17/99	Secor	<300	-----
GMW-14	05/16/00	Secor	<300	-----
GMW-14	11/30/00	Secor	<300	-----
GMW-14	05/09/01	Secor	<300	-----
GMW-14	11/06/01	Secor	<300	-----
GMW-14	04/10/02	Secor	<300	-----
GMW-14	10/07/03	Secor	<50	-----
GMW-14	04/22/04	Secor	59	-----
GMW-14	11/02/04	Secor	<50	-----
GMW-14	05/06/05	Secor	<50	-----
GMW-14	11/01/05	Secor	<50	-----
GMW-14	03/08/06	BT for Parsons	520	-----
GMW-14	05/02/06	Secor	<50	-----
GMW-14	12/07/06	Secor	<50	-----
GMW-14	05/04/07	Secor	<50	-----
GMW-14	11/14/07	Secor	1,500	-----
GMW-14	04/16/08	Secor	440	-----
GMW-14	07/29/08	BT for Parsons	210	-----
GMW-14	10/17/08	Stantec	210	-----
GMW-14	04/23/09	Blaine Tech for AMEC GMX	120	-----
GMW-14	10/22/09	BT for Parsons	130	-----
GMW-14	04/16/10	BT for Parsons	-----	-----
GMW-14	10/07/10	Blaine Tech	160	-----
GMW-14	04/13/11	Blaine Tech	<100	-----
GMW-14	10/12/11	CH2M Hill	58	-----
GMW-14	04/19/12	CH2M Hill	<50	130
GMW-14	10/17/12	CHHL	<50	150
GMW-14	04/11/13	CHHL	<50	110
GMW-14	10/10/13	CHHL	<50	110
GMW-14	04/16/14	CHHL	<50	<50
GMW-14	10/30/14	BT for CH2MHill	<100	<50
GMW-14R	04/18/17	BT for CH2MHill	<50	<50
GMW-14R	10/05/17	BT for CH2MHill	<50	71
GMW-14R	04/19/18	BT for Jacobs	<50	<50
GMW-14R	11/08/18	BT for Jacobs	<50	<50
GMW-14R	04/18/19	BT for Jacobs	<50	<50
GMW-14R	10/30/19	BT for Jacobs	<50	<50
GMW-14R	05/11/20	BT for Jacobs	<50	<50
GMW-14R	11/05/20	BT for Jacobs	<50	<50
GMW-14R	05/04/21	BT for Jacobs	<50	<50
GMW-14R	05/10/21	SGI/Apex	<100	<100
GMW-14R	11/02/21	SGI/Apex	<50	<50
GMW-14R	05/12/22	BT for Jacobs	<50	<50
GMW-14R	11/01/22	BT for Jacobs	<50	<50
GMW-14R	05/03/23	BT for Jacobs	<50	<50

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HISTORICAL ANALYTICAL RESULTS FOR TPH IN GROUNDWATER
NOVEMBER 1996 THROUGH NOVEMBER 2021**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Sample Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)
Uppermost Aquifer				
GMW-15	05/20/98	BBC	1,300	-----
GMW-15	11/05/98	GTI	512	-----
GMW-15	05/27/99	GTI	634	-----
GMW-15	11/18/99	IT Corporation	<300	-----
GMW-15	05/16/00	IT Corporation	610	-----
GMW-15	12/01/00	IT Corporation	450	-----
GMW-15	05/10/01	IT Corporation	<300	-----
GMW-15	11/07/01	IT Corporation	<300	-----
GMW-15	04/10/02	IT Corporation	1,900	-----
GMW-15	10/23/02	GTI	840	-----
GMW-15	04/10/03	GTI	-----	-----
GMW-15	10/08/03	BT for Parsons	-----	-----
GMW-15	04/22/04	BT for Parsons	-----	-----
GMW-15	11/06/04	BT for Parsons	-----	-----
GMW-15	05/06/05	BT for Parsons	-----	-----
GMW-15	11/08/05	BT for Parsons	-----	-----
GMW-15	05/03/06	BT for Parsons	-----	-----
GMW-15	12/08/06	BT for Parsons	-----	-----
GMW-15	05/02/07	BT for Parsons	-----	-----
GMW-15	05/02/07	BT for Parsons	-----	-----
GMW-15	11/14/07	BT for Parsons	-----	-----
GMW-15	04/16/08	BT for Parsons	-----	-----
GMW-15	10/15/08	BT for Parsons	-----	-----
GMW-15	04/21/09	BT for Parsons	180	-----
GMW-15	10/20/09	BT for Parsons	-----	-----
GMW-15	04/15/10	BT for Parsons	-----	-----
GMW-15	10/05/10	BT for Parsons	-----	-----
GMW-15	04/14/11	BT for Parsons	-----	-----
GMW-15	10/10/11	Parsons	-----	-----
GMW-15	04/19/12	Parsons	-----	-----
GMW-15	10/15/12	Parsons	-----	-----
GMW-15	04/10/13	Parsons	-----	6200 b
GMW-15	10/08/13	Parsons	350 HD	4,600 HD
GMW-15	04/16/14	Parsons	250 HD	2,700 HD
GMW-15	10/30/14	SGI	<100	1,900
GMW-15	04/28/15	SGI	<100	1,500
GMW-15	10/23/15	SGI	<100	1,300
GMW-15	04/14/16	SGI	<100	3,700
GMW-15	10/10/16	SGI	<100	2,400
GMW-15	04/21/17	SGI	<100	1,600
GMW-15	10/05/17	SGI	<100	2,000
GMW-15	04/20/18	SGI	<100	3,400
GMW-15	11/12/18	SGI	<100	4,200
GMW-15	04/19/19	SGI	<100	2,200
GMW-15	11/06/19	SGI	<100	1,800
GMW-15	05/11/20	SGI	<100	220
GMW-15 (DUP)	05/11/20	SGI	<100	310
GMW-15	10/23/20	SGI	<100	720
GMW-15	05/07/21	SGI/Apex	<100	170

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HISTORICAL ANALYTICAL RESULTS FOR TPH IN GROUNDWATER
NOVEMBER 1996 THROUGH NOVEMBER 2021**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Sample Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)
Uppermost Aquifer				
GMW-15	11/03/21	SGL/Apex	<100	330
GMW-15	05/16/22	SGL/Apex	<100	370
GMW-15	11/07/22	SGL/Apex	<100	490
GMW-15	05/08/23	SGL/Apex	<100	480
GMW-17	05/10/01	IT Corporation	6,800	-----
GMW-17	10/24/02	GTI	49,000	-----
GMW-17	04/14/03	GTI	-----	-----
GMW-17	10/10/03	BT for Parsons	-----	-----
GMW-17	04/22/04	BT for Parsons	-----	-----
GMW-17	11/06/04	BT for Parsons	-----	-----
GMW-17	05/10/05	BT for Parsons	-----	-----
GMW-17	11/08/05	BT for Parsons	-----	-----
GMW-17	05/05/06	BT for Parsons	-----	-----
GMW-17	12/08/06	BT for Parsons	-----	-----
GMW-17	05/03/07	BT for Parsons	-----	-----
GMW-17	11/14/07	BT for Parsons	-----	-----
GMW-17	04/18/08	BT for Parsons	-----	-----
GMW-17	10/17/08	BT for Parsons	-----	-----
GMW-17	04/22/09	BT for Parsons	450	-----
GMW-17	10/20/09	BT for Parsons	-----	-----
GMW-17	04/14/10	BT for Parsons	1,200	-----
GMW-17	10/05/10	BT for Parsons	1,200	-----
GMW-17	04/15/11	BT for Parsons	750	-----
GMW-17	10/10/11	Parsons	<1,100	-----
GMW-17	04/20/12	Parsons	610	-----
GMW-17	04/12/13	Parsons	1,000 b	6,700
GMW-17	10/09/13	Parsons	680 HD	4,200 HD
GMW-17	04/18/14	Parsons	1,400 HD	5,700 HD
GMW-17	10/31/14	SGL	510	2,300
GMW-17	10/31/14	SGL	460	2,200
GMW-17R	10/09/17	SGL	640	1,200
GMW-17R	04/20/18	SGL	550	1,600 J
GMW-17R	11/12/18	SGL	1,300	1,600
GMW-17R	04/19/19	SGL	<100	220
GMW-17R	10/31/19	SGL	<100	<100
GMW-17R	05/07/20	SGL	<100	<100
GMW-17R	10/20/20	SGL	<100	<100
GMW-17R	05/04/21	SGL/Apex	<100	<100
GMW-17R	11/08/21	SGL/Apex	<100	140
GMW-17R	05/12/22	SGL/Apex	<100	<100
GMW-17R	11/02/22	SGL/Apex	<100	<100
DUP-3 (GMW-17R)	11/02/22	SGL/Apex	<100	<100
GMW-17R	05/03/23	SGL/Apex	<100	<100
GMW-18	04/14/03	GTI	-----	-----
GMW-18	10/08/03	BT for Parsons	-----	-----
GMW-18	04/21/04	BT for Parsons	-----	-----
GMW-18	11/04/04	BT for Parsons	-----	-----
GMW-18	05/06/05	BT for Parsons	-----	-----
GMW-18	11/08/05	BT for Parsons	-----	-----
GMW-18	05/04/06	BT for Parsons	-----	-----
GMW-18	12/08/06	BT for Parsons	-----	-----
GMW-18	05/03/07	BT for Parsons	-----	-----
GMW-18	11/15/07	BT for Parsons	-----	-----
GMW-18	04/17/08	BT for Parsons	-----	-----
GMW-18	10/16/08	BT for Parsons	-----	-----
GMW-18	04/23/09	BT for Parsons	880	-----
GMW-18	10/20/09	BT for Parsons	-----	-----

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HISTORICAL ANALYTICAL RESULTS FOR TPH IN GROUNDWATER
NOVEMBER 1996 THROUGH NOVEMBER 2021**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Sample Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)
Uppermost Aquifer				
GMW-18	04/16/10	BT for Parsons	1,500	-----
GMW-18	04/20/12	Parsons	2,100	-----
GMW-18	07/10/12	Parsons	-----	-----
GMW-18	11/03/14	SGI	15,000	230,000
GMW-18	11/03/14	SGI	37,000	220,000
GMW-18	04/21/15	SGI	4,300	300,000
GMW-18	05/10/19	SGI	<100	1,200
GMW-18	05/11/20	SGI	<100	1,600
GMW-18	10/26/20	SGI	120	380
GMW-18	05/07/21	SGI/Apex	<100	220
GMW-18	11/08/21	SGI/Apex	<100	250
GMW-18	05/16/22	SGI/Apex	<100	430
GMW-18	11/07/22	SGI/Apex	<100	140
GMW-18	05/04/23	SGI/Apex	<100	840
GMW-19	11/27/96	GSI	3,000	<500
GMW-19	07/10/97	GTI	<50	<50
GMW-19	01/07/98	GTI	<500	<100
GMW-19	05/21/98	BBC	<300	-----
GMW-19	11/06/98	GTI	<300	-----
GMW-19	05/27/99	GTI	<300	-----
GMW-19	11/18/99	IT Corporation	<300	-----
GMW-19	05/17/00	IT Corporation	<300	-----
GMW-19	12/01/00	IT Corporation	<300	-----
GMW-19	05/09/01	IT Corporation	<300	-----
GMW-19	11/08/01	IT Corporation	<300	-----
GMW-19	04/11/02	IT Corporation	<300	-----
GMW-19	10/23/02	GTI	<300	-----
GMW-19	04/14/03	GTI	-----	-----
GMW-19	10/10/03	BT for Parsons	-----	-----
GMW-19	04/21/04	BT for Parsons	-----	-----
GMW-19	11/04/04	BT for Parsons	-----	-----
GMW-19	05/06/05	BT for Parsons	-----	-----
GMW-19	11/08/05	BT for Parsons	-----	-----
GMW-19	05/04/06	BT for Parsons	-----	-----
GMW-19	12/08/06	BT for Parsons	-----	-----
GMW-19	05/03/07	BT for Parsons	-----	-----
GMW-19	11/15/07	BT for Parsons	-----	-----
GMW-19	04/17/08	BT for Parsons	-----	-----
GMW-19	10/16/08	BT for Parsons	-----	-----
GMW-19	04/23/09	BT for Parsons	-----	-----
GMW-19	10/20/09	BT for Parsons	-----	-----
GMW-19	04/16/10	BT for Parsons	-----	-----
GMW-19	10/08/10	BT for Parsons	-----	-----
GMW-19	10/10/11	Parsons	-----	-----
GMW-19	04/18/12	Parsons	-----	-----
GMW-19	10/15/12	Parsons	-----	-----
GMW-19	04/10/13	Parsons	-----	1200 b
GMW-19	10/07/13	Parsons	<100	<100
GMW-19	04/14/14	Parsons	<100	<100
GMW-19	10/28/14	SGI	<100	130
GMW-19	10/28/14	SGI	<100	120
GMW-19	04/28/15	SGI	490	1,000
GMW-19	10/23/15	SGI	<100	390
GMW-19	04/21/17	SGI	<100	<100
GMW-19	10/03/17	SGI	<100	210
GMW-19	04/18/18	SGI	<100	160
GMW-19	11/06/18	SGI	220	180
GMW-19	04/22/19	SGI	160	200

**TABLE C3
HISTORICAL ANALYTICAL RESULTS FOR TPH IN GROUNDWATER
NOVEMBER 1996 THROUGH NOVEMBER 2021**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Sample Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)
Uppermost Aquifer				
GMW-19	11/06/19	SGI	<100	<100
GMW-19	05/06/20	SGI	<100	170
GMW-19	10/23/20	SGI	<100	140
GMW-19	05/06/21	SGI/Apex	150	420
GMW-19	11/08/21	SGI/Apex	<100	250
GMW-19	05/16/22	SGI/Apex	<100	190
GMW-19	11/03/22	SGI/Apex	<100	<100
GMW-19	05/02/23	SGI/Apex	<100	<100
GMW-21	11/03/14	SGI	1,500	2,500
GMW-21	04/29/15	SGI	300	2,200
GMW-21	04/29/15	SGI	300	2,100
GMW-21	04/14/16	SGI	170	1,300
GMW-21	10/10/16	SGI	130	2,500
GMW-21	04/21/17	SGI	180	3,300
GMW-21	04/23/18	SGI	<100	3,700
GMW-21	11/12/18	SGI	<100	4,200
DUPE-6 (GMW-21)	11/12/18	SGI	<100	4,000
GMW-21	04/19/19	SGI	<100	3,000
GMW-21	11/06/19	SGI	<100	4,600
GMW-21	05/11/20	SGI	<100	470
GMW-21	10/23/20	SGI	<100	2,600
GMW-21	05/12/21	SGI/Apex	<100	570
GMW-21	11/05/21	SGI/Apex	<100	<100
GMW-21	05/09/22	SGI/Apex	<100	<100
GMW-21	11/02/22	SGI/Apex	<100	<100
GMW-21	05/03/23	SGI/Apex	<100	180
GMW-31	11/27/96	GSI	1,100	<500
GMW-31	07/10/97	GTI	55	550
GMW-31	01/07/98	GTI	<500	<100
GMW-31	05/21/98	BBC	<300	-----
GMW-31	11/06/98	GTI	<300	-----
GMW-31	05/27/99	GTI	<300	-----
GMW-31	11/18/99	IT Corporation	<300	-----
GMW-31	05/17/00	IT Corporation	<300	-----
GMW-31	12/01/00	IT Corporation	530	-----
GMW-31	05/10/01	IT Corporation	<300	-----
GMW-31	11/07/01	IT Corporation	<300	-----
GMW-31	04/10/02	IT Corporation	<300	-----
GMW-31	10/24/02	GTI	<300	-----
GMW-31	04/14/03	GTI	-----	-----
GMW-31	10/10/03	BT for Parsons	-----	-----
GMW-31	04/22/04	BT for Parsons	-----	-----
GMW-31	11/06/04	BT for Parsons	-----	-----
GMW-31	05/07/05	BT for Parsons	-----	-----
GMW-31	11/08/05	BT for Parsons	-----	-----
GMW-31	05/05/06	BT for Parsons	-----	-----
GMW-31	12/08/06	BT for Parsons	-----	-----
GMW-31	05/03/07	BT for Parsons	-----	-----
GMW-31	11/14/07	BT for Parsons	-----	-----
GMW-31	04/18/08	BT for Parsons	-----	-----
GMW-31	10/17/08	BT for Parsons	-----	-----
GMW-31	04/22/09	BT for Parsons	-----	-----
GMW-31	10/20/09	BT for Parsons	-----	-----
GMW-31	04/14/10	BT for Parsons	-----	-----
GMW-31	10/08/10	BT for Parsons	-----	-----
GMW-31	04/11/11	BT for Parsons	-----	-----
GMW-31	10/10/11	Parsons	-----	-----

**TABLE C3
HISTORICAL ANALYTICAL RESULTS FOR TPH IN GROUNDWATER
NOVEMBER 1996 THROUGH NOVEMBER 2021**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Sample Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)
Uppermost Aquifer				
GMW-31	04/16/12	Parsons	----	----
GMW-31	10/16/12	Parsons	----	----
GMW-31	04/08/13	Parsons	----	120 b
GMW-31	10/07/13	Parsons	<100	210
GMW-31	04/14/14	Parsons	<100	170
GMW-31	10/29/14	SGI	<100	160
GMW-31	04/28/15	SGI	<100	340
GMW-31	04/20/17	SGI	<100	120
GMW-31	10/05/17	SGI	<100	270
GMW-31	04/19/18	SGI	<100	150
GMW-31	11/08/18	SGI	<100	230
GMW-31	04/17/19	SGI	<100	<100
GMW-31	10/29/19	SGI	<100	120
GMW-31	05/06/20	SGI	<100	<100
GMW-31	10/20/20	SGI	<100	<100
GMW-31	05/06/21	SGI/Apex	<100	290
GMW-31	11/08/21	SGI/Apex	<100	160
GMW-31	05/12/22	SGI/Apex	<100	170
GMW-31	11/04/22	SGI/Apex	<100	10,000
DUP-5 (GMW-31)	11/04/22	SGI/Apex	<100	15,000
GMW-31	05/09/23	SGI/Apex	<100	400
GMW-35	05/09/01	IT Corporation	20,000	----
GMW-35	04/10/03	GTI	----	----
GMW-35	10/10/03	BT for Parsons	----	----
GMW-35	04/21/04	BT for Parsons	----	----
GMW-35	11/04/04	BT for Parsons	----	----
GMW-35	05/05/05	BT for Parsons	----	----
GMW-35	11/05/05	BT for Parsons	----	----
GMW-35	05/03/06	BT for Parsons	----	----
GMW-35	12/08/06	BT for Parsons	----	----
GMW-35	05/04/07	BT for Parsons	----	----
GMW-35	11/15/07	BT for Parsons	----	----
GMW-35	04/17/08	BT for Parsons	----	----
GMW-35	04/24/09	BT for Parsons	----	----
GMW-35	04/16/10	BT for Parsons	----	----
GMW-35R	10/09/17	SGI	160	1,400
GMW-35R	04/23/18	SGI	160	1,100
DUP-6 (GMW-35R)	04/23/18	SGI	110 J	1,100
GMW-35R	11/12/18	SGI	450	2,100
GMW-35R	04/22/19	SGI	190	1,300
GMW-35R	11/06/19	SGI	220	1,200
GMW-35R	05/11/20	SGI	1,200	2,100
GMW-35R	10/26/20	SGI	730	1,500
GMW-35R	05/10/21	SGI/Apex	<100	100
GMW-35R	11/04/21	SGI/Apex	460	1,300
GMW-35R	05/19/22	SGI/Apex	<100	<100
GMW-35R	11/01/22	SGI/Apex	<100	<100
GMW-35R	05/04/23	SGI/Apex	<100	<100
DUP (GMW-35R)	05/04/23	SGI/Apex	<100	<100
GMW-42	11/05/98	GTI	7,530	----
GMW-42	05/27/99	GTI	6,510	----
GMW-42	11/18/99	IT Corporation	7,900	----
GMW-42	05/17/00	IT Corporation	3,800	----
GMW-42	12/01/00	IT Corporation	380	----
GMW-42	05/10/01	IT Corporation	490	----
GMW-42	11/07/01	IT Corporation	<300	----
GMW-42	04/10/02	IT Corporation	<300	----

**TABLE C3
HISTORICAL ANALYTICAL RESULTS FOR TPH IN GROUNDWATER
NOVEMBER 1996 THROUGH NOVEMBER 2021**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Sample Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)
Uppermost Aquifer				
GMW-42	10/09/13	Parsons	<100	120 HD
GMW-42	04/14/14	Parsons	<100	<100
GMW-42	10/27/14	SGI	<100	<100
GMW-42	04/22/15	SGI	<100	<100
GMW-42	04/17/17	SGI	<100	<100
GMW-42	10/03/17	SGI	<100	180
GMW-42	04/20/18	SGI	<100	140
GMW-42	11/08/18	SGI	<100	<100
GMW-42	04/17/19	SGI	<100	<100
GMW-42	10/29/19	SGI	<100	<100
GMW-42	05/06/20	SGI	<100	<100
GMW-42	10/20/20	SGI	<100	<100
GMW-42	05/04/21	SGI/Apex	<100	130
GMW-42	11/04/21	SGI/Apex	<100	<100
GMW-42	05/10/22	SGI/Apex	<100	<100
GMW-42	11/02/22	SGI/Apex	<100	<100
GMW-42	05/03/23	SGI/Apex	<100	170
GMW-43	11/27/96	GSI	620	<500
GMW-43	07/10/97	GTI	<50	<50
GMW-43	01/07/98	GTI	<500	<100
GMW-43	05/21/98	BBC	<300	-----
GMW-43	11/05/98	GTI	<300	-----
GMW-43	05/27/99	GTI	<300	-----
GMW-43	11/18/99	IT Corporation	<300	-----
GMW-43	05/17/00	IT Corporation	<300	-----
GMW-43	11/30/00	IT Corporation	<300	-----
GMW-43	05/09/01	IT Corporation	<300	-----
GMW-43	11/07/01	IT Corporation	<300	-----
GMW-43	04/11/02	IT Corporation	<300	-----
GMW-43	10/23/02	GTI	<300	-----
GMW-43	04/14/03	GTI	-----	-----
GMW-43	10/08/03	BT for Parsons	-----	-----
GMW-43	04/21/04	BT for Parsons	-----	-----
GMW-43	11/06/04	BT for Parsons	-----	-----
GMW-43	05/10/05	BT for Parsons	-----	-----
GMW-43	11/08/05	BT for Parsons	-----	-----
GMW-43	05/04/06	BT for Parsons	-----	-----
GMW-43	12/08/06	BT for Parsons	-----	-----
GMW-43	05/03/07	BT for Parsons	-----	-----
GMW-43	11/15/07	BT for Parsons	-----	-----
GMW-43	04/17/08	BT for Parsons	-----	-----
GMW-43	10/16/08	BT for Parsons	-----	-----
GMW-43	04/23/09	BT for Parsons	-----	-----
GMW-43	10/21/09	BT for Parsons	-----	-----
GMW-43	04/15/10	BT for Parsons	-----	-----
GMW-43	10/08/10	BT for Parsons	-----	-----
GMW-43	04/11/11	BT for Parsons	-----	-----
GMW-43	10/11/11	Parsons	-----	-----
GMW-43	04/16/12	Parsons	-----	-----
GMW-43	10/16/12	Parsons	-----	-----
GMW-43	04/08/13	Parsons	-----	<100
GMW-43	10/07/13	Parsons	<100	180
GMW-43	04/14/14	Parsons	<100	<100
GMW-43	10/27/14	SGI	<100	<100
GMW-43	04/22/15	SGI	<100	<100
GMW-43	04/17/17	SGI	<100	550
GMW-43	04/18/18	SGI	<100	660
GMW-43	11/06/18	SGI	<100	240

**TABLE C3
HISTORICAL ANALYTICAL RESULTS FOR TPH IN GROUNDWATER
NOVEMBER 1996 THROUGH NOVEMBER 2021**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Sample Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)
Uppermost Aquifer				
GMW-43	04/19/19	SGI	<100	190
GMW-43	10/31/19	SGI	<100	300
GMW-43	05/06/20	SGI	<100	190
GMW-43	10/22/20	SGI	<100	390
GMW-43	05/10/21	SGI/Apex	<100	250
GMW-43	11/08/21	SGI/Apex	<100	220
GMW-43	05/19/22	SGI/Apex	<100	140
DUP-6 (GMW-43)	05/19/22	SGI/Apex	<100	260
GMW-43	11/03/22	SGI/Apex	<100	<100
GMW-43	05/04/23	SGI/Apex	<100	360
GMW-45	11/22/96	GSI	23,000	<500
GMW-45	07/09/97	GTI	1,100	2,700
GMW-45	01/06/98	GTI	3,200	3,400
GMW-45	05/20/98	BBC	4,200	-----
GMW-45	11/05/98	GTI	1,400	-----
GMW-45	05/27/99	GTI	3,750	-----
GMW-45	11/18/99	IT Corporation	3,960	-----
GMW-45	05/17/00	IT Corporation	5,200	-----
GMW-45	11/29/00	IT Corporation	2,400	-----
GMW-45	05/09/01	IT Corporation	6,500	-----
GMW-45	11/07/01	IT Corporation	5,700	-----
GMW-45	04/10/02	IT Corporation	9,800	-----
GMW-45	10/23/02	GTI	3,200	-----
GMW-45	04/10/03	GTI	-----	-----
GMW-45	10/08/03	BT for Parsons	-----	-----
GMW-45	04/21/04	BT for Parsons	-----	-----
GMW-45	11/04/04	BT for Parsons	-----	-----
GMW-45	05/05/05	BT for Parsons	-----	-----
GMW-45	11/05/05	BT for Parsons	-----	-----
GMW-45	05/03/06	BT for Parsons	-----	-----
GMW-45	12/05/06	BT for Parsons	-----	-----
GMW-45	05/02/07	BT for Parsons	-----	-----
GMW-45	11/14/07	BT for Parsons	-----	-----
GMW-45	04/16/08	BT for Parsons	-----	-----
GMW-45	10/15/08	BT for Parsons	-----	-----
GMW-45	04/21/09	BT for Parsons	-----	-----
GMW-45	10/21/09	BT for Parsons	-----	-----
GMW-45	04/12/10	BT for Parsons	-----	-----
GMW-45	10/07/10	BT for Parsons	-----	-----
GMW-45	04/14/11	BT for Parsons	-----	-----
GMW-45	10/11/11	Parsons	-----	-----
GMW-45	04/19/12	Parsons	-----	-----
GMW-45	10/17/12	Parsons	-----	-----
GMW-45	04/11/13	Parsons	-----	3,400
GMW-45	10/30/14	SGI	1,500	3,700
GMW-45	10/10/16	SGI	2,200	4,500
GMW-45	05/10/19	SGI	3,500	25,000
GMW-45	11/07/19	SGI	4,300	9,400
GMW-45	05/11/20	SGI	1,500	2,700
GMW-45	10/26/20	SGI	2,700	720
GMW-45	05/10/21	SGI/Apex	1,200	1,900
GMW-45	11/08/21	SGI/Apex	230	790
GMW-45	05/19/22	SGI/Apex	270	1,500
GMW-45	11/08/22	SGI/Apex	<100	720
GMW-45	05/08/23	SGI/Apex	<100	190
GMW-47	11/27/96	GSI	9,600	<500
GMW-47	07/09/97	GTI	420	93

**TABLE C3
HISTORICAL ANALYTICAL RESULTS FOR TPH IN GROUNDWATER
NOVEMBER 1996 THROUGH NOVEMBER 2021**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Sample Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)
Uppermost Aquifer				
GMW-47	01/06/98	GTI	1,900	<100
GMW-47	05/20/98	BBC	<300	-----
GMW-47	11/05/98	GTI	1,700	-----
GMW-47	05/26/99	GTI	<300	-----
GMW-47	11/18/99	IT Corporation	2,100	-----
GMW-47	05/17/00	IT Corporation	7,200	-----
GMW-47	11/29/00	IT Corporation	990	-----
GMW-47	03/30/01	IT Corporation	-----	-----
GMW-47	05/09/01	IT Corporation	7,600	-----
GMW-47	11/07/01	IT Corporation	1,500	-----
GMW-47	04/10/02	IT Corporation	4,100	-----
GMW-47	10/23/02	GTI	4,000	-----
GMW-47	04/09/03	GTI	-----	-----
GMW-47	09/18/03	BT for Parsons	-----	-----
GMW-47	10/08/03	BT for Parsons	140	-----
GMW-47	02/21/04	BT for Parsons	-----	-----
GMW-47	04/21/04	BT for Parsons	160	-----
GMW-47	07/21/04	BT for Parsons	330	-----
GMW-47	11/03/04	BT for Parsons	<100	-----
GMW-47	03/02/05	BT for Parsons	170	-----
GMW-47	05/05/05	BT for Parsons	420	-----
GMW-47	08/04/05	BT for Parsons	<100	-----
GMW-47	11/05/05	BT for Parsons	<100	-----
GMW-47	03/08/06	BT for Parsons	<100	-----
GMW-47	05/03/06	BT for Parsons	<100	-----
GMW-47	07/28/06	BT for Parsons	<100	-----
GMW-47	12/05/06	BT for Parsons	<100	-----
GMW-47	03/23/07	BT for Parsons	<100	-----
GMW-47	05/02/07	BT for Parsons	<100	-----
GMW-47	08/31/07	BT for Parsons	<100	-----
GMW-47	11/13/07	BT for Parsons	<100	-----
GMW-47	02/07/08	BT for Parsons	<100	-----
GMW-47	04/16/08	BT for Parsons	<100	-----
GMW-47	07/29/08	BT for Parsons	<100	-----
GMW-47	10/15/08	BT for Parsons	<100	-----
GMW-47	02/12/09	BT for Parsons	170	-----
GMW-47	04/20/09	BT for Parsons	180	-----
GMW-47	07/20/09	Blaine Tech for AMEC GMX	200	-----
GMW-47	10/19/09	BT for Parsons	170	-----
GMW-47	01/11/10	BT for Parsons	-----	-----
GMW-47	04/19/10	BT for Parsons	-----	-----
GMW-47	10/06/10	BT for Parsons	-----	-----
GMW-47	01/11/11	BT for Parsons	-----	-----
GMW-47	04/14/11	BT for Parsons	-----	-----
GMW-47	07/12/11	Parsons	-----	-----
GMW-47	10/11/11	Parsons	-----	-----
GMW-47	01/10/12	Parsons	-----	-----
GMW-47	04/20/12	Parsons	-----	-----
GMW-47	07/10/12	Parsons	-----	-----
GMW-47	10/17/12	Parsons	-----	-----
GMW-47	01/15/13	Parsons	-----	580 b
GMW-47	04/11/13	Parsons	-----	1,500 b
GMW-47	10/08/13	Parsons	<100	990
GMW-47	04/16/14	Parsons	<100	1,500
GMW-47	10/29/14	SGI	<100	2,100
GMW-47	04/28/15	SGI	<100	2,100
GMW-47	10/26/15	SGI	<100	1,300
GMW-47	04/14/16	SGI	<100	450
GMW-47	10/07/16	SGI	<100	2,000

**TABLE C3
HISTORICAL ANALYTICAL RESULTS FOR TPH IN GROUNDWATER
NOVEMBER 1996 THROUGH NOVEMBER 2021**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Sample Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)
Uppermost Aquifer				
GMW-47	04/21/17	SGI	<100	860
GMW-47	10/04/17	SGI	<100	980
GMW-47	04/23/18	SGI	<100	890
GMW-47	11/12/18	SGI	<100	2,400
GMW-47	04/22/19	SGI	<100	1,000
GMW-47	05/10/19	SGI	<100	2,100
GMW-47	11/06/19	SGI	<100	600
GMW-47	05/08/20	SGI	170	1,800
GMW-47	10/26/20	SGI	130	750
GMW-47	05/10/21	SGI/Apex	140	790
GMW-47	11/05/21	SGI/Apex	240	590
GMW-47	05/12/22	SGI/Apex	440	650
GMW-47	11/08/22	SGI/Apex	160	320
DUP-7 (GMW-47)	11/08/22	SGI/Apex	130	320
GMW-47	05/08/23	SGI/Apex	<100	340
GMW-48	11/22/96	GSI	56,000	<500
GMW-48	10/09/13	Parsons	1,200 HD	3,100
GMW-48	04/17/14	Parsons	1,800 HD	1,900
GMW-48	10/31/14	SGI	2,600	3,100
GMW-48	04/29/15	SGI	1,000	2,400
GMW-48	10/26/15	SGI	1,500	1,800
GMW-48	10/11/16	SGI	470	1,100
GMW-48	04/21/17	SGI	460	1,500
GMW-48	10/09/17	SGI	360	1,400
GMW-48	04/23/18	SGI	280	810
GMW-48	11/15/18	SGI	150	690
GMW-48	04/18/19	SGI	<100	500
GMW-48	10/30/19	SGI	<100	450
GMW-48	05/08/20	SGI	<100	<100
GMW-48	10/21/20	SGI	<100	130
GMW-48	05/05/21	SGI/Apex	<100	150
GMW-48	11/04/21	SGI/Apex	<100	<100
GMW-48	05/10/22	SGI/Apex	<100	<100
DUP-2 (GMW-48)	05/10/22	SGI/Apex	<100	<100
GMW-48	11/01/22	SGI/Apex	<100	<100
GMW-48	05/02/23	SGI/Apex	<100	<100
DUP (GMW-48)	05/02/23	SGI/Apex	<100	<100
GMW-57	11/05/98	GTI	<300	----
GMW-57	05/26/99	GTI	379	----
GMW-57	11/18/99	IT Corporation	4,000	----
GMW-57	05/17/00	IT Corporation	17,000	----
GMW-57	11/29/00	IT Corporation	11,000	----
GMW-57	03/30/01	IT Corporation	----	----
GMW-57	05/09/01	IT Corporation	28,000	----
GMW-57	11/07/01	IT Corporation	19,000	----
GMW-57	04/10/02	IT Corporation	5,000	----
GMW-57	10/23/02	GTI	1,700	----
GMW-57	04/09/03	GTI	----	----
GMW-57	09/18/03	BT for Parsons	----	----
GMW-57	10/11/03	BT for Parsons	200	----
GMW-57	02/21/04	BT for Parsons	----	----
GMW-57	04/21/04	BT for Parsons	110	----
GMW-57	07/21/04	BT for Parsons	340	----
GMW-57	11/03/04	BT for Parsons	120	----
GMW-57	03/02/05	BT for Parsons	400	----
GMW-57	05/05/05	BT for Parsons	280	----
GMW-57	08/04/05	BT for Parsons	170	----

**TABLE C3
HISTORICAL ANALYTICAL RESULTS FOR TPH IN GROUNDWATER
NOVEMBER 1996 THROUGH NOVEMBER 2021**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Sample Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)
Uppermost Aquifer				
GMW-57	11/05/05	BT for Parsons	120	-----
GMW-57	03/08/06	BT for Parsons	180	-----
GMW-57	05/03/06	BT for Parsons	<100	-----
GMW-57	07/28/06	BT for Parsons	180	-----
GMW-57	12/05/06	BT for Parsons	<100	-----
GMW-57	03/23/07	BT for Parsons	120	-----
GMW-57	05/02/07	BT for Parsons	120	-----
GMW-57	08/31/07	BT for Parsons	110	-----
GMW-57	11/13/07	BT for Parsons	160	-----
GMW-57	02/07/08	BT for Parsons	150	-----
GMW-57	04/16/08	BT for Parsons	<100	-----
GMW-57	07/29/08	BT for Parsons	<100	-----
GMW-57	10/15/08	BT for Parsons	<100	-----
GMW-57	02/12/09	BT for Parsons	<100	-----
GMW-57	04/20/09	BT for Parsons	<100	-----
GMW-57	07/21/09	Blaine Tech for AMEC GMX	<100	-----
GMW-57	10/19/09	BT for Parsons	<100	-----
GMW-57	01/11/10	BT for Parsons	-----	-----
GMW-57	04/12/10	BT for Parsons	-----	-----
GMW-57	10/06/10	BT for Parsons	-----	-----
GMW-57	01/10/11	BT for Parsons	-----	-----
GMW-57	04/11/11	BT for Parsons	-----	-----
GMW-57	07/11/11	Parsons	-----	-----
GMW-57	10/11/11	Parsons	-----	-----
GMW-57	01/09/12	Parsons	-----	-----
GMW-57	04/17/12	Parsons	-----	-----
GMW-57	07/09/12	Parsons	-----	-----
GMW-57	10/16/12	Parsons	-----	-----
GMW-57	01/14/13	Parsons	-----	<100
GMW-57	04/08/13	Parsons	-----	180 b
GMW-57	10/08/13	Parsons	<100	140
GMW-57	04/16/14	Parsons	<100	340
GMW-57	10/29/14	SGI	140	380
GMW-57	04/28/15	SGI	<100	310
GMW-57	10/22/15	SGI	<100	440
GMW-57	04/13/16	SGI	<100	400
GMW-57	10/07/16	SGI	<100	570
GMW-57	04/20/17	SGI	<100	670
GMW-57	10/04/17	SGI	<100	380
GMW-57	04/17/18	SGI	<100	370
GMW-57	11/09/18	SGI	<100	730
GMW-57	04/18/19	SGI	<100	370
GMW-57	10/30/19	SGI	<100	460
GMW-57	05/08/20	SGI	160	170
GMW-57	10/23/20	SGI	<100	320
GMW-57	05/10/21	SGI/Apex	<100	140
GMW-57	11/04/21	SGI/Apex	<100	<100
GMW-57	05/11/22	SGI/Apex	<100	180
GMW-57	11/03/22	SGI/Apex	<100	<100
GMW-57	05/02/23	SGI/Apex	<100	130
GMW-58	11/04/98	GTI	2,590	-----
GMW-58	05/26/99	GTI	1,360	-----
GMW-58	11/18/99	IT Corporation	1,600	-----
GMW-58	05/17/00	IT Corporation	21,000	-----
GMW-58	03/02/05	BT for Parsons	5,800	-----

**TABLE C3
HISTORICAL ANALYTICAL RESULTS FOR TPH IN GROUNDWATER
NOVEMBER 1996 THROUGH NOVEMBER 2021**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Sample Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)
Uppermost Aquifer				
GMW-58	05/05/05	BT for Parsons	12,000	-----
GMW-58	08/04/05	BT for Parsons	5,800	-----
GMW-58	11/05/05	BT for Parsons	6,300	-----
GMW-58	03/08/06	BT for Parsons	5,300	-----
GMW-58	05/03/06	BT for Parsons	2,900	-----
GMW-58	07/28/06	BT for Parsons	3,200	-----
GMW-58	03/23/07	BT for Parsons	1,700	-----
GMW-58	05/02/07	BT for Parsons	2,200	-----
GMW-58	08/31/07	BT for Parsons	3,000	-----
GMW-58	11/13/07	BT for Parsons	2,000	-----
GMW-58	02/07/08	BT for Parsons	1,100	-----
GMW-58	04/16/08	BT for Parsons	1,100	-----
GMW-58	07/29/08	BT for Parsons	870	-----
GMW-58	10/15/08	BT for Parsons	1,200	-----
GMW-58	02/12/09	BT for Parsons	1,000	-----
GMW-58	04/20/09	BT for Parsons	130	-----
GMW-58	07/20/09	Blaine Tech for AMEC GMX	100	-----
GMW-58	10/19/09	BT for Parsons	1,000	-----
GMW-58	01/11/10	BT for Parsons	-----	-----
GMW-58	04/19/10	BT for Parsons	-----	-----
GMW-58	10/06/10	BT for Parsons	-----	-----
GMW-58	01/10/11	BT for Parsons	-----	-----
GMW-58	04/13/11	BT for Parsons	-----	-----
GMW-58	07/11/11	Parsons	-----	-----
GMW-58	10/11/11	Parsons	-----	-----
GMW-58	04/18/12	Parsons	-----	-----
GMW-58	07/10/12	Parsons	-----	-----
GMW-58	10/17/12	Parsons	-----	-----
GMW-58	01/15/13	Parsons	-----	420 b
GMW-58	04/10/13	Parsons	-----	1,600 b
GMW-58	10/08/13	Parsons	460	1,200
GMW-58	04/16/14	Parsons	600	920
GMW-58	10/29/14	SGI	280	340
GMW-58	10/29/14	SGI	260	420
GMW-58	04/28/15	SGI	<100	410
GMW-58	04/15/16	SGI	<100	290
GMW-58	04/20/17	SGI	150	1,400
GMW-58	10/09/17	SGI	<100	960
GMW-58	11/07/19	SGI	390	1,400
GMW-58	05/11/20	SGI	<100	140
GMW-58	10/22/20	SGI	<100	<100
GMW-58	05/05/21	SGI/Apex	<100	<100
GMW-58	11/02/21	SGI/Apex	<100	420
GMW-58	05/12/22	SGI/Apex	<100	<100
GMW-58	11/01/22	SGI/Apex	<100	2,300
GMW-58	05/08/23	SGI/Apex	<100	<100
GMW-59	11/04/98	GTI	9,880	-----
GMW-59	11/29/00	IT Corporation	67,000	-----
GMW-59	04/10/03	GTI	-----	-----
GMW-59	10/08/03	BT for Parsons	-----	-----
GMW-59	04/21/04	BT for Parsons	-----	-----
GMW-59	11/03/04	BT for Parsons	-----	-----
GMW-59	03/02/05	BT for Parsons	4,200	-----
GMW-59	05/05/05	BT for Parsons	11,000	-----
GMW-59	08/04/05	BT for Parsons	6,400	-----
GMW-59	11/05/05	BT for Parsons	9,500	-----
GMW-59	03/08/06	BT for Parsons	4,600	-----
GMW-59	05/03/06	BT for Parsons	9,900	-----

**TABLE C3
HISTORICAL ANALYTICAL RESULTS FOR TPH IN GROUNDWATER
NOVEMBER 1996 THROUGH NOVEMBER 2021**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Sample Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)
Uppermost Aquifer				
GMW-59	07/28/06	BT for Parsons	3,200	-----
GMW-59	12/05/06	BT for Parsons	-----	-----
GMW-59	03/23/07	BT for Parsons	8,200	-----
GMW-59	05/02/07	BT for Parsons	4,800	-----
GMW-59	08/31/07	BT for Parsons	4,800	-----
GMW-59	11/13/07	BT for Parsons	4,700	-----
GMW-59	02/07/08	BT for Parsons	3,200	-----
GMW-59	04/16/08	BT for Parsons	3,600	-----
GMW-59	07/29/08	BT for Parsons	2,300	-----
GMW-59	10/15/08	BT for Parsons	2,500	-----
GMW-59	02/12/09	BT for Parsons	2,500	-----
GMW-59	04/20/09	BT for Parsons	8,500	-----
GMW-59	07/20/09	Blaine Tech for AMEC GMX	6,700	-----
GMW-59	10/21/09	BT for Parsons	2,600	-----
GMW-59	01/11/10	BT for Parsons	-----	-----
GMW-59	04/19/10	BT for Parsons	2,900	-----
GMW-59	10/06/10	BT for Parsons	850	-----
GMW-59	01/11/11	BT for Parsons	2,500	-----
GMW-59	04/14/11	BT for Parsons	10,000	-----
GMW-59	07/12/11	Parsons	1,400	-----
GMW-59	10/11/11	Parsons	<1,800	-----
GMW-59	01/10/12	Parsons	2,800	-----
GMW-59	04/20/12	Parsons	3,100	-----
GMW-59	07/10/12	Parsons	-----	-----
GMW-59	10/19/12	Parsons	3,400 HD	-----
GMW-59	01/15/13	Parsons	2,400	1,500 b
GMW-59	04/12/13	Parsons	2,500 HD	8,200
GMW-59	10/09/13	Parsons	1,400	3,100
GMW-59	04/18/14	Parsons	5,600	7,700
GMW-59	11/03/14	SGI	1,500	2,000
GMW-59	04/29/15	SGI	910	1,600
GMW-59	10/26/15	SGI	3,000	2,600
GMW-59	04/14/16	SGI	640	3,300
GMW-59	10/11/16	SGI	470	1,800
GMW-59	04/21/17	SGI	400	1,300
GMW-59	10/09/17	SGI	210	960
GMW-59	04/23/18	SGI	<100	770
GMW-59	11/09/18	SGI	<100	100
GMW-59	04/18/19	SGI	<100	340
GMW-59	10/30/19	SGI	<100	480
GMW-59	05/08/20	SGI	<100	150
GMW-59	10/22/20	SGI	<100	260
GMW-59	05/10/21	SGI/Apex	<100	450
GMW-59	11/04/21	SGI/Apex	<100	660
GMW-59	05/12/22	SGI/Apex	<100	180
GMW-59	11/03/22	SGI/Apex	<100	<100
GMW-59	05/02/23	SGI/Apex	<100	290
GMW-60	07/21/04	BT for Parsons	15,000	---
GMW-60	11/03/04	BT for Parsons	12,000	---
GMW-60	03/02/05	BT for Parsons	8,300	---
GMW-60	05/05/05	BT for Parsons	9,400	---
GMW-60	08/04/05	BT for Parsons	6,200	---
GMW-60	11/05/05	BT for Parsons	7,200	---
GMW-60	03/08/06	BT for Parsons	5,900	---
GMW-60	05/03/06	BT for Parsons	3,900	---
GMW-60	07/28/06	BT for Parsons	4,600	---
GMW-60	12/05/06	BT for Parsons	4,100	---
GMW-60	03/23/07	BT for Parsons	3,500	---

**TABLE C3
HISTORICAL ANALYTICAL RESULTS FOR TPH IN GROUNDWATER
NOVEMBER 1996 THROUGH NOVEMBER 2021**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Sample Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)
Uppermost Aquifer				
GMW-60	05/02/07	BT for Parsons	2,800	---
GMW-60	08/31/07	BT for Parsons	2,000	---
GMW-60	11/13/07	BT for Parsons	1,500	---
GMW-60	02/07/08	BT for Parsons	1,700	---
GMW-60	04/16/08	BT for Parsons	1,400	---
GMW-60	07/29/08	BT for Parsons	2,000	---
GMW-60	10/15/08	BT for Parsons	1,400	-----
GMW-60	02/12/09	BT for Parsons	1,600	-----
GMW-60	04/20/09	BT for Parsons	3,500	-----
GMW-60	07/20/09	Blaine Tech for AMEC GMX	3,200	-----
GMW-60	10/19/09	BT for Parsons	2,600	-----
GMW-60	01/11/10	BT for Parsons	-----	-----
GMW-60	04/13/10	BT for Parsons	1,900	-----
GMW-60	10/06/10	BT for Parsons	560	-----
GMW-60	01/11/11	BT for Parsons	3,200	-----
GMW-60	04/15/11	BT for Parsons	2,100	-----
GMW-60	07/12/11	Parsons	2,200	-----
GMW-60	10/11/11	Parsons	2,300	-----
GMW-60	01/10/12	Parsons	2,100	-----
GMW-60	04/20/12	Parsons	1,200	-----
GMW-60	07/10/12	Parsons	-----	-----
GMW-60	10/17/12	Parsons	630 b	-----
GMW-60	01/15/13	Parsons	610	460 b
GMW-60	04/11/13	Parsons	1,000 b	3,200 b
GMW-60	10/09/13	Parsons	920	2,300
GMW-60	04/17/14	Parsons	650	2,700
GMW-60	10/30/14	SGI	470	1,500
GMW-60	10/30/14	SGI	500	1,800
GMW-60	04/28/15	SGI	330	2,000
GMW-60	10/26/15	SGI	<100	870
GMW-60	04/13/16	SGI	110	100
GMW-60	10/07/16	SGI	<100	870
GMW-60	04/20/17	SGI	220	1,200
GMW-60	10/09/17	SGI	<100	430
GMW-60	04/17/18	SGI	<100	210
GMW-60	11/09/18	SGI	<100	<100
GMW-60	04/16/19	SGI	<100	260
GMW-60	10/30/19	SGI	<100	<100
GMW-60	05/05/20	SGI	<100	<100
GMW-60	10/21/20	SGI	<100	<100
GMW-60	05/05/21	SGI/Apex	<100	<100
GMW-60	11/03/21	SGI/Apex	<100	<100
GMW-60	05/11/22	SGI/Apex	<100	<100
GMW-60	11/01/22	SGI/Apex	<100	<100
GMW-60	05/02/23	SGI/Apex	<100	<100
GMW-61	07/21/04	BT for Parsons	19,000	-----
GMW-61	11/03/04	BT for Parsons	23,000	-----
GMW-61	03/02/05	BT for Parsons	20,000	-----
GMW-61	05/05/05	BT for Parsons	11,000	-----
GMW-61	08/04/05	BT for Parsons	11,000	-----
GMW-61	11/05/05	BT for Parsons	16,000	-----
GMW-61	03/08/06	BT for Parsons	11,000	-----
GMW-61	05/03/06	BT for Parsons	9,600	-----
GMW-61	07/28/06	BT for Parsons	7,200	-----
GMW-61	12/05/06	BT for Parsons	7,900	-----
GMW-61	03/23/07	BT for Parsons	7,500	-----
GMW-61	05/02/07	BT for Parsons	11,000	-----
GMW-61	08/31/07	BT for Parsons	9,200	-----

**TABLE C3
HISTORICAL ANALYTICAL RESULTS FOR TPH IN GROUNDWATER
NOVEMBER 1996 THROUGH NOVEMBER 2021**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Sample Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)
Uppermost Aquifer				
GMW-61	11/13/07	BT for Parsons	2,300	-----
GMW-61	02/07/08	BT for Parsons	2,600	-----
GMW-61	04/16/08	BT for Parsons	2,000	-----
GMW-61	07/29/08	BT for Parsons	1,500	-----
GMW-61	10/15/08	BT for Parsons	1,300	-----
GMW-61	02/12/09	BT for Parsons	1,100	-----
GMW-61	04/20/09	BT for Parsons	1,100	-----
GMW-61	07/20/09	Blaine Tech for AMEC GMX	760	-----
GMW-61	10/19/09	BT for Parsons	620	-----
GMW-61	01/11/10	BT for Parsons	-----	-----
GMW-61	04/15/10	BT for Parsons	740	-----
GMW-61	10/06/10	BT for Parsons	1,200	-----
GMW-61	01/10/11	BT for Parsons	800	-----
GMW-61	04/14/11	BT for Parsons	790	-----
GMW-61	07/12/11	Parsons	230	-----
GMW-61	10/11/11	Parsons	140	-----
GMW-61	01/10/12	Parsons	210	-----
GMW-61	04/19/12	Parsons	190	-----
GMW-61	07/10/12	Parsons	-----	-----
GMW-61	10/19/12	Parsons	1500 b	-----
GMW-61	01/15/13	Parsons	130	140 b
GMW-61	04/11/13	Parsons	<100	340 b
GMW-61	10/08/13	Parsons	130	390
GMW-61	04/17/14	Parsons	220	190
GMW-61	10/29/14	SGI	120	200
GMW-61	04/28/15	SGI	130	260
GMW-61	04/14/16	SGI	<100	330
GMW-61	10/07/16	SGI	<100	390
GMW-61	04/20/17	SGI	140	1,200
GMW-61	10/09/17	SGI	<100	1,000
GMW-61	04/23/18	SGI	<100	440
GMW-61	11/09/18	SGI	<100	610
GMW-61	04/18/19	SGI	<100	210
GMW-61	11/06/19	SGI	<100	340
GMW-61	05/08/20	SGI	<100	<100
GMW-61	10/21/20	SGI	<100	100
GMW-61	05/05/21	SGI/Apex	<100	21,000
GMW-61	11/09/21	SGI/Apex	<100	3,700
GMW-61	05/19/22	SGI/Apex	<100	<100
GMW-61	11/01/22	SGI/Apex	<100	1,400
GMW-61	05/08/23	SGI/Apex	<100	<100
GMW-62	11/14/07	BT for Parsons	4,200	-----
GMW-62	02/07/08	BT for Parsons	4,100	-----
GMW-62	04/17/08	BT for Parsons	1,000	-----
GMW-62	07/29/08	BT for Parsons	2,400	-----
GMW-62	10/15/08	BT for Parsons	2,800	-----
GMW-62	02/12/09	BT for Parsons	3,600	-----
GMW-62	04/23/09	BT for Parsons	1,500	-----
GMW-62	07/21/09	Blaine Tech for AMEC GMX	1,800	-----
GMW-62	10/21/09	BT for Parsons	2,200	-----
GMW-62	01/12/10	BT for Parsons	-----	-----
GMW-62	04/14/10	BT for Parsons	2,400	-----
GMW-62	10/05/10	BT for Parsons	6,700	-----
GMW-62	11/05/18	SGI	8,400	2,600
GMW-62	04/15/19	SGI	17,000	3,100
GMW-62	10/28/19	SGI	1,500	7,800
DUP-1 (GMW-62)	10/28/19	SGI	2,100	12,000
GMW-62	05/04/20	SGI	2,200	130,000

**TABLE C3
HISTORICAL ANALYTICAL RESULTS FOR TPH IN GROUNDWATER
NOVEMBER 1996 THROUGH NOVEMBER 2021**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Sample Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)
Uppermost Aquifer				
GMW-62	10/19/20	SGI	1,600	1,000
GMW-62	05/03/21	SGI/Apex	1,000	6,200
GMW-62	11/01/21	SGI/Apex	1,700	8,600
GMW-62	05/09/22	SGI/Apex	510	760
GMW-62	10/31/22	SGI/Apex	4,300	64,000
GMW-62	05/01/23	SGI/Apex	810	2,400
GMW-67	07/21/15	SGI	550	<100
GMW-67	10/21/15	SGI	900	140
GMW-67	10/21/15	SGI	970	120
GMW-67	04/13/16	SGI	310	<100
GMW-67	10/03/16	SGI	<100	<100
GMW-67	04/17/17	SGI	<100	<100
GMW-67	10/02/17	SGI	<100	520
GMW-67	04/16/18	SGI	<100	<100
GMW-67	11/05/18	SGI	<100	<100
GMW-67	04/15/19	SGI	<100	230
GMW-67	10/28/19	SGI	150	<100
GMW-67	05/04/20	SGI	270	110
GMW-67	10/19/20	SGI	110	<100
GMW-67	05/03/21	SGI/Apex	<100	<100
GMW-67	05/09/22	SGI/Apex	110	<100
GMW-67	10/31/22	SGI/Apex	<100	<100
GMW-67	05/01/23	SGI/Apex	<100	320
GMW-68	07/22/15	SGI	27,000	100
GMW-68	10/21/15	SGI	17,000	810
GMW-68	04/11/16	SGI	15,000	810
GMW-68	05/09/22	SGI/Apex	5,600	1,700
GMW-68	10/31/22	SGI/Apex	1,900	2,300
GMW-68	05/01/23	SGI/Apex	2,600	2,700
GMW-69	07/21/15	SGI	10,000	<100
GMW-69	10/21/15	SGI	2,900	330
GMW-69	04/11/16	SGI	2,400	350
GMW-69	10/03/16	SGI	1,600	210
GMW-69	04/17/17	SGI	740	150
GMW-69	10/02/17	SGI	2,100	380
GMW-69	10/25/17	SGI	----	830
GMW-69	04/16/18	SGI	3,600	530
GMW-69	11/05/18	SGI	1,300	720
GMW-69	04/15/19	SGI	130	230
GMW-69	10/28/19	SGI	710	180
GMW-69	05/04/20	SGI	1,300	490
GMW-69	10/19/20	SGI	930	300
GMW-69	05/03/21	SGI/Apex	530	280
GMW-69	11/01/21	SGI/Apex	770	340
GMW-69	05/09/22	SGI/Apex	170	110
GMW-69	10/31/22	SGI/Apex	<100	<100
DUP-1 (GMW-69)	10/31/22	SGI/Apex	<100	<100
GMW-69	05/01/23	SGI/Apex	<100	200
DUP (GMW-69)	05/01/23	SGI/Apex	<100	230

**TABLE C3
HISTORICAL ANALYTICAL RESULTS FOR TPH IN GROUNDWATER
NOVEMBER 1996 THROUGH NOVEMBER 2021**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Sample Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)
Uppermost Aquifer				
GW-14(6")	05/03/07	BT for Parsons	----	----
GW-14(6")	10/16/08	BT for Parsons	820	----
GW-14(6")	04/24/09	BT for Parsons	690	----
GW-14(6")	04/15/11	BT for Parsons	----	----
GW-14(6")	04/22/11	BT for Parsons	----	----
GW-14(6")	04/20/12	Parsons	1800 b	----
GW-14(6")	07/10/12	Parsons	----	----
GW-14(6")	04/12/13	Parsons	1800 b	4,800
GW-14(6")	10/09/13	Parsons	1,600	3,400
GW-14(6")	04/17/14	Parsons	2,200	7,700
GW-14(6")	10/31/14	SGI	1,700	3,200
GW-14R	10/26/20	SGI	1,400	8,100
GW-14R	11/08/21	SGI/Apex	140	1,800
GW-14R	05/26/22	SGI/Apex	<100	300
GW-14R	11/07/22	SGI/Apex	<100	2,500
GW-14R	05/09/23	SGI/Apex	<100	35,000
GW-15(6")	05/03/07	BT for Parsons	8,500	---
GW-15(6")	11/03/14	SGI	32,000	11,000
GW-15(6")	04/21/15	SGI	7,700	2,100
GW-15(6")	10/26/15	SGI	7,500	38,000
GW-15(6")	10/26/15	SGI	7,100	9,700
GW-15(6")	10/11/16	SGI	8,700	24,000
GW-15(6")	10/09/17	SGI	990	610
GW-15(6")	04/23/18	SGI	640	360
GW-15(6")	11/15/18	SGI	<100	<100
GW-15(6")	04/18/19	SGI	190	350
GW-15(6")	11/06/19	SGI	<100	140
GW-15(6")	05/07/20	SGI	<100	<100
GW-15(6")	10/21/20	SGI	<100	8,000
GW-15(6")	05/10/21	SGI/Apex	<100	120
GW-15(6")	11/04/21	SGI/Apex	<100	<100
GW-15(6")	05/11/22	SGI/Apex	<100	160
GW-15(6")	11/03/22	SGI/Apex	<100	<100
GW-15(6")	05/02/23	SGI/Apex	<100	<100
GW-16(6")	10/23/09	BT for Parsons	<100	---
GW-16(6")	01/13/10	BT for Parsons	<100	---
GW-16(6")	04/19/10	BT for Parsons	----	---
GW-16(6")	10/08/10	BT for Parsons	<100	---
GW-16(6")	04/12/11	BT for Parsons	<100	---
GW-16(6")	10/09/13	Parsons	<100	1,300 HD
GW-16(6")	04/17/14	Parsons	<100	<98
GW-16(6")	11/03/14	SGI	2,500	250
GW-16(6")	11/03/14	SGI	2,300	290
GW-16(6")	04/21/15	SGI	<100	<100
GW-16(6")	10/21/15	SGI	100	<100
GW-16(6")	04/13/16	SGI	<100	<100
GW-16(6")	10/04/16	SGI	<100	<100
GW-16(6")	04/18/17	SGI	<100	<100
GW-16(6")	10/03/17	SGI	<100	<100
GW-16(6")	04/17/18	SGI	<100	140
GW-16(6")	11/09/18	SGI	<100	<100
GW-16(6")	04/16/19	SGI	<100	<100
GW-16(6")	10/30/19	SGI	<100	<100
GW-16(6")	05/05/20	SGI	<100	<100

**TABLE C3
HISTORICAL ANALYTICAL RESULTS FOR TPH IN GROUNDWATER
NOVEMBER 1996 THROUGH NOVEMBER 2021**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Sample Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)
Uppermost Aquifer				
GW-16(6")	10/21/20	SGI	<100	110
GW-16(6")	05/05/21	SGI/Apex	<100	160
GW-16(6")	11/04/21	SGI/Apex	<100	<100
GW-16(6")	05/11/22	SGI/Apex	<100	230
GW-16(6")	11/08/22	SGI/Apex	<100	180
GW-16(6")	05/04/23	SGI/Apex	<100	880
MW-9	11/26/96	Terra Services	----	----
MW-9	07/17/97	Terra Services	1,400	2,900
MW-9	01/08/98	Terra Services	1,100	570
MW-9	05/26/98	Terra Services	4,700	----
MW-9	11/18/99	Secor	1,800	----
MW-9	05/19/00	Secor	1,300	----
MW-9	11/05/04	Secor	2,500	----
MW-9	05/06/05	Secor	780	----
MW-9	11/01/05	Secor	1,700	----
MW-9	05/04/06	Secor	1,000	----
MW-9	12/08/06	Secor	1,400	----
MW-9	05/04/07	Secor	1,700	----
MW-9	04/18/08	Secor	2,500	----
MW-9	10/14/08	Stantec	1,600	----
MW-9	04/23/09	Blaine Tech for AMEC GMX	1,600	----
MW-9	05/27/10	Blaine Tech	1,600	----
MW-9	10/07/10	Blaine Tech	2,400	----
MW-9	04/14/11	Blaine Tech	1,400	----
MW-9	10/12/11	CH2M Hill	1,200	----
MW-9	04/20/12	CH2M Hill	2,200	4,500
MW-9	10/17/12	CHHL	1,200	2,500
MW-9	04/11/13	CHHL	870	4,400
MW-9	10/10/13	CHHL	1,200	2,100
MW-9	04/17/14	CHHL	1,100	2,500
MW-9	10/30/14	BT for CH2MHill	<500	2,600
MW-9	04/23/15	BT for CH2MHill	660	2,900
MW-9	10/26/15	BT for CH2MHill	420	1,600
MW-9	04/14/16	BT for CH2MHill	260	1,100
MW-9	10/05/16	BT for CH2MHill	85	280
MW-9	04/19/17	BT for CH2MHill	99	600
MW-9	10/05/17	BT for CH2MHill	<100	340
MW-9	04/19/18	BT for Jacobs	66	250
MW-9	11/09/18	BT for Jacobs	<50	340
MW-9	04/18/19	BT for Jacobs	<100	130
MW-9	10/30/19	BT for Jacobs	<50	280
MW-9	05/08/20	BT for Jacobs	<50	320
MW-9	11/06/20	BT for Jacobs	<100	360
MW-9	05/05/21	BT for Jacobs	<50	<50
MW-9	11/02/21	BT for Jacobs	50	140
MW-9	05/12/22	BT for Jacobs	<50	55
MW-9	11/03/22	BT for Jacobs	<50	<50
MW-9	05/03/23	BT for Jacobs	<100	50
MW-13	11/22/96	GSI	1,100	<500
MW-13	07/09/97	GTI	<50	<50
MW-13	01/06/98	GTI	<500	<100
MW-13	05/20/98	BBC	<300	----
MW-13	11/05/98	GTI	<300	----
MW-13	05/26/99	GTI	<300	----
MW-13	11/18/99	IT Corporation	<300	----
MW-13	05/17/00	IT Corporation	<300	----
MW-13	11/29/00	IT Corporation	<300	----

**TABLE C3
HISTORICAL ANALYTICAL RESULTS FOR TPH IN GROUNDWATER
NOVEMBER 1996 THROUGH NOVEMBER 2021**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Sample Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)
Uppermost Aquifer				
MW-13	03/30/01	IT Corporation	----	----
MW-13	05/09/01	IT Corporation	<300	----
MW-13	11/07/01	IT Corporation	<300	----
MW-13	04/10/02	IT Corporation	<300	----
MW-13	10/23/02	GTI	<300	----
MW-13	04/09/03	GTI	----	----
MW-13	10/08/03	BT for Parsons	----	----
MW-13	04/21/04	BT for Parsons	----	----
MW-13	11/03/04	BT for Parsons	----	----
MW-13	05/05/05	BT for Parsons	----	----
MW-13	11/05/05	BT for Parsons	----	----
MW-13	05/03/06	BT for Parsons	----	----
MW-13	12/05/06	BT for Parsons	----	----
MW-13	05/02/07	BT for Parsons	----	----
MW-13	11/13/07	BT for Parsons	<100	----
MW-13	04/16/08	BT for Parsons	----	----
MW-13	10/15/08	BT for Parsons	----	----
MW-13	04/20/09	BT for Parsons	----	----
MW-13	10/22/09	BT for Parsons	----	----
MW-13	04/19/10	BT for Parsons	----	----
MW-13	10/06/10	BT for Parsons	----	----
MW-13	04/12/11	BT for Parsons	----	----
MW-13	10/12/11	Parsons	----	----
MW-13	04/17/12	Parsons	----	----
MW-13	10/16/12	Parsons	----	----
MW-13	04/09/13	Parsons	----	140 b
MW-13	10/08/13	Parsons	<100	330
MW-13	04/15/14	Parsons	<100	97
MW-13	10/28/14	SGI	<100	100
MW-13	04/28/15	SGI	<100	<100
MW-13	10/22/15	SGI	<100	<100
MW-13	04/12/16	SGI	<100	<100
MW-13	10/04/16	SGI	<100	<100
MW-13	04/18/17	SGI	<100	<100
MW-13	10/03/17	SGI	<100	270
MW-13	04/17/18	SGI	<100	130
MW-13	11/09/18	SGI	<100	<100
MW-13	04/16/19	SGI	<100	<100
MW-13	10/29/19	SGI	<100	<100
MW-13	05/05/20	SGI	<100	150
MW-13	10/22/20	SGI	<100	100
MW-13	05/05/21	SGI/Apex	<100	230
MW-13	11/05/21	SGI/Apex	<100	<100
MW-13	05/11/22	SGI/Apex	<100	310
MW-13	11/07/22	SGI/Apex	<100	170
MW-13	05/04/23	SGI/Apex	<100	<100
MW-15	11/26/96	Terra Services	----	----
MW-15	07/14/97	Terra Services	1,000	3,500
MW-15	01/07/98	Terra Services	<500	1,500
MW-15	05/22/98	Terra Services	<300	----
MW-15	11/13/98	Alton Geoscience	<300	----
MW-15	05/07/99	Alton Geoscience	<500	<500
MW-15	11/17/99	Secor	<300	----
MW-15	05/16/00	Secor	340	----
MW-15	11/30/00	Secor	2,100	----
MW-15	05/09/01	Secor	<300	----
MW-15	11/06/01	Secor	<300	----
MW-15	04/10/02	Secor	59,000	----

**TABLE C3
HISTORICAL ANALYTICAL RESULTS FOR TPH IN GROUNDWATER
NOVEMBER 1996 THROUGH NOVEMBER 2021**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Sample Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)
Uppermost Aquifer				
MW-15	07/30/02	IT Corporation	780	-----
MW-15	12/08/06	Secor	420	-----
MW-15	05/04/07	Secor	<500	-----
MW-15	10/05/10	Blaine Tech	1,100	-----
MW-15	04/14/11	Blaine Tech	1,900	-----
MW-15	10/12/11	CH2M Hill	590	-----
MW-15	04/27/12	CH2M Hill	1,100	40,000
MW-15	10/19/12	CHHL	940	34,000
MW-15	04/12/13	CHHL	890	240,000
MW-15	10/11/13	CHHL	2,000	140,000
MW-15	10/31/14	BT for CH2MHill	590	8,300
MW-15R	04/19/17	BT for CH2MHill	<100	210
MW-15R	10/05/17	BT for CH2MHill	<50	79
MW-15R	04/19/18	BT for Jacobs	66	60
MW-15R	11/08/18	BT for Jacobs	53	52
MW-15R	04/18/19	BT for Jacobs	<50	<50
MW-15R	10/30/19	BT for Jacobs	<50	<50
MW-15R	05/11/20	BT for Jacobs	78	180
MW-15R	11/05/20	BT for Jacobs	130	220
MW-15R	05/05/21	BT for Jacobs	<50	53
MW-15R	11/02/21	BT for Jacobs	63	150
MW-15R	05/12/22	BT for Jacobs	<50	140
MW-15R	11/01/22	BT for Jacobs	<50	<50
MW-15R	05/03/23	BT for Jacobs	<50	54
MW-27	11/22/96	GSI	<50	<500
MW-27	07/10/97	GTI	420	400
MW-27	01/06/98	GTI	1,500	<100
MW-27	05/21/98	BBC	<300	-----
MW-27	11/04/98	GTI	<300	-----
MW-27	05/26/99	GTI	<300	-----
MW-27	11/18/99	IT Corporation	7,200	-----
MW-27	05/16/00	IT Corporation	<300	-----
MW-27	11/29/00	IT Corporation	<300	-----
MW-27	05/10/01	IT Corporation	<300	-----
MW-27	11/07/01	IT Corporation	<300	-----
MW-27	04/11/02	IT Corporation	<300	-----
MW-27	10/24/02	GTI	<300	-----
MW-27	04/11/03	GTI	-----	-----
MW-27	10/11/03	BT for Parsons	-----	-----
MW-27	04/22/04	BT for Parsons	-----	-----
MW-27	11/06/04	BT for Parsons	-----	-----
MW-27	05/07/05	BT for Parsons	-----	-----
MW-27	11/08/05	BT for Parsons	-----	-----
MW-27	05/05/06	BT for Parsons	-----	-----
MW-27	12/06/06	BT for Parsons	-----	-----
MW-27	05/03/07	BT for Parsons	-----	-----
MW-27	11/14/07	BT for Parsons	-----	-----
MW-27	04/18/08	BT for Parsons	-----	-----
MW-27	10/17/08	BT for Parsons	-----	-----
MW-27	04/22/09	BT for Parsons	-----	-----
MW-27	10/26/09	BT for Parsons	-----	-----
MW-27	04/13/10	BT for Parsons	-----	-----
MW-27	10/04/10	BT for Parsons	-----	-----
MW-27	04/12/11	BT for Parsons	-----	-----
MW-27	10/13/11	Parsons	-----	-----
MW-27	04/17/12	Parsons	-----	-----
MW-27	10/16/12	Parsons	-----	-----
MW-27	04/09/13	Parsons	-----	310 b

**TABLE C3
HISTORICAL ANALYTICAL RESULTS FOR TPH IN GROUNDWATER
NOVEMBER 1996 THROUGH NOVEMBER 2021**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Sample Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)
Uppermost Aquifer				
MW-27	10/08/13	Parsons	<100	130
MW-27	10/29/14	SGI	<100	140
MW-27	04/22/15	SGI	<100	160
MW-27	10/23/15	SGI	<100	130
MW-27	04/13/16	SGI	<100	160
MW-27	10/05/16	SGI	<100	220
MW-27	04/19/17	SGI	<100	130
MW-27	10/04/17	SGI	<100	260
MW-27	04/19/18	SGI	<100	350
MW-27	11/08/18	SGI	<100	150
MW-27	04/17/19	SGI	<100	300
MW-27	11/05/19	SGI	<100	130
MW-27	05/07/20	SGI	<100	<100
MW-27	10/22/20	SGI	<100	250
MW-27	05/07/21	SGI/Apex	<100	260
MW-27	11/08/21	SGI/Apex	<100	400
MW-27	05/16/22	SGI/Apex	<100	380
MW-27	11/07/22	SGI/Apex	<100	110
MW-27	05/05/23	SGI/Apex	<100	<100
MW-29	05/21/98	BBC	84,700	----
MW-29	11/05/98	GTI	28,600	----
MW-29	05/27/99	GTI	1,810	----
MW-29	11/18/99	IT Corporation	5,100	----
MW-29	05/17/00	IT Corporation	1,100	----
MW-29	11/30/00	IT Corporation	2,400	----
MW-29	05/09/01	IT Corporation	<300	----
MW-29	11/07/01	IT Corporation	1,500	----
MW-29	02/01/02	Secor	----	----
MW-29	04/11/02	IT Corporation	860	----
MW-29	04/12/13	Parsons	----	2,200
MW-29	10/08/13	Parsons	570	2,900 HD
MW-29	04/17/14	Parsons	710	3,300
MW-29	10/31/14	SGI	700	3,200
MW-29	04/29/15	SGI	370	2,900
MW-29	10/26/15	SGI	120	490
MW-29	04/14/16	SGI	<100	350
MW-29	10/07/16	SGI	<100	250
MW-29	04/20/17	SGI	<100	380
MW-29	10/04/17	SGI	<100	630
MW-29	04/18/18	SGI	<100	170
MW-29	11/06/18	SGI	<100	250
MW-29	04/19/19	SGI	<100	140
MW-29	10/31/19	SGI	<100	250
MW-29	05/07/20	SGI	<100	<100
MW-29	10/20/20	SGI	<100	<100
MW-29	05/04/21	SGI/Apex	<100	<100
MW-29	11/02/21	SGI/Apex	<100	<100
MW-29	05/10/22	SGI/Apex	<100	100
MW-29	11/03/22	SGI/Apex	<100	<100
MW-29	05/01/23	SGI/Apex	<100	180
PZ-3	04/22/04	BT for Parsons	----	----
PZ-3	04/22/09	BT for Parsons	----	----
PZ-3	04/15/10	BT for Parsons	----	----
PZ-3	10/08/10	BT for Parsons	----	----
PZ-3	04/14/11	BT for Parsons	----	----
PZ-3	10/14/11	Parsons	----	----
PZ-3	04/19/12	Parsons	----	----

**TABLE C3
HISTORICAL ANALYTICAL RESULTS FOR TPH IN GROUNDWATER
NOVEMBER 1996 THROUGH NOVEMBER 2021**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Sample Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)
Uppermost Aquifer				
PZ-3	10/19/12	Parsons	----	----
PZ-3	10/09/13	Parsons	2,100	10,000
PZ-3	04/18/14	Parsons	5,300 HD	6,900
PZ-3	11/03/14	SGI	1,300	2,700
PZ-3	04/22/15	SGI	3,000	3,600
PZ-3	10/10/17	SGI	710	1,500
PZ-3	04/20/18	SGI	690	5,300
PZ-3	11/12/18	SGI	690	4,300
PZ-3	04/19/19	SGI	<100	330
PZ-3	10/31/19	SGI	210	520
PZ-3	05/08/20	SGI	<100	490
PZ-3	10/26/20	SGI	<100	470
PZ-3	05/07/21	SGI/Apex	<100	2,700
PZ-3	11/09/21	SGI/Apex	<100	1,600
PZ-3	05/19/22	SGI/Apex	910	11,000
PZ-3	11/10/22	SGI/Apex	<100	1,200
PZ-3	05/09/23	SGI/Apex	<100	1,700
TF-9	10/10/13	Parsons	960 HD	2,200 HD
TF-9	04/18/14	Parsons	3,400 HD	2,900
TF-9	10/31/14	SGI	1,100	1,300
TF-9R	10/05/17	SGI	1,500	1,500
TF-9R	04/20/18	SGI	750	1,700
TF-9R	11/12/18	SGI	1,500	2,400
TF-9R	04/19/19	SGI	<100	120
TF-9R	10/31/19	SGI	<100	100
TF-9R	05/07/20	SGI	<100	<100
TF-9R	10/20/20	SGI	<100	250
TF-9R	05/07/21	SGI/Apex	<100	900
TF-9R	11/08/21	SGI/Apex	<100	1,300
TF-9R	05/19/22	SGI/Apex	<100	<100
TF-9R	11/02/22	SGI/Apex	<100	<100
TF-9R	05/03/23	SGI/Apex	<100	1,200
TF-14	09/18/03	BT for Parsons	----	----
TF-14	02/21/04	BT for Parsons	----	----
TF-15	05/12/20	SGI	2,000	1,600
TF-15	10/26/20	SGI	160	2,300
TF-15	05/12/21	SGI/Apex	1,100	6,600
TF-15	11/08/21	SGI/Apex	1,200	18,000
TF-15	05/26/22	SGI/Apex	780	1,900
TF-15	11/08/22	SGI/Apex	2,300	1,400
TF-15	05/09/23	SGI/Apex	940	1,500
TF-16	04/14/03	GTI	----	----
TF-16	09/18/03	BT for Parsons	----	----
TF-16	10/11/03	BT for Parsons	----	----
TF-16	02/21/04	BT for Parsons	----	----
TF-16	04/21/04	BT for Parsons	----	----
TF-16	11/04/04	BT for Parsons	----	----
TF-16	05/06/05	BT for Parsons	----	----
TF-16	11/08/05	BT for Parsons	----	----
TF-16	05/04/06	BT for Parsons	----	----
TF-16	12/08/06	BT for Parsons	----	----
TF-16	05/04/07	BT for Parsons	----	----
TF-16	11/15/07	BT for Parsons	----	----
TF-16	04/17/08	BT for Parsons	----	----
TF-16	10/16/08	BT for Parsons	----	----

**TABLE C3
HISTORICAL ANALYTICAL RESULTS FOR TPH IN GROUNDWATER
NOVEMBER 1996 THROUGH NOVEMBER 2021**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Sample Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)
Uppermost Aquifer				
TF-16	04/24/09	BT for Parsons	----	----
TF-16	10/26/09	BT for Parsons	----	----
TF-16	04/15/10	BT for Parsons	----	----
TF-16	04/15/11	BT for Parsons	----	----
TF-16	04/22/11	BT for Parsons	----	----
TF-16	04/19/12	Parsons	2,100	----
TF-16	04/11/13	Parsons	1,200 b	2,500 b
TF-16	10/08/13	Parsons	860 HD	2,300
TF-16	04/17/14	Parsons	6,000 HD	7,600
TF-16	05/12/20	Parsons	3,400	2,000
TF-16	10/26/20	SGI	170	2,100
TF-16	05/12/21	SGI/Apex	270	2,600
TF-16	11/08/21	SGI/Apex	1,300	2,500
TF-16	05/26/22	SGI/Apex	790	500
TF-16	11/10/22	SGI/Apex	1,200	1,400
TF-16	05/09/23	SGI/Apex	670	3,000
TF-17	10/09/13	Parsons	18,000	32,000
TF-17	04/17/14	Parsons	8,900	14,000
TF-17	11/03/14	SGI	2,900	7,100
TF-17R	05/12/20	SGI	5,800	11,000
TF-17R	11/23/20	SGI	5,700	3,700
TF-17R	05/10/21	SGI/Apex	8,600	5,600
TF-17R	11/09/21	SGI/Apex	1,700	18,000
TF-17R	05/26/22	SGI/Apex	2,100	5,200
TF-17R	11/10/22	SGI/Apex	1,500	2,100
TF-17R	05/08/23	SGI/Apex	100	1,500
TF-18	04/24/17	SGI	54,000	7,300
TF-18	11/07/19	SGI	5,600	9,300
TF-18	11/23/20	SGI	3,800	16,000
TF-18	05/12/21	SGI/Apex	27,000	21,000
TF-18	11/09/21	SGI/Apex	9,400	68,000
TF-18	05/26/22	SGI/Apex	450	56,000
TF-18	11/10/22	SGI/Apex	<100	3,300
TF-18	05/08/23	SGI/Apex	<100	8,400
TF-20R	10/10/17	SGI	1,300	660
TF-20R	04/24/18	SGI	900	540
TF-20R	11/15/18	SGI	700	620
TF-20R	04/22/19	SGI	540	440
TF-20R	11/06/19	SGI	810	640
TF-20R	05/11/20	SGI	410	600
TF-20R	10/28/20	SGI	170	430
TF-20R	05/10/21	SGI/Apex	<100	100
TF-20R	11/4/2021	SGI/Apex	<100	<100
TF-20R	05/10/22	SGI/Apex	<100	<100
TF-20R	11/01/22	SGI/Apex	<100	100
TF-20R	5/4/2023	SGI/Apex	<100	580
TF-21	04/10/03	GTI	----	----
TF-21	09/18/03	BT for Parsons	----	----
TF-21	10/08/03	BT for Parsons	----	----
TF-21	02/21/04	BT for Parsons	----	----
TF-21	04/21/04	BT for Parsons	----	----
TF-21	11/04/04	BT for Parsons	----	----
TF-21	05/05/05	BT for Parsons	----	----
TF-21	11/05/05	BT for Parsons	----	----
TF-21	05/03/06	BT for Parsons	----	----

**TABLE C3
HISTORICAL ANALYTICAL RESULTS FOR TPH IN GROUNDWATER
NOVEMBER 1996 THROUGH NOVEMBER 2021**

Defense Fuel Support Point Norwalk
15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Sample Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)
Uppermost Aquifer				
TF-21	12/06/06	BT for Parsons	----	----
TF-21	05/04/07	BT for Parsons	----	----
TF-21	11/16/07	BT for Parsons	----	----
TF-21	04/17/08	BT for Parsons	----	----
TF-21	10/15/08	BT for Parsons	----	----
TF-21	04/24/09	BT for Parsons	----	----
TF-21	10/26/09	BT for Parsons	----	----
TF-21	04/16/10	BT for Parsons	----	----
TF-21	04/15/11	BT for Parsons	----	----
TF-21	04/22/11	BT for Parsons	----	----
TF-21	04/20/12	Parsons	1,600	----
TF-21	04/12/13	Parsons	590 b	2,700
TF-21	10/08/13	Parsons	810 HD	2,200
TF-21	04/17/14	Parsons	1,100 HD	2,000
TF-21	10/30/14	SGI	1,500	1,700
TF-21	04/29/15	SGI	570	1,700
TF-21	10/11/16	SGI	1,300	7,800
TF-21	04/21/17	SGI	420	1,400
TF-21	10/09/17	SGI	350	1,700
TF-21	04/23/18	SGI	180	960
TF-21	11/12/18	SGI	370	1,400
TF-21	04/22/19	SGI	150	710
TF-21	10/30/19	SGI	110	310
TF-21	05/08/20	SGI	<100	110
TF-21	10/23/20	SGI	<100	110
TF-21	05/05/21	SGI/Apex	<100	290
TF-21	11/04/21	SGI/Apex	<100	160
TF-21	05/12/22	SGI/Apex	<100	790
TF-21	11/07/22	SGI/Apex	<100	660
TF-21	05/08/23	SGI/Apex	<100	640
TF-23	04/24/17	SGI	410	2,900
TF-23	04/22/19	SGI	560	4,600
TF-23	05/11/20	SGI	660	7,400
TF-23	10/26/20	SGI	550	1,900
TF-23	05/12/21	SGI/Apex	670	23,000
TF-23	11/09/21	SGI/Apex	1,100	87,000
TF-23	05/26/22	SGI/Apex	160	780
TF-23	11/07/22	SGI/Apex	1,900	110,000
TF-23	05/09/23	SGI/Apex	<100	280
TF-24	10/10/13	Parsons	<100	1,500
TF-24	04/18/14	Parsons	<100	730
TF-24	10/29/14	SGI	<100	1,900
TF-24	04/29/15	SGI	<100	1,900
TF-24	10/11/16	SGI	<100	1,100
TF-24	04/21/17	SGI	<100	1,700
TF-24	10/05/17	SGI	<100	2,500
TF-24	04/20/18	SGI	<100	2,900
TF-24	11/12/18	SGI	<100	2,800
TF-24	04/19/19	SGI	<100	2,800
TF-24	11/06/19	SGI	<100	2,600
TF-24	05/11/20	SGI	<100	360
TF-24	10/23/20	SGI	<100	4,200
TF-24	05/12/21	SGI/Apex	<100	750
TF-24	11/05/21	SGI/Apex	<100	1,400
TF-24	05/19/22	SGI/Apex	<100	1,200

TABLE C3
HISTORICAL ANALYTICAL RESULTS FOR TPH IN GROUNDWATER
NOVEMBER 1996 THROUGH NOVEMBER 2021

Defense Fuel Support Point Norwalk
 15306 Norwalk Boulevard, Norwalk, California 90650

Well ID	Sample Date	Sampled By	TPH-g (µg/L)	TPH-d (µg/L)
Uppermost Aquifer				
TF-24	11/08/22	SGI/Apex	<100	180
TF-24	05/04/23	SGI/Apex	<100	570

Notes:

Detected concentrations are shown in **bold**.

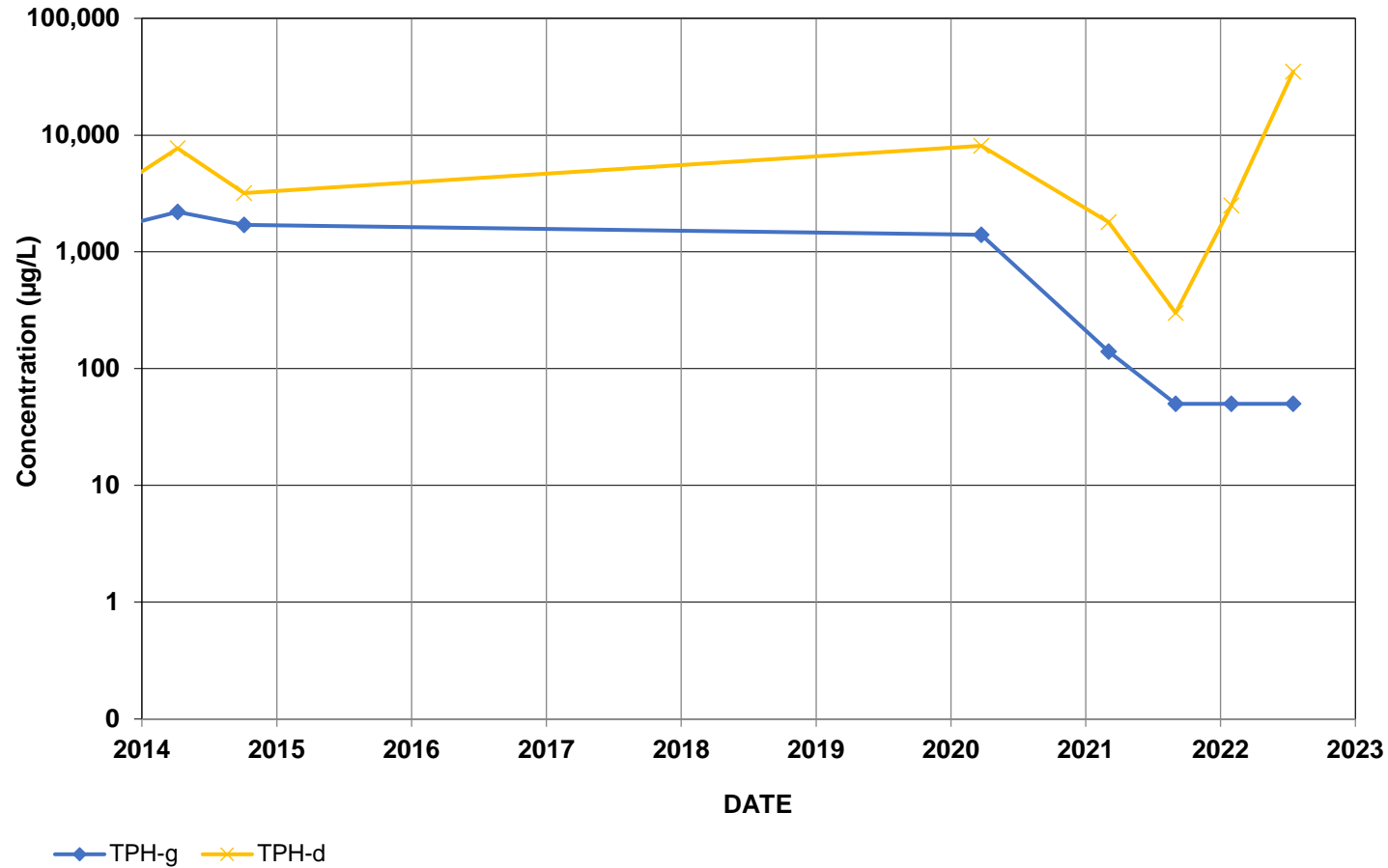
TPH = total petroleum hydrocarbons

TPH-g = total petroleum hydrocarbons as gasoline

TPH-d = total petroleum hydrocarbons as diesel

Closest Biosparge Wells: BSP-37 (24 feet), TFB-18 (35 feet)

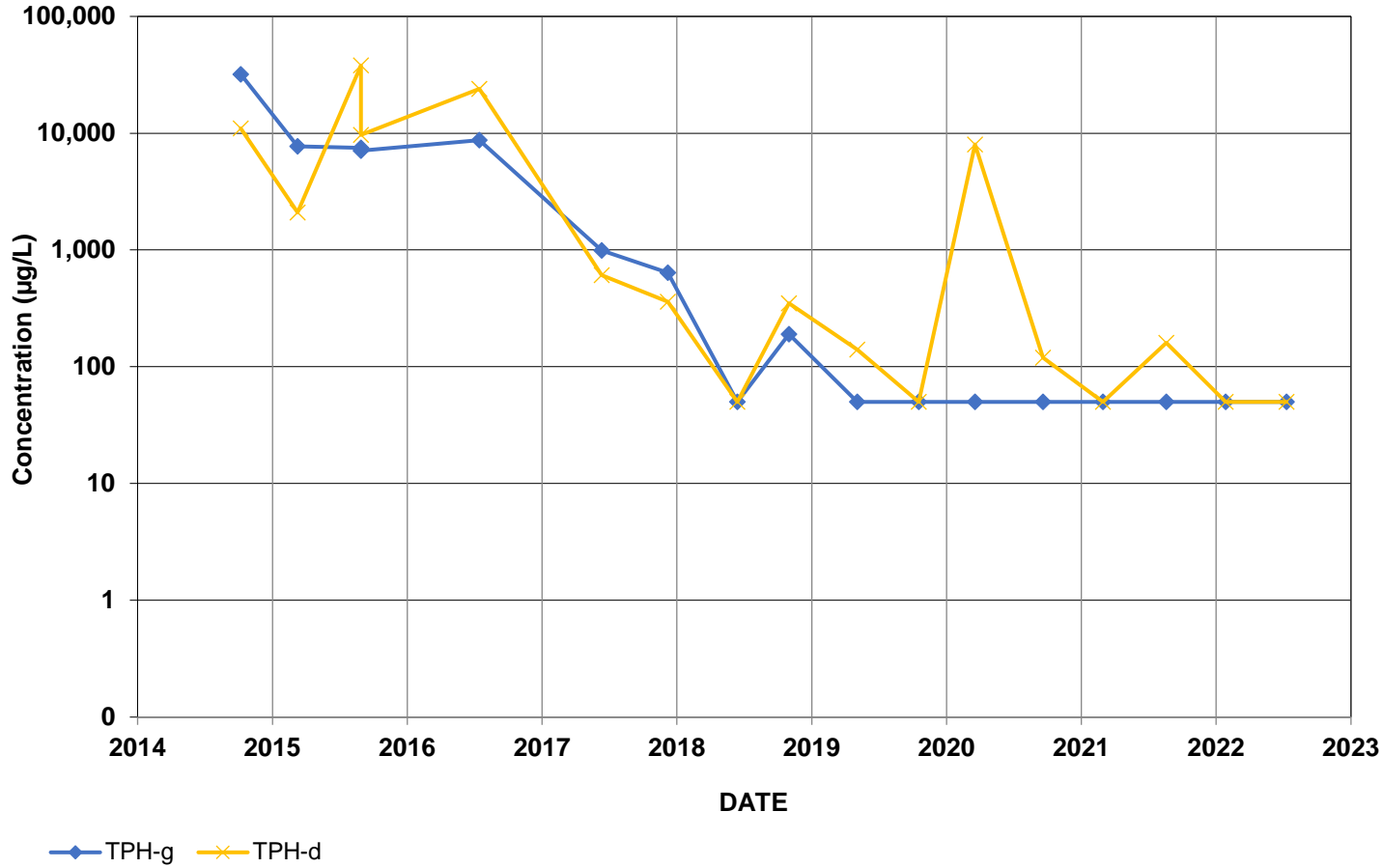
GW-14R



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: BSP-11 (14 feet)

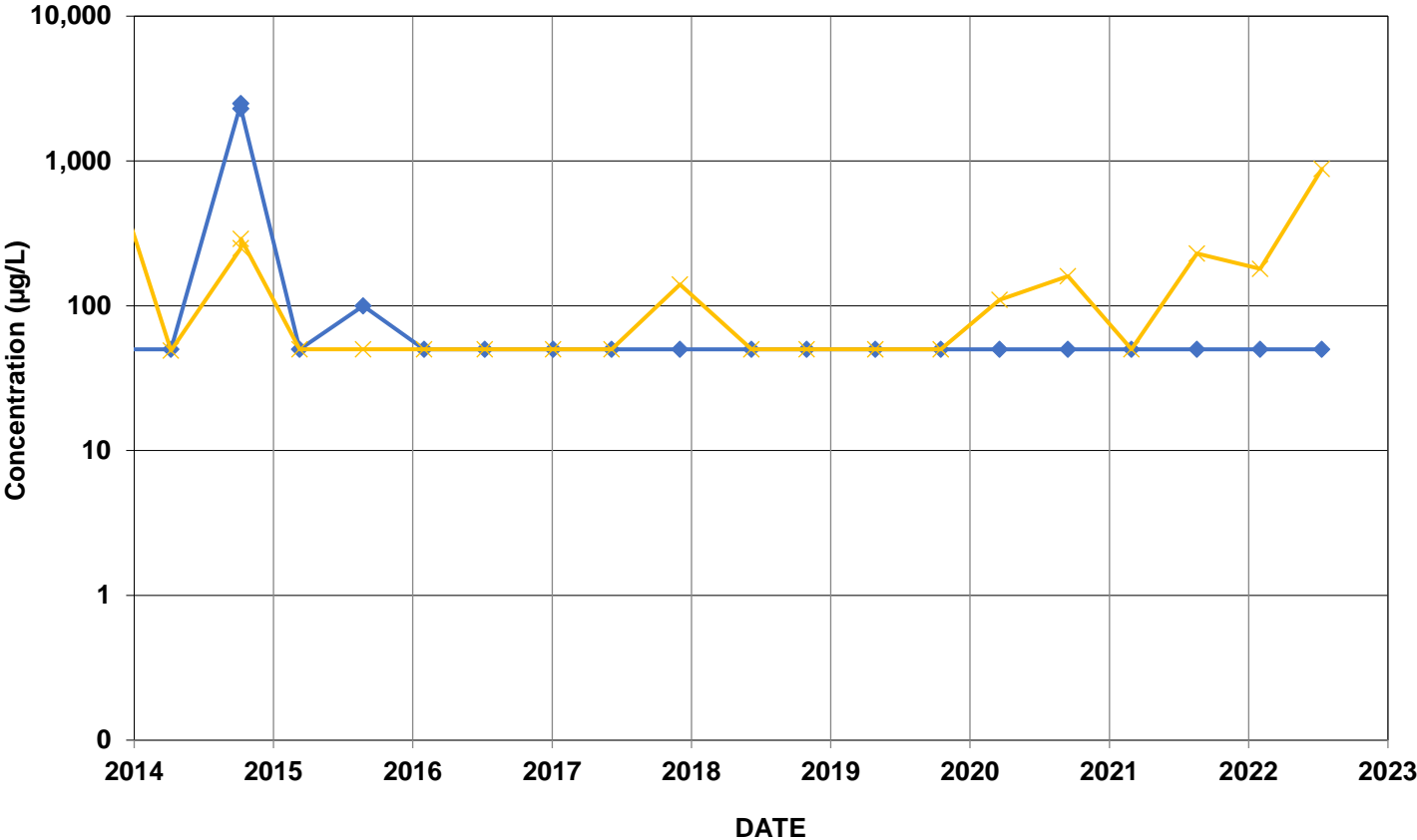
GW-15



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: RW-16 (14 feet)

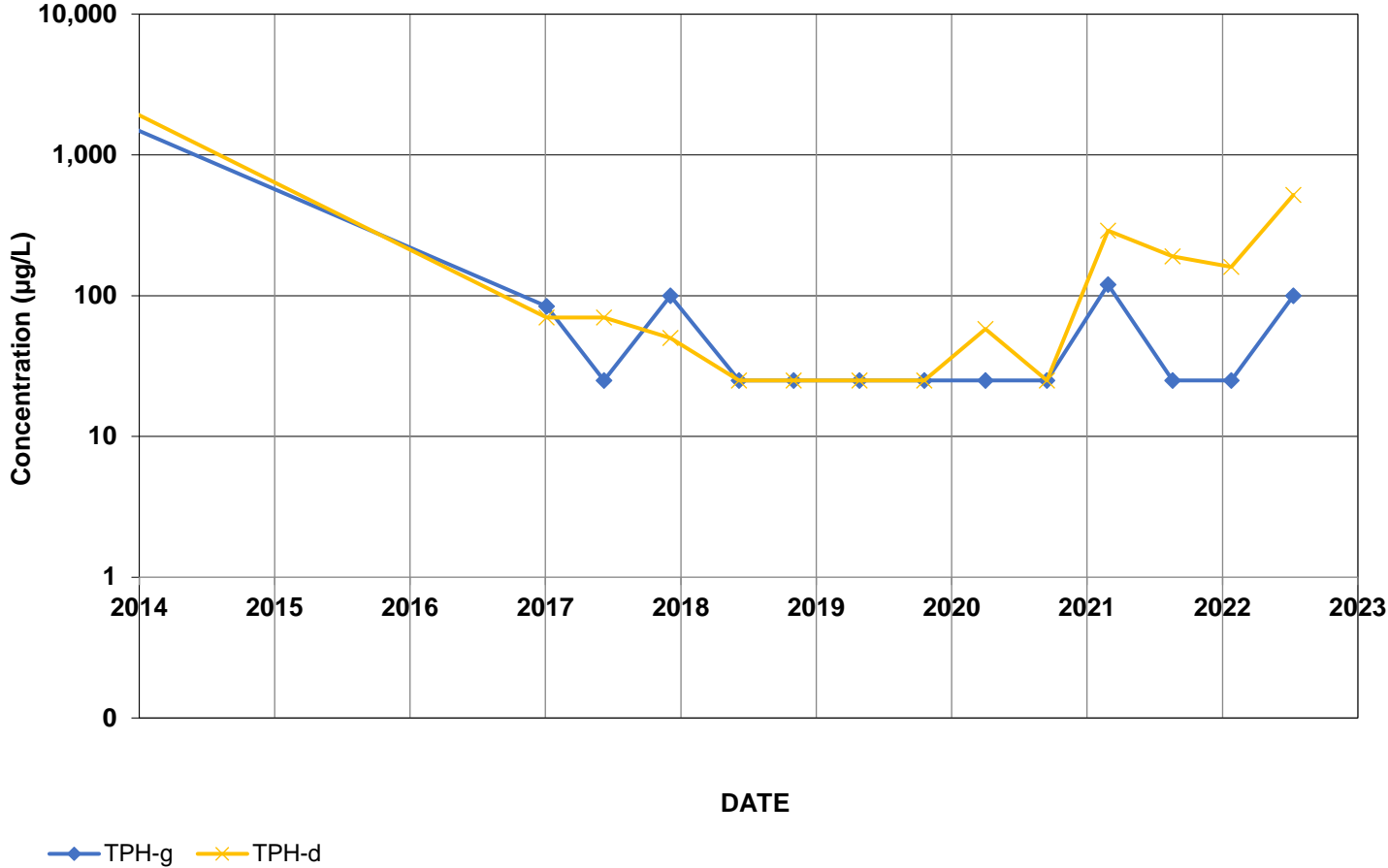
GW-16



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Wells: BSP-19 (18 feet), RW-32 (40 feet)

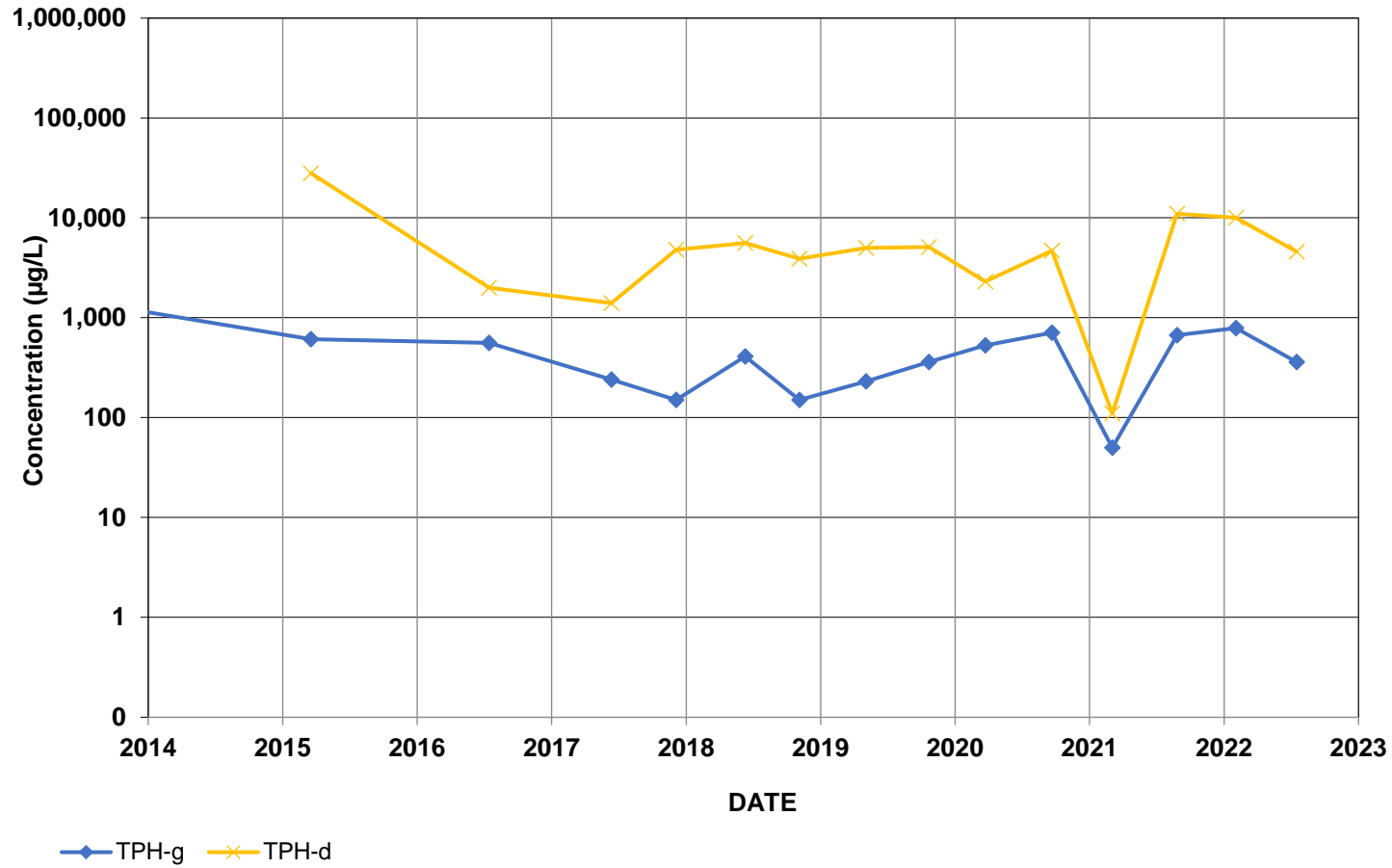
GMW-4R



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: TFB-10 (26 feet)

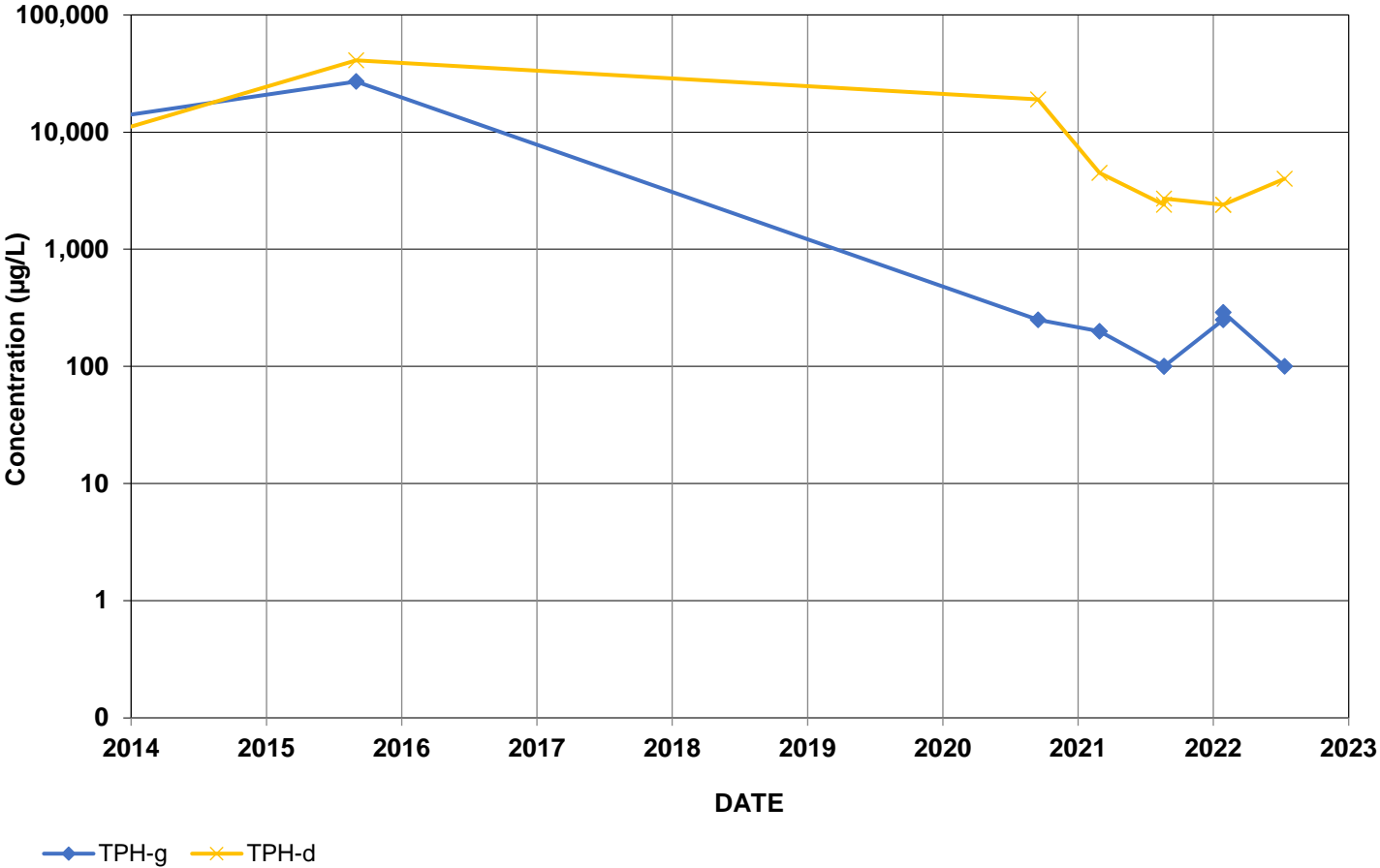
GMW-7



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: RW-39 (9 feet)

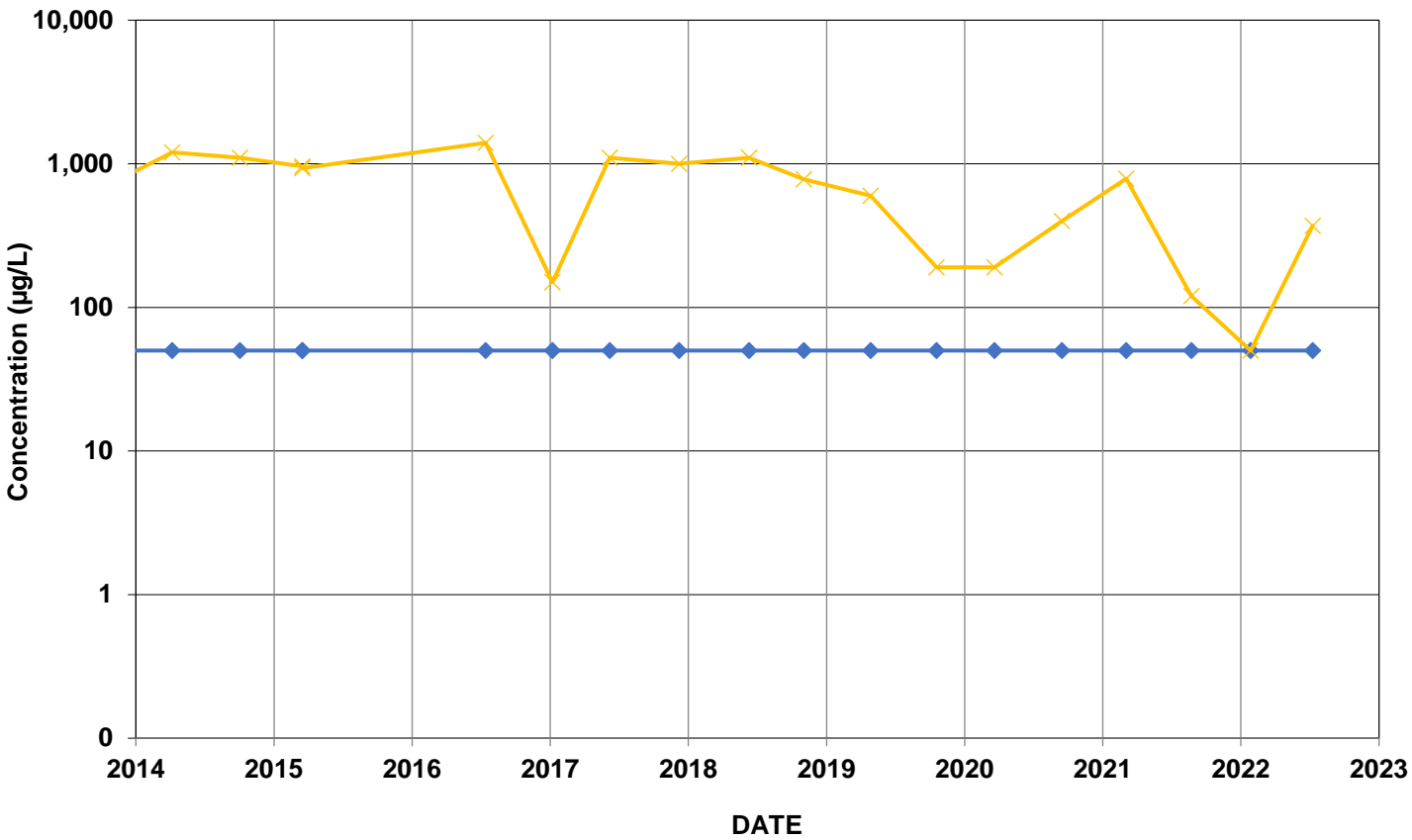
GMW-10



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Wells: BSP-38 (12 feet)

GMW-12

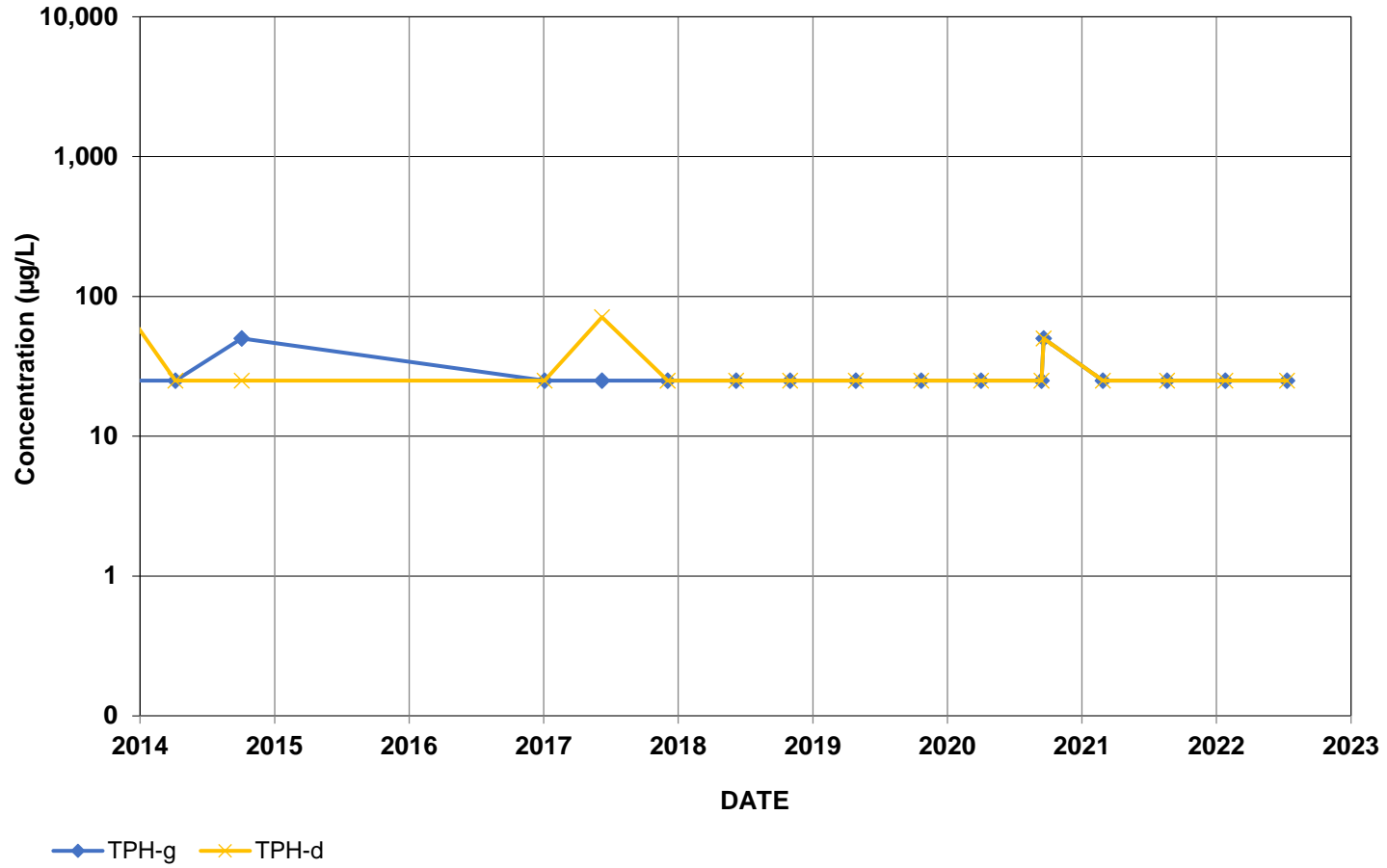


TPH-g TPH-d

Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: BSP-17 (18 feet)

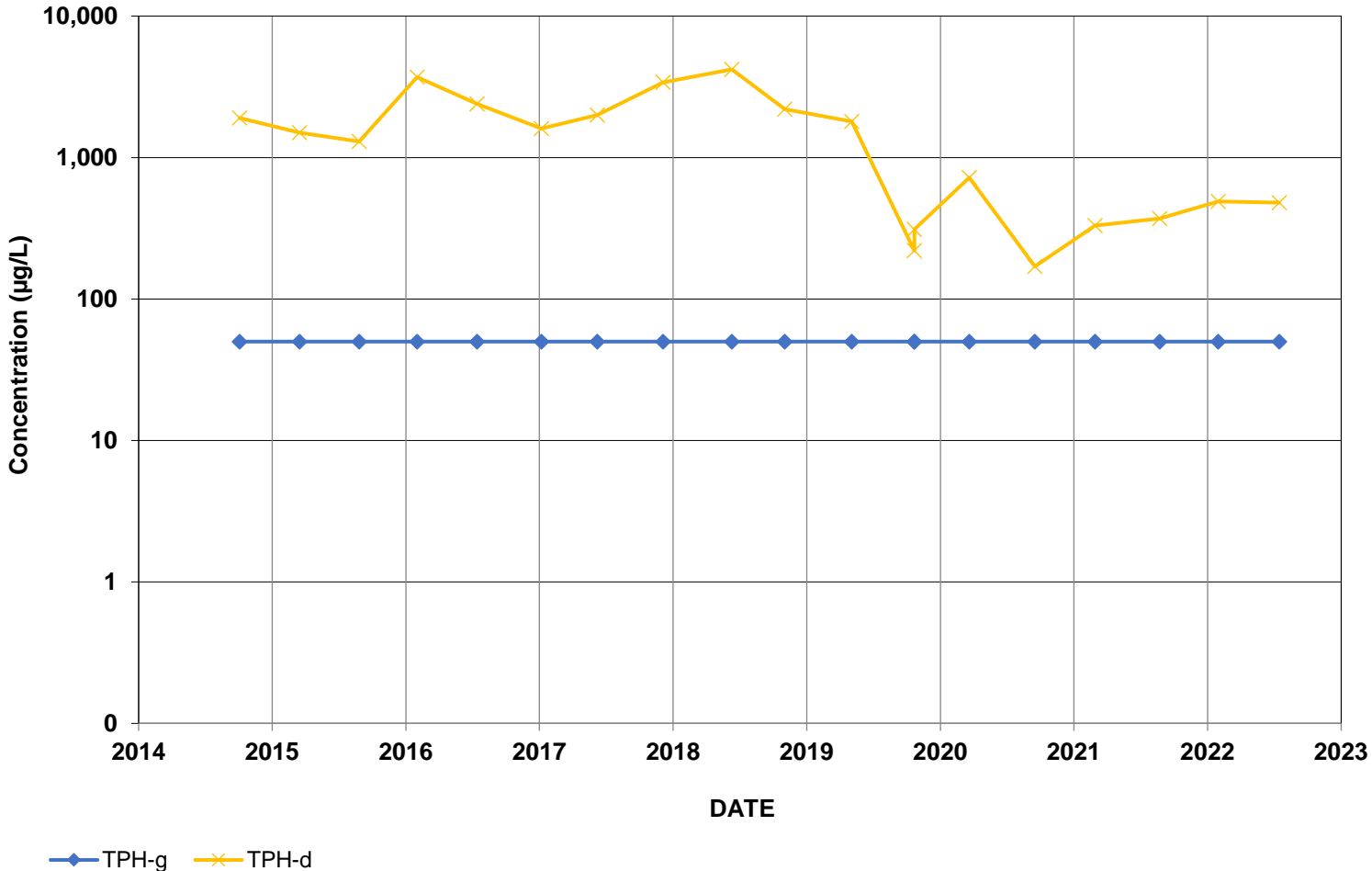
GMW-14R



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: TFB-8 (>50 feet)

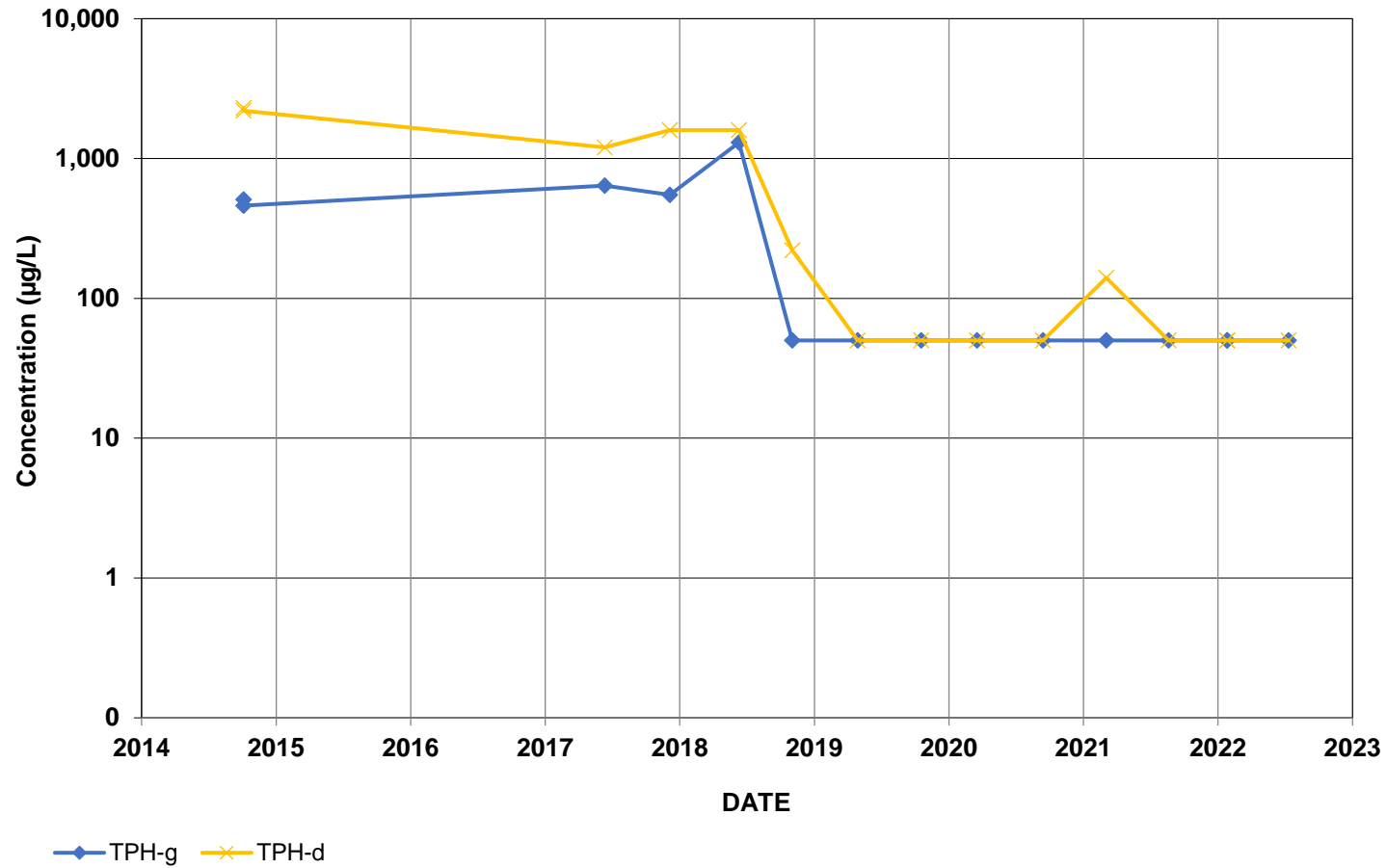
GMW-15



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: BSP-24 (52.5 feet)

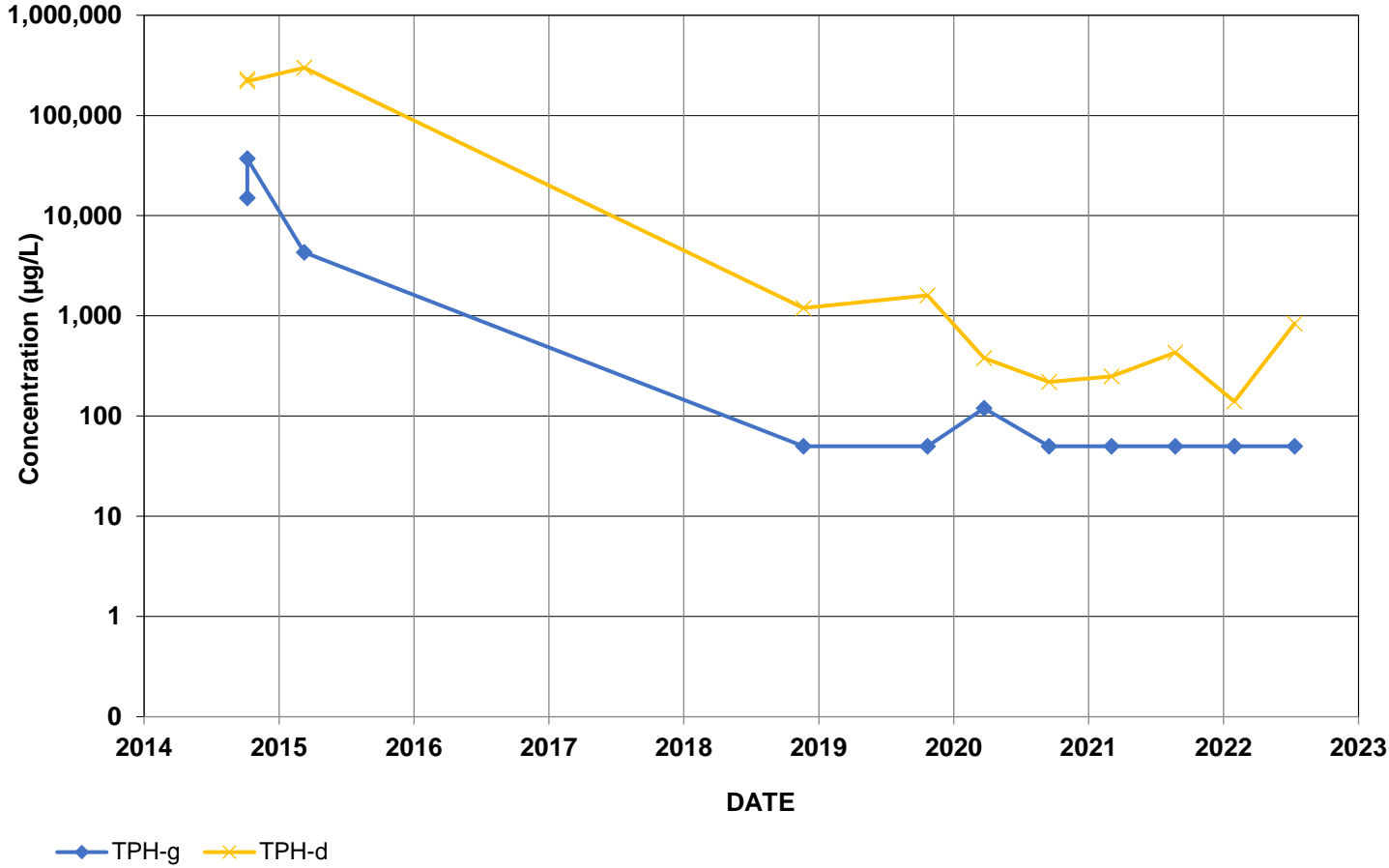
GMW-17R



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: TFB-9 (52.5 feet)

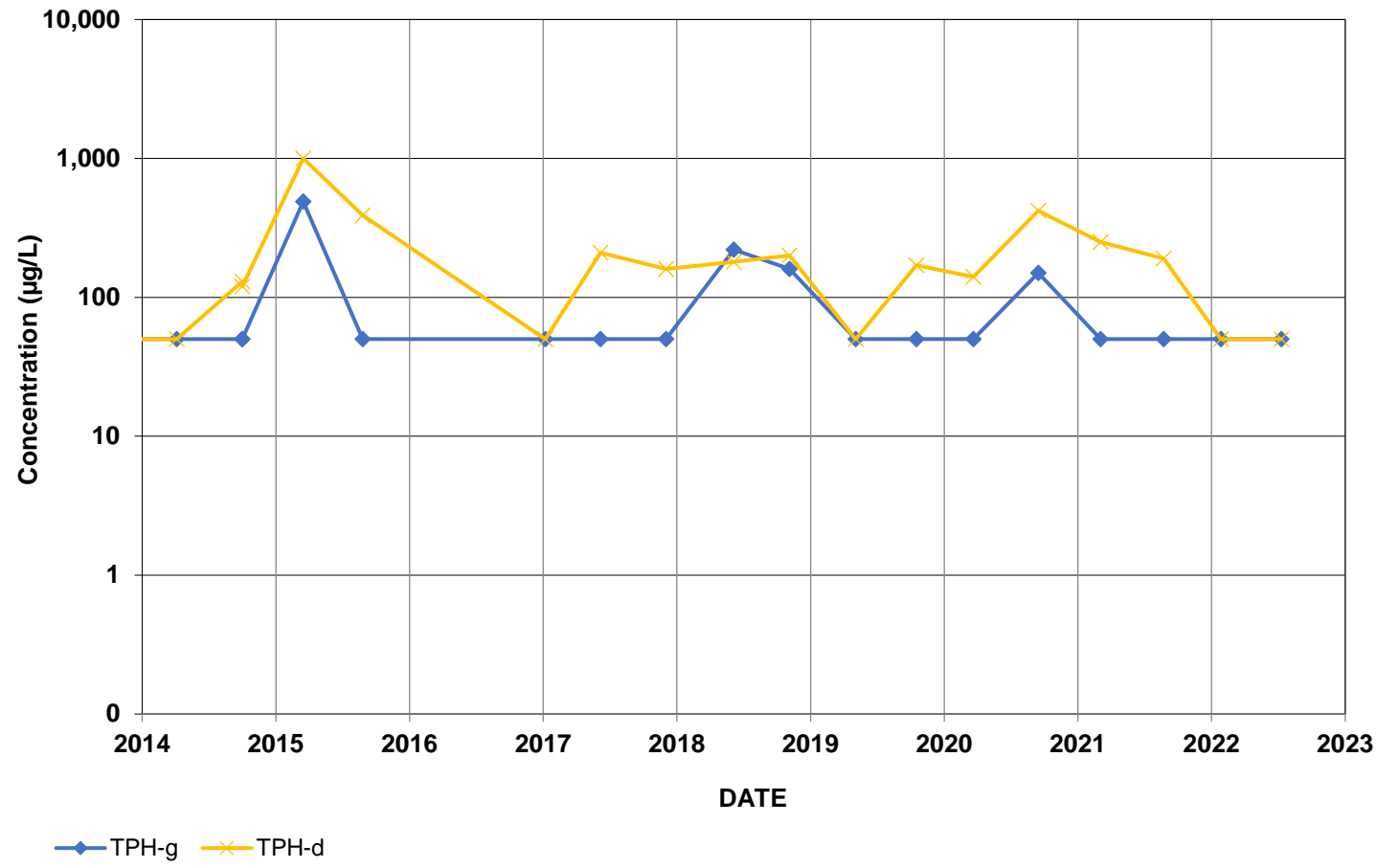
GMW-18



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Wells: BSP-36 (20 feet), TFB-14 (74 feet)

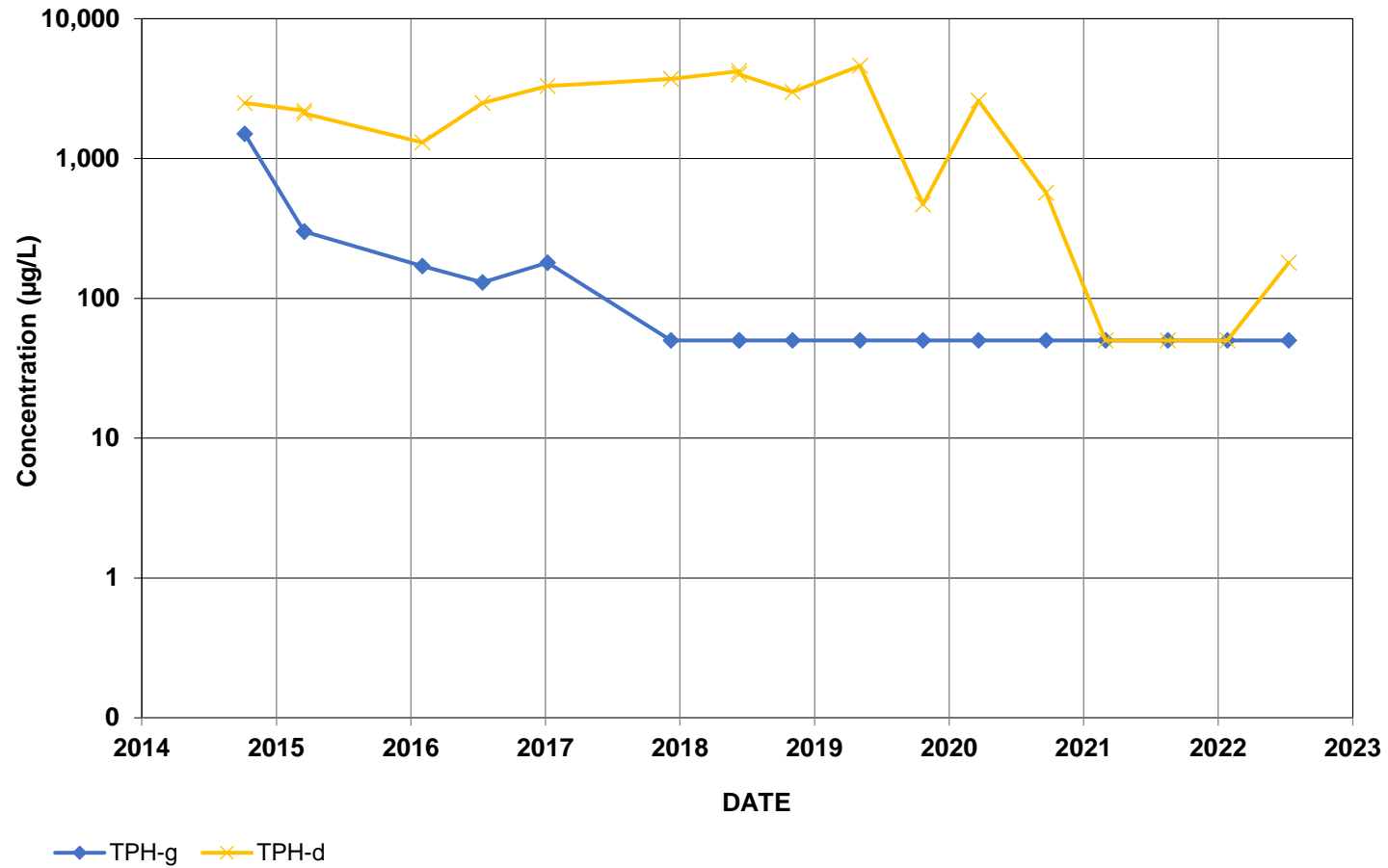
GMW-19



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: TFB-5 (18 feet)

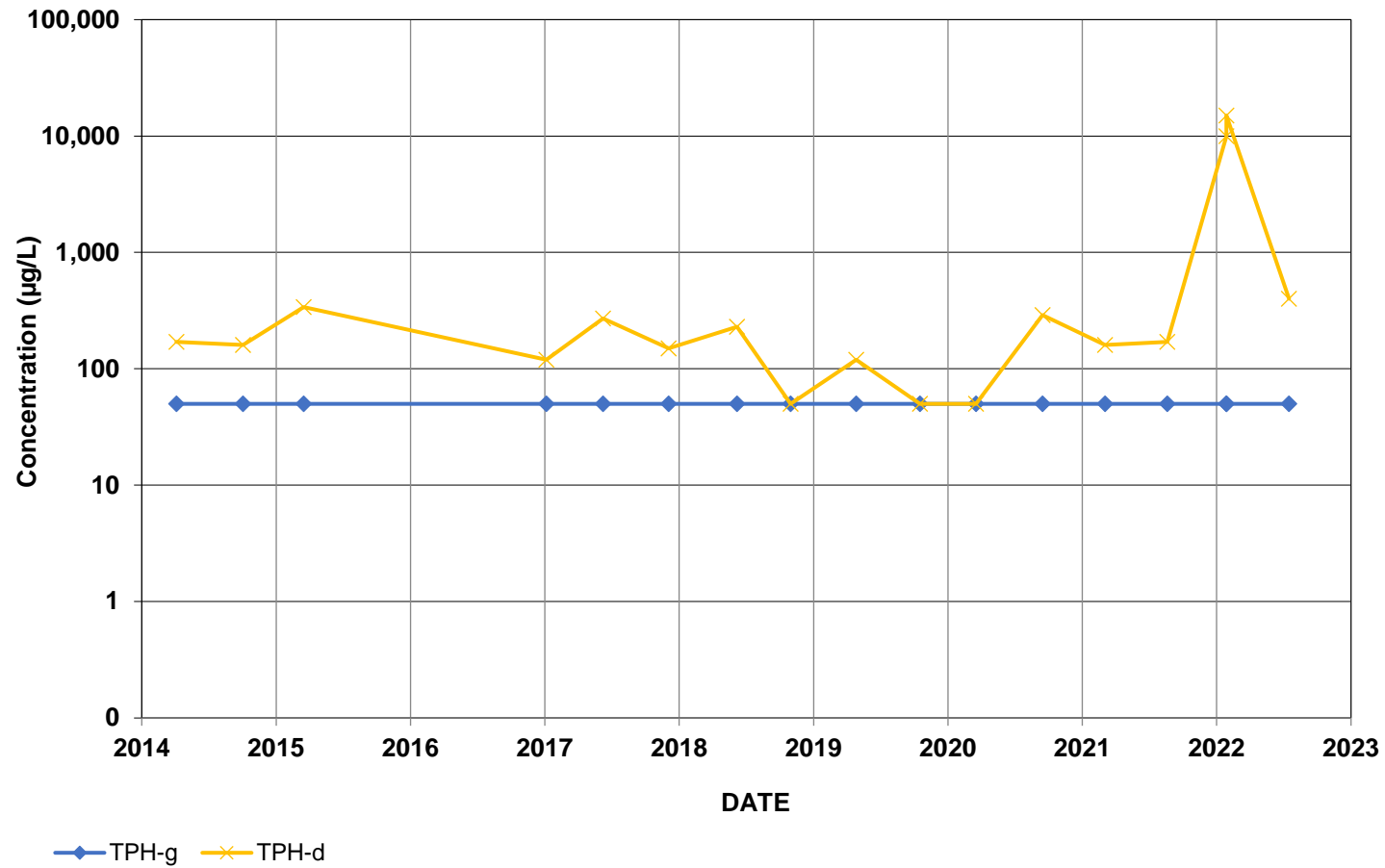
GMW-21



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: BSP-40 (13 feet)

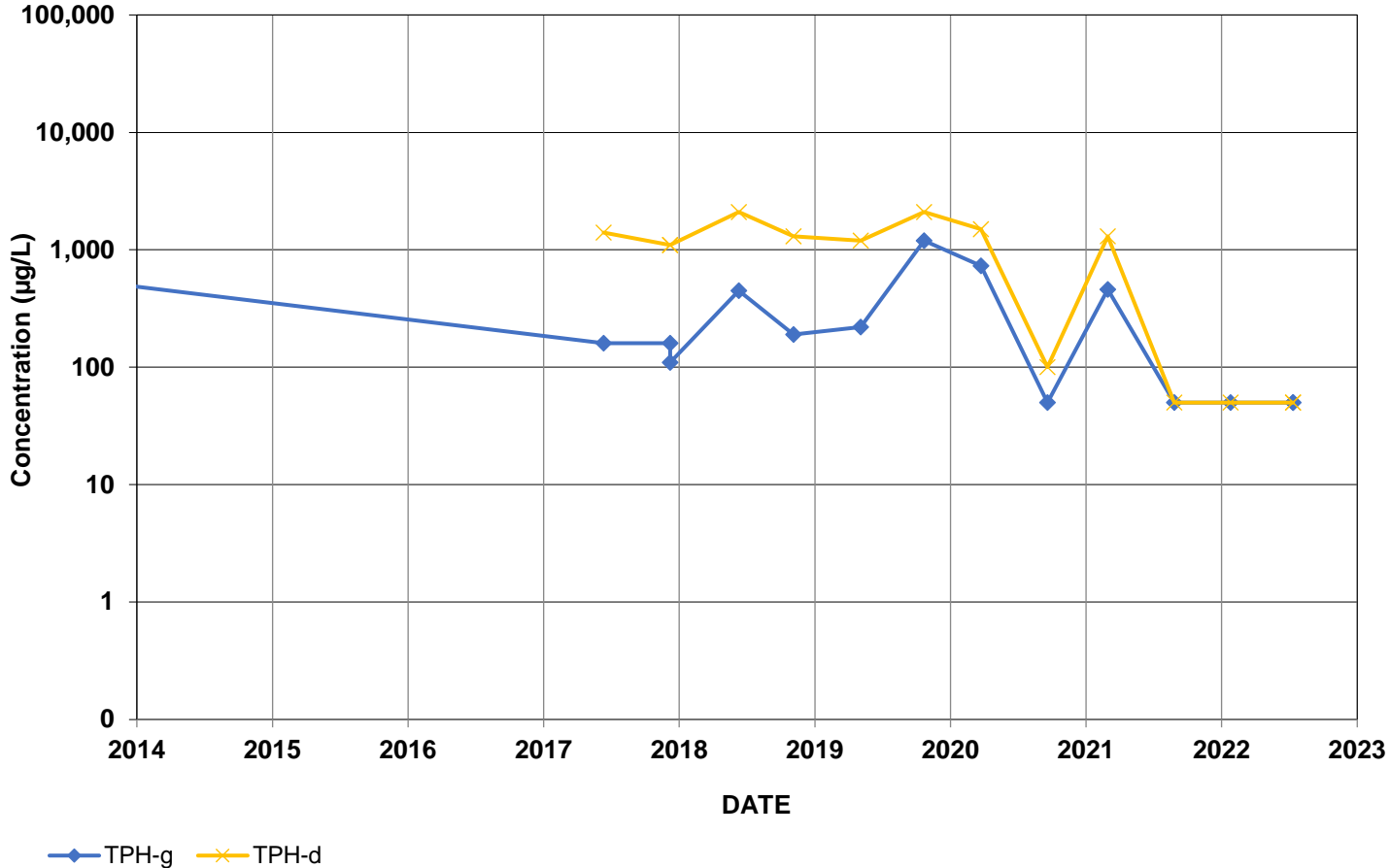
GMW-31



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: TFB-32 (31 feet)

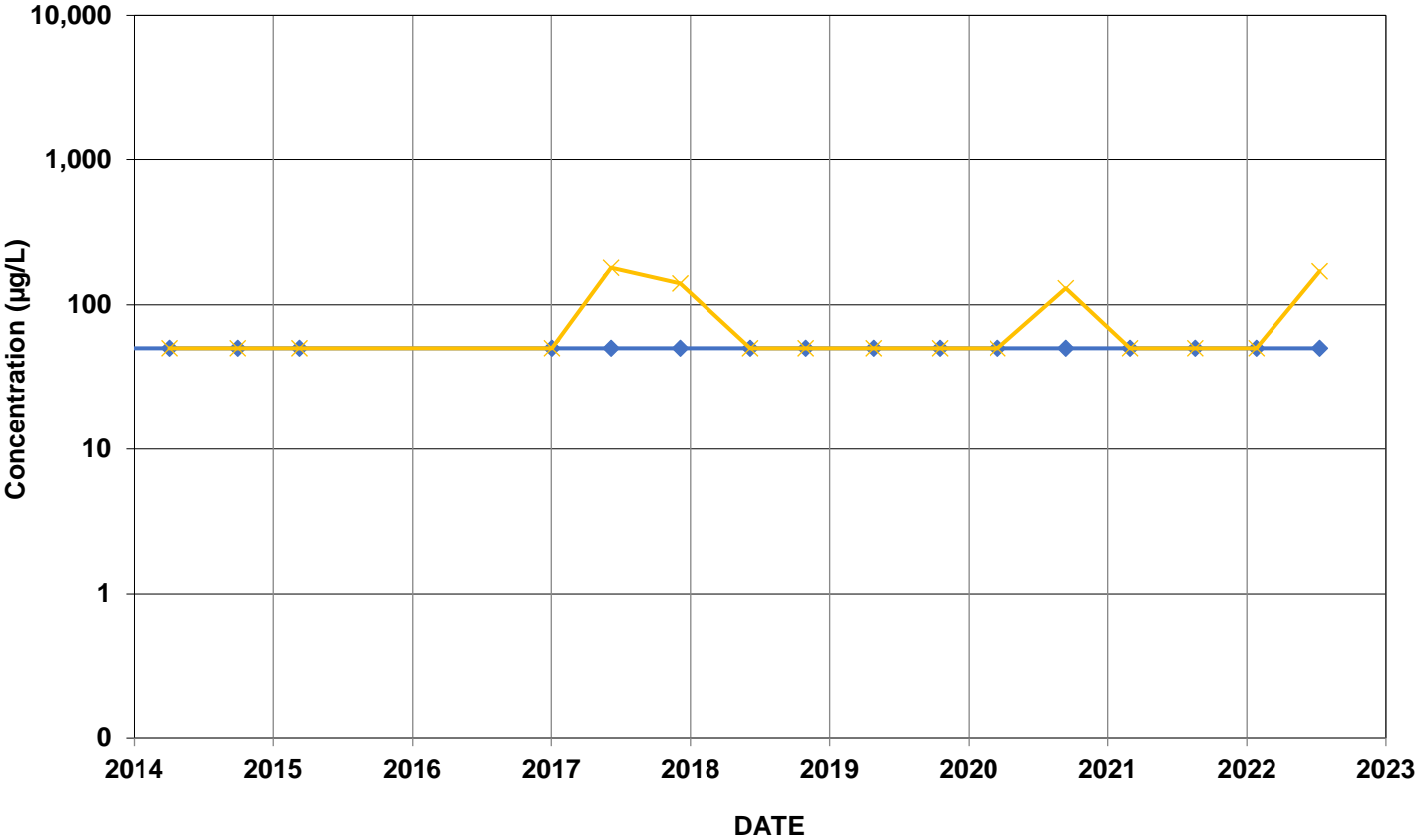
GMW-35R



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: BSP-25 (22 feet)

GMW-42

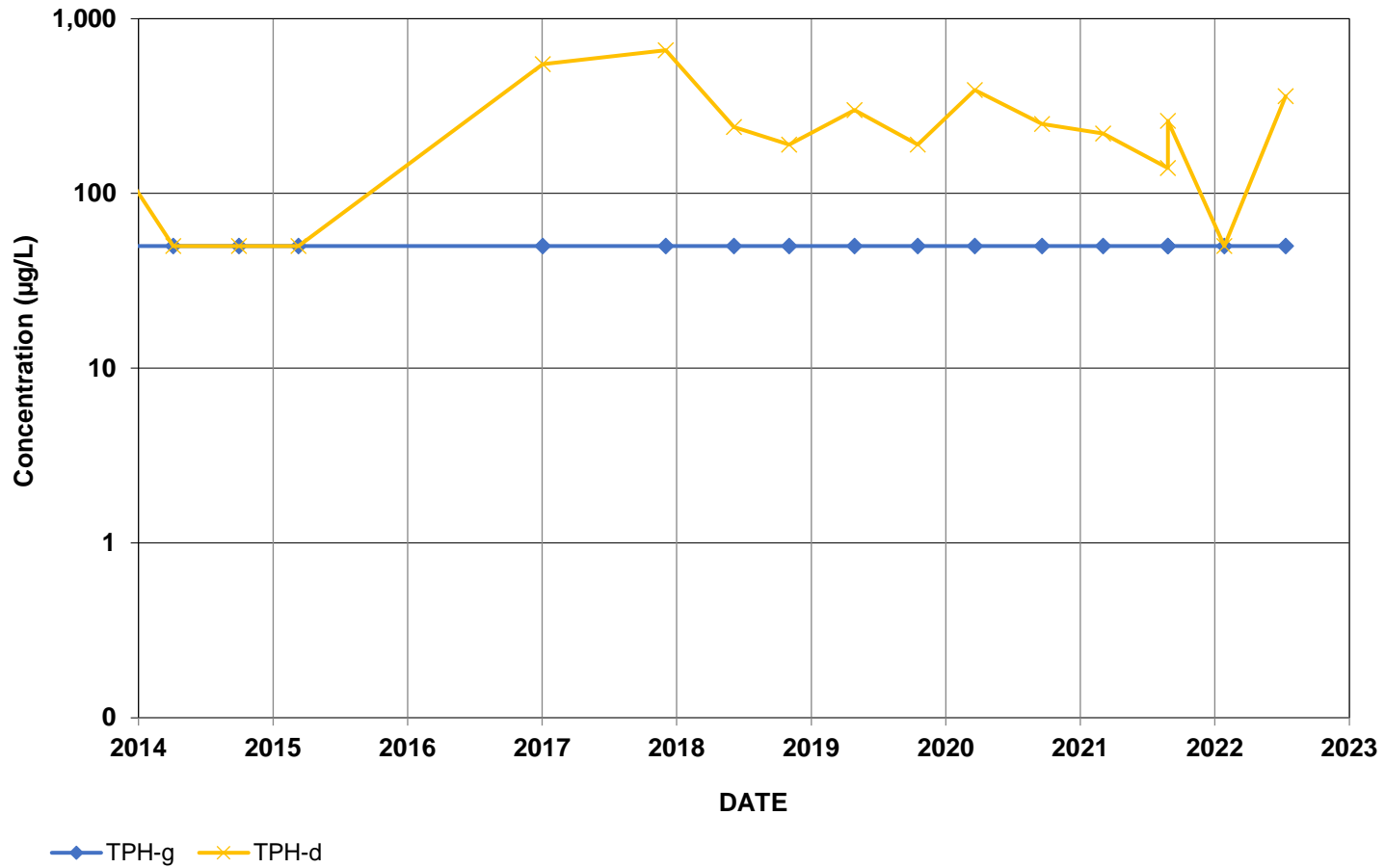


TPH-g TPH-d

Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Wells: BSP-34 (21 feet), TFB-11 (35 feet)

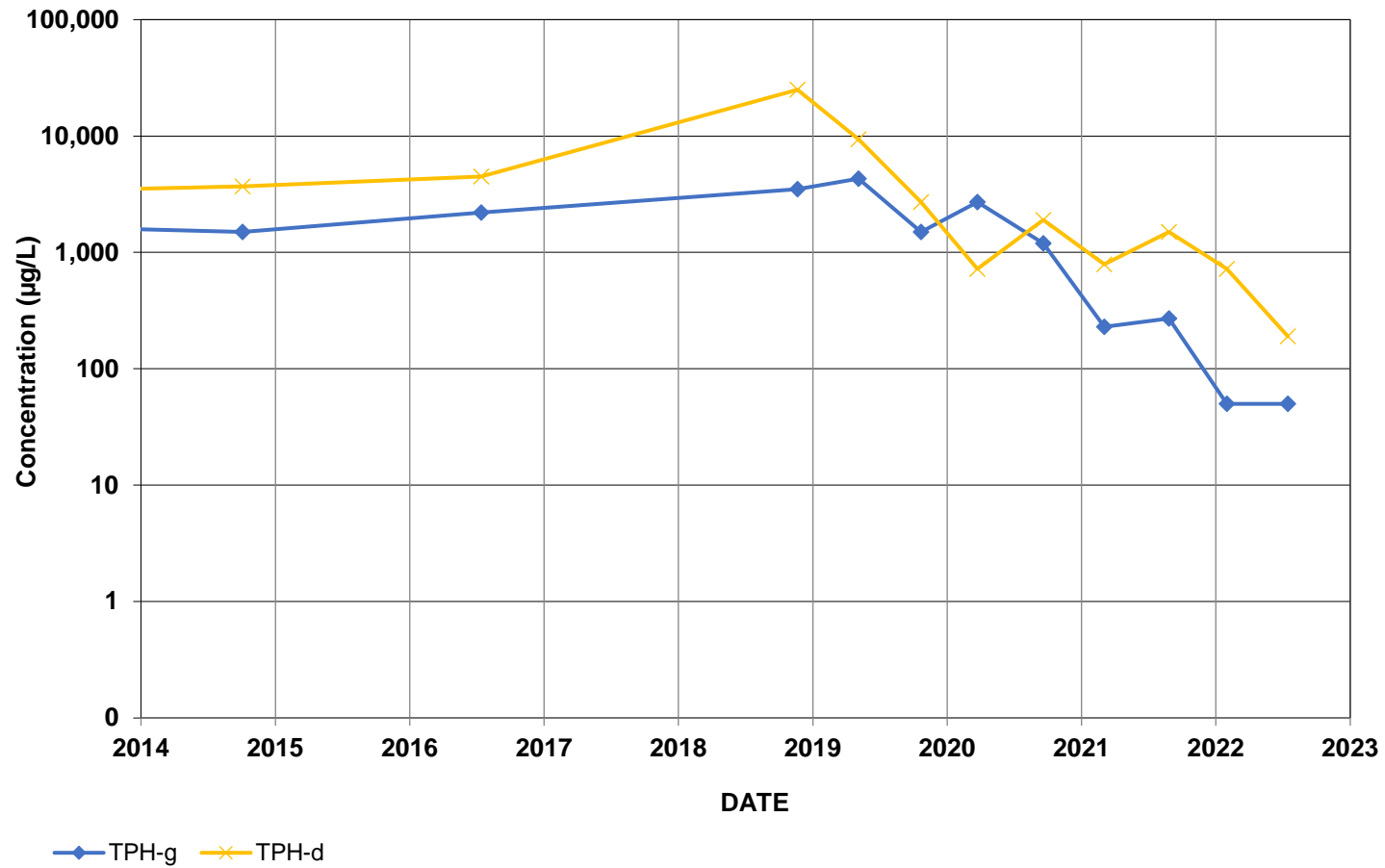
GMW-43



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Wells: TFB-27 (4 feet), TFB-31 (70 feet)

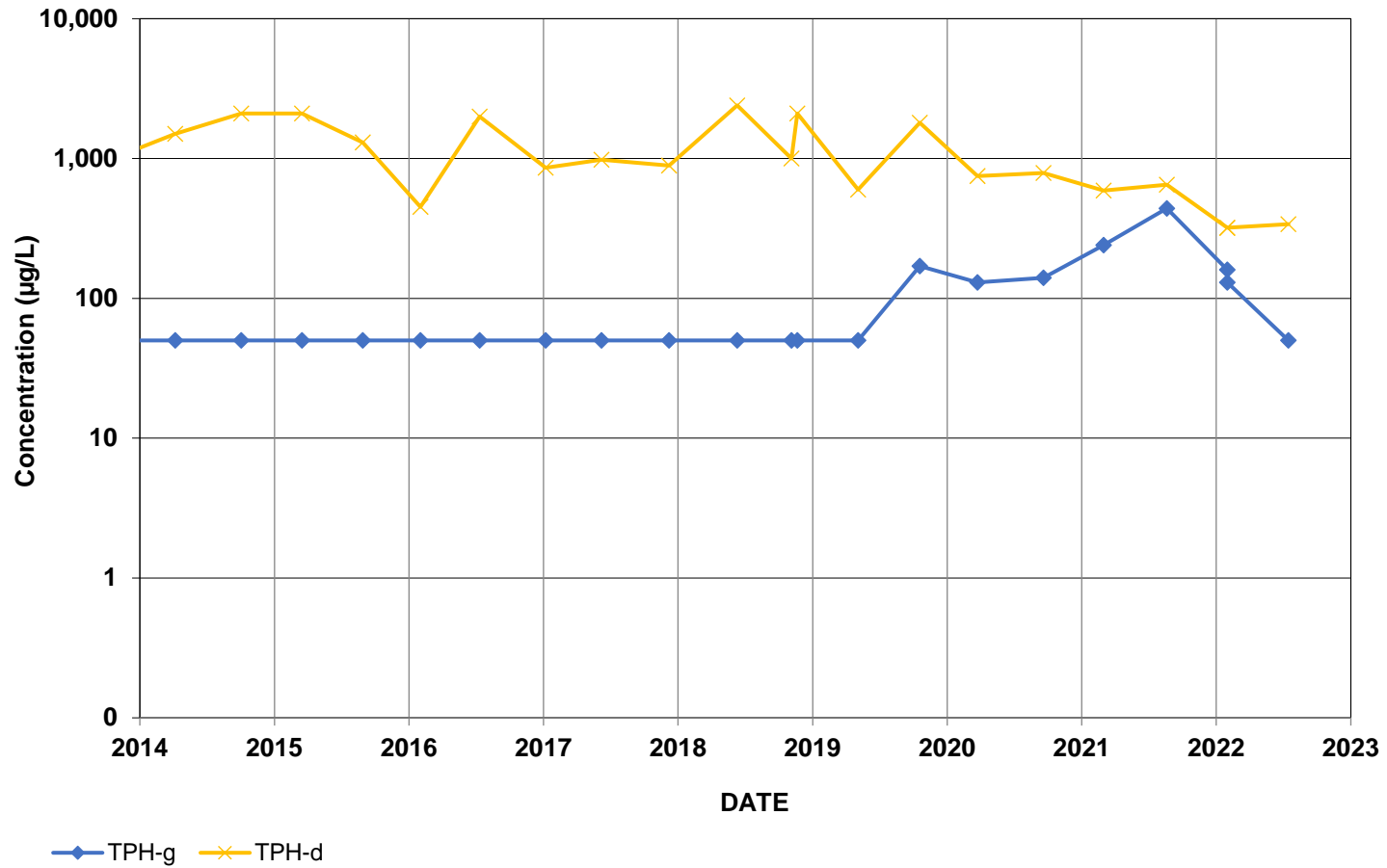
GMW-45



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Wells: HAS-2 (10 feet), RW-1 (92 feet)

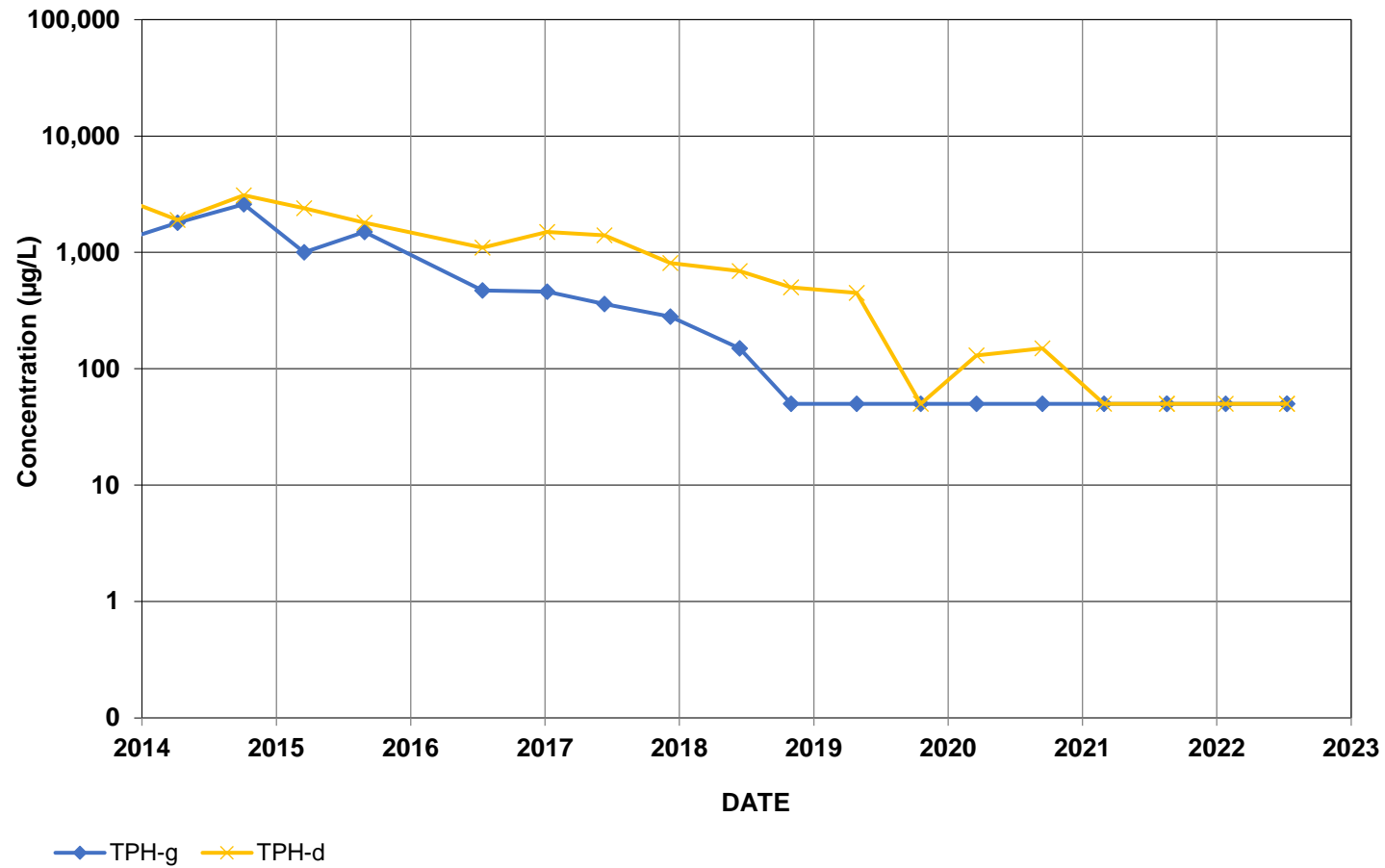
GMW-47



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: TFB-38 (18 feet)

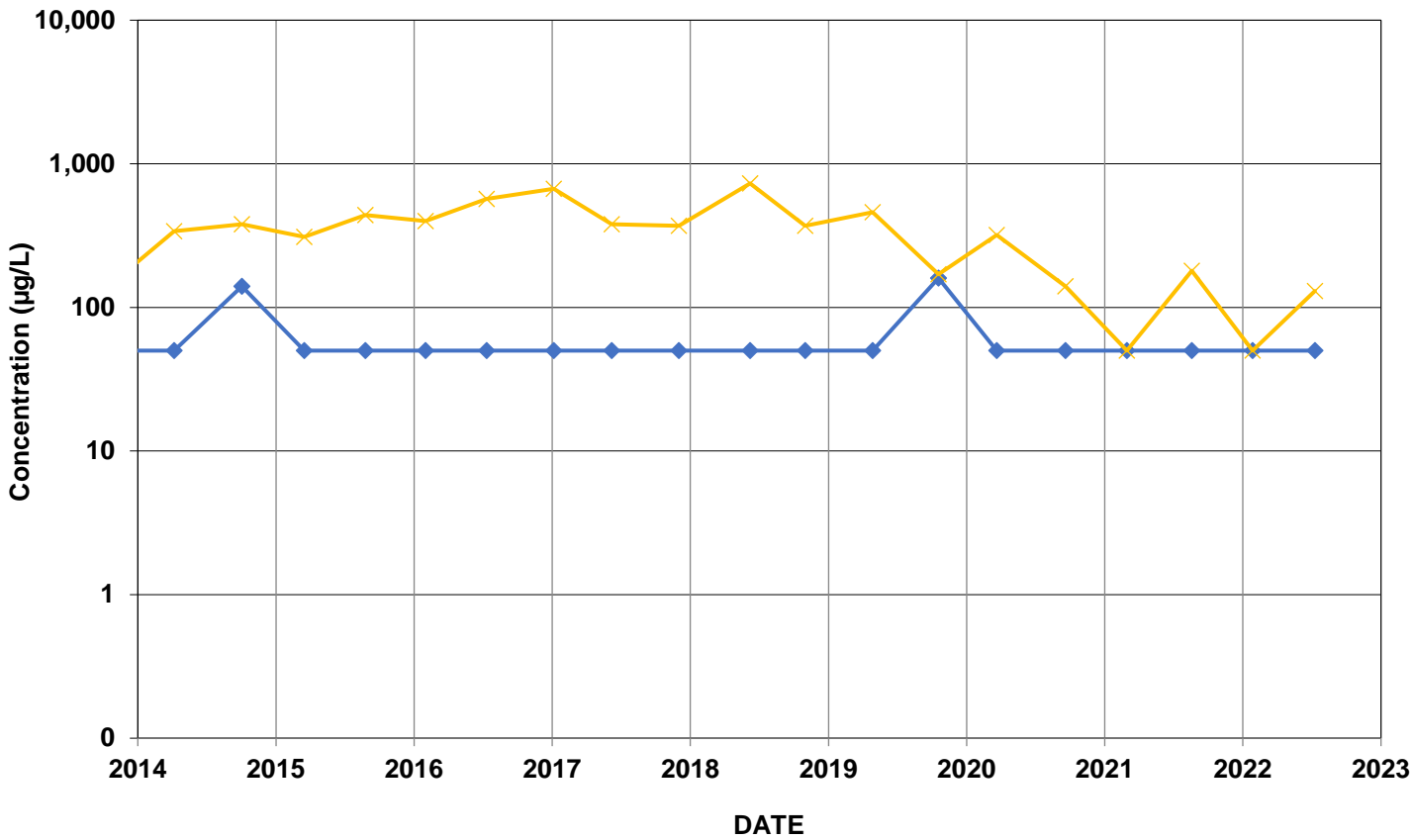
GMW-48



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: RW-6 (70 feet)

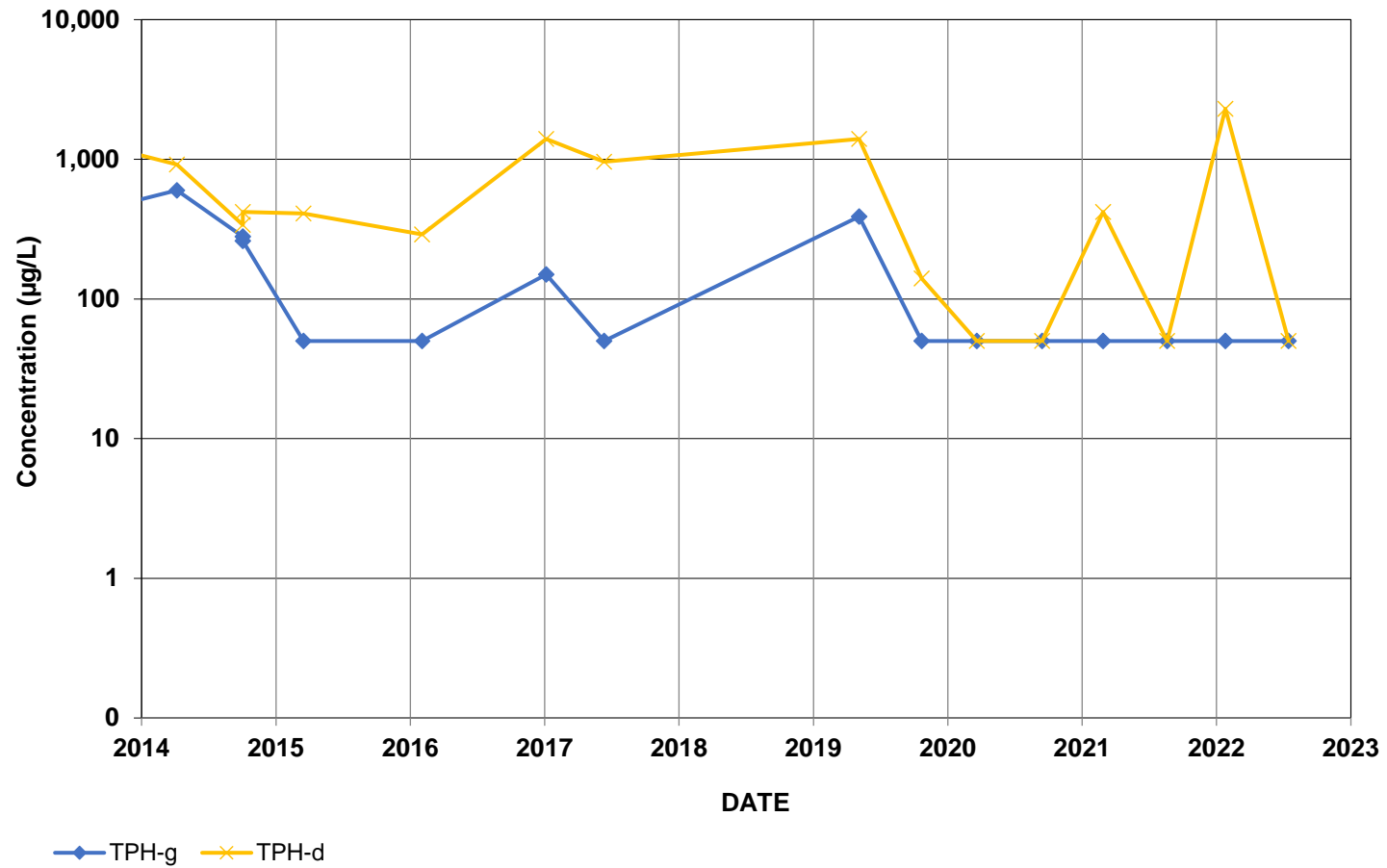
GMW-57



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: RW-8 (9 feet)

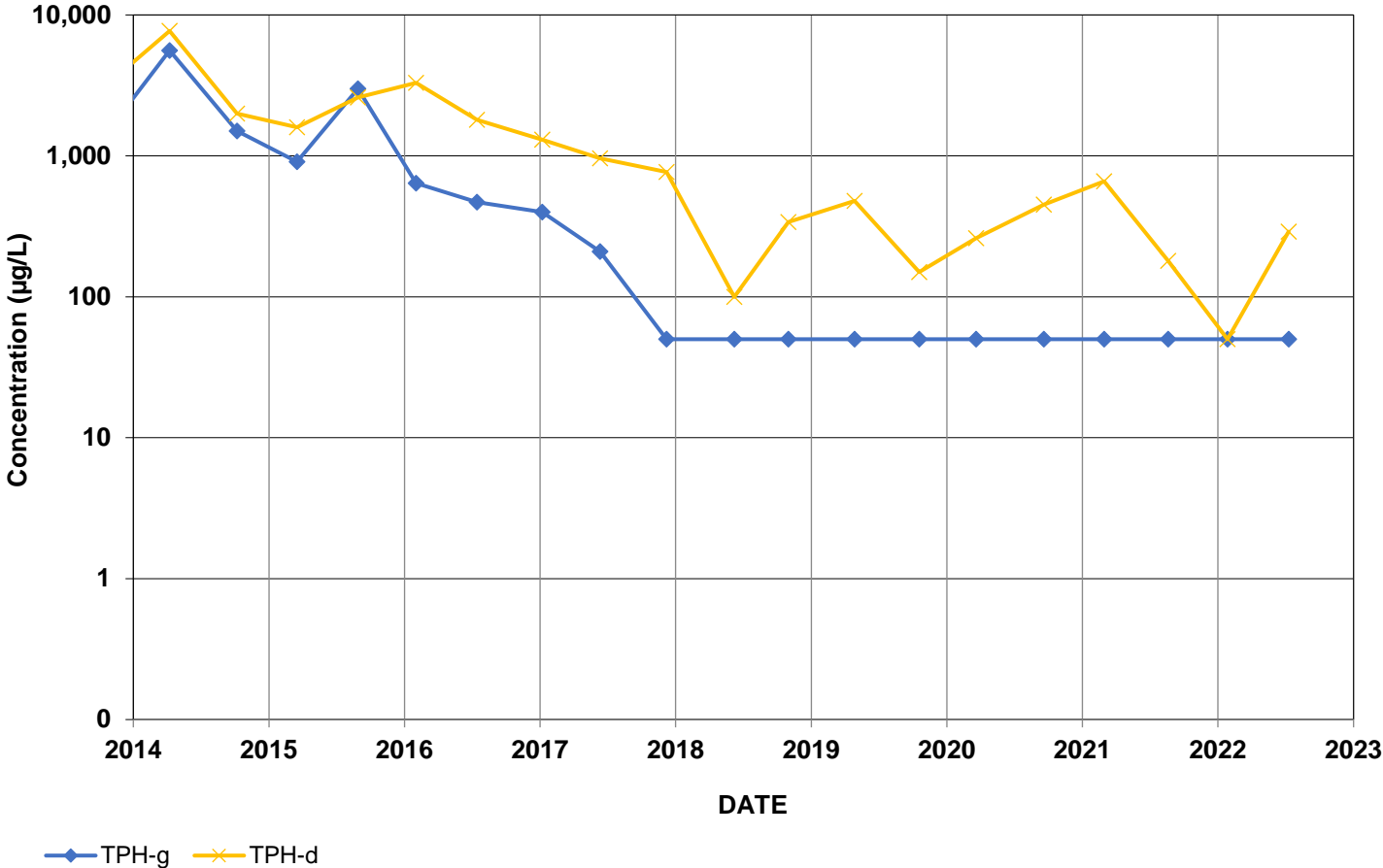
GMW-58



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Wells: HAS-4 (8 feet), RW-10 (26 feet)

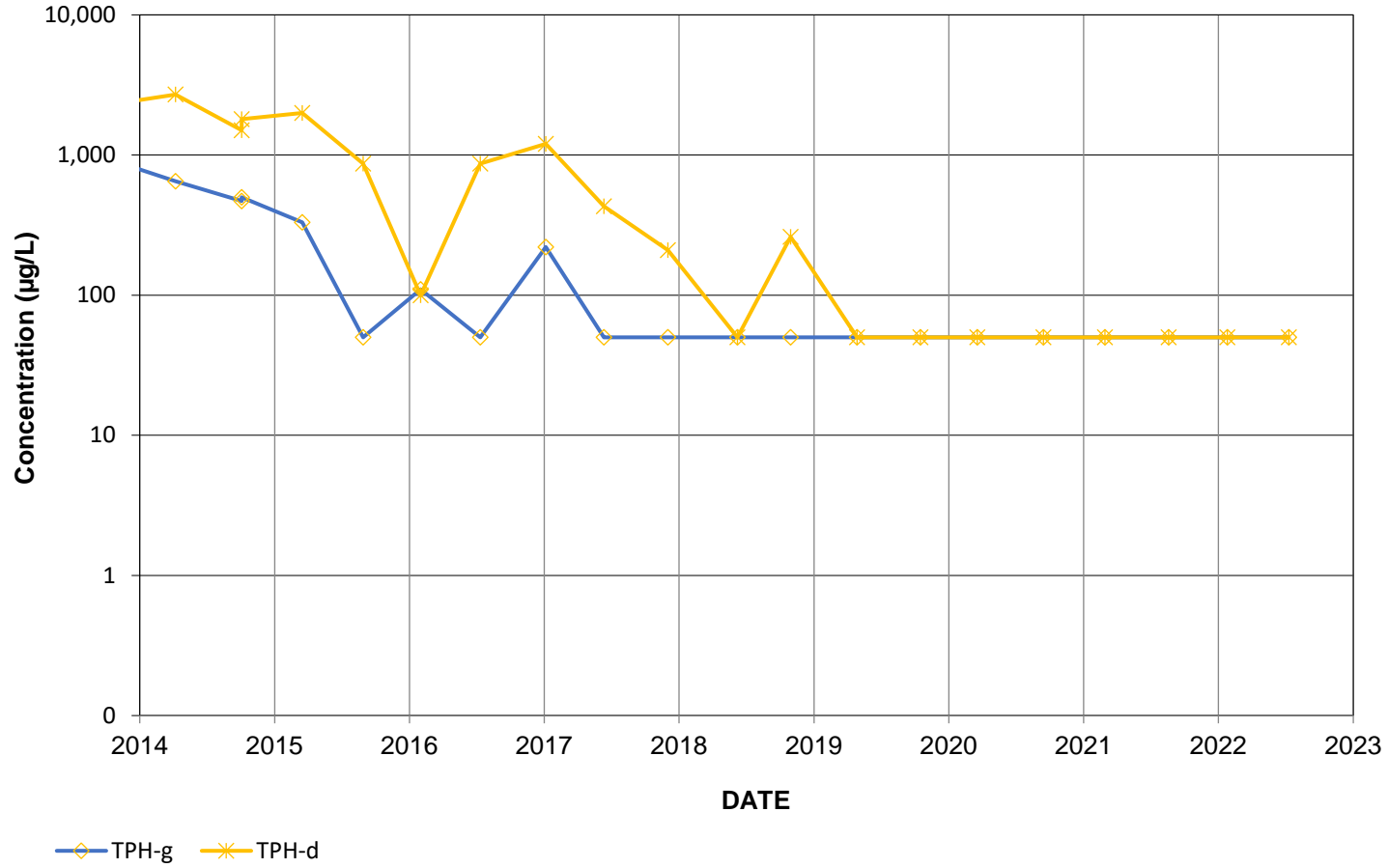
GMW-59



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: BSP-10 (17.5 feet)

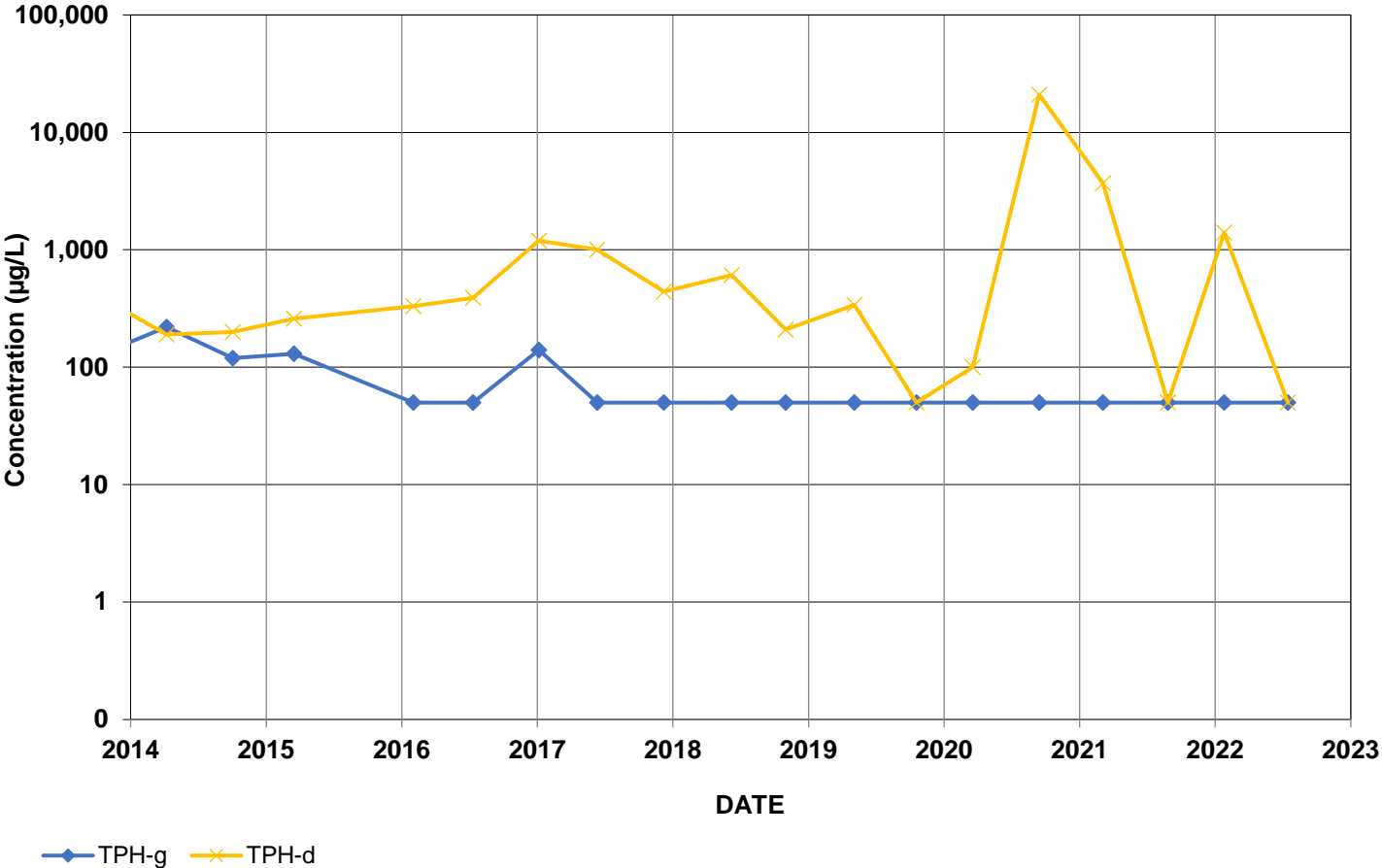
GMW-60



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Wells: HAS-4 (12 feet), BSP-13 (18 feet)

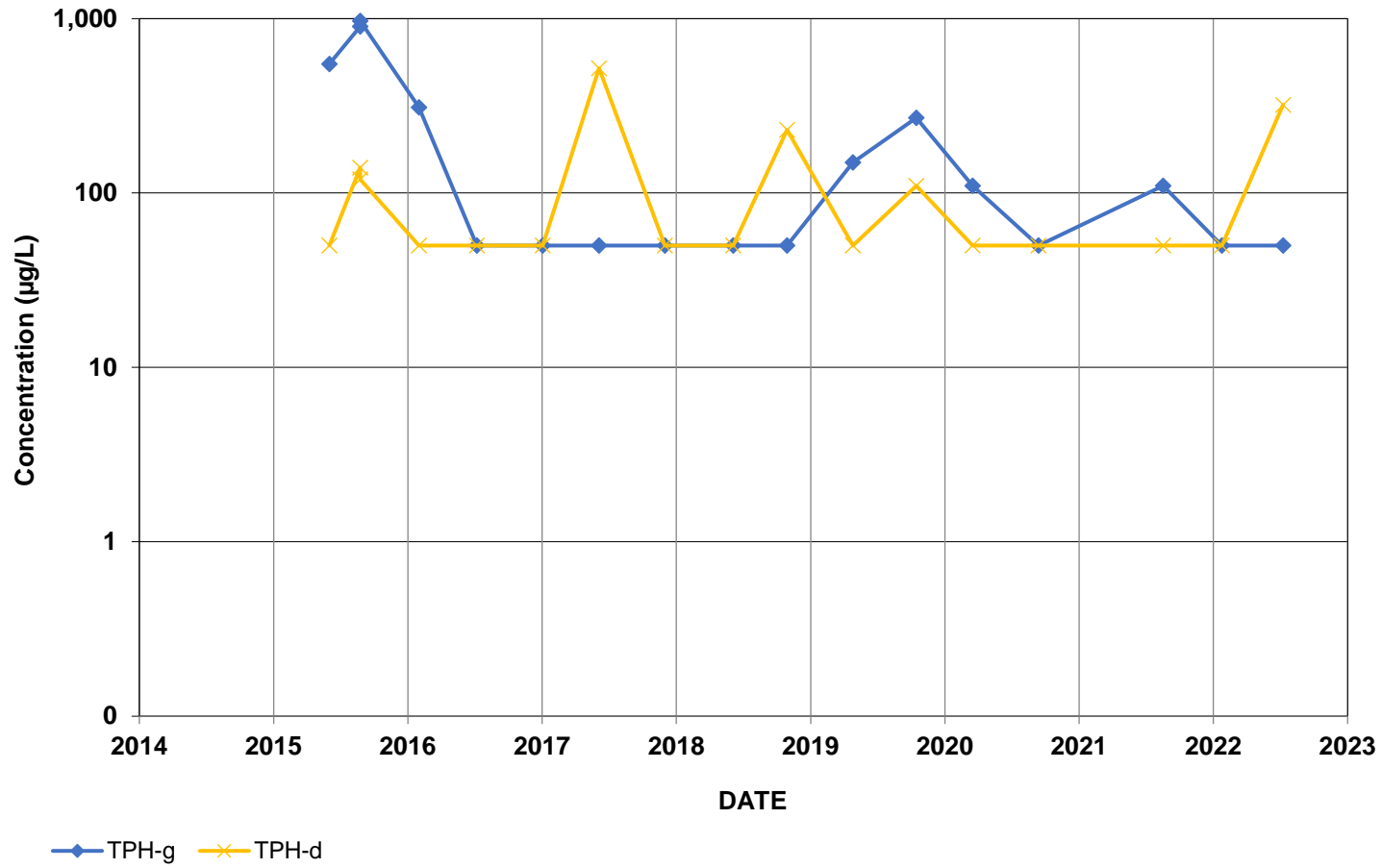
GMW-61



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: HAS-3 (88 feet)

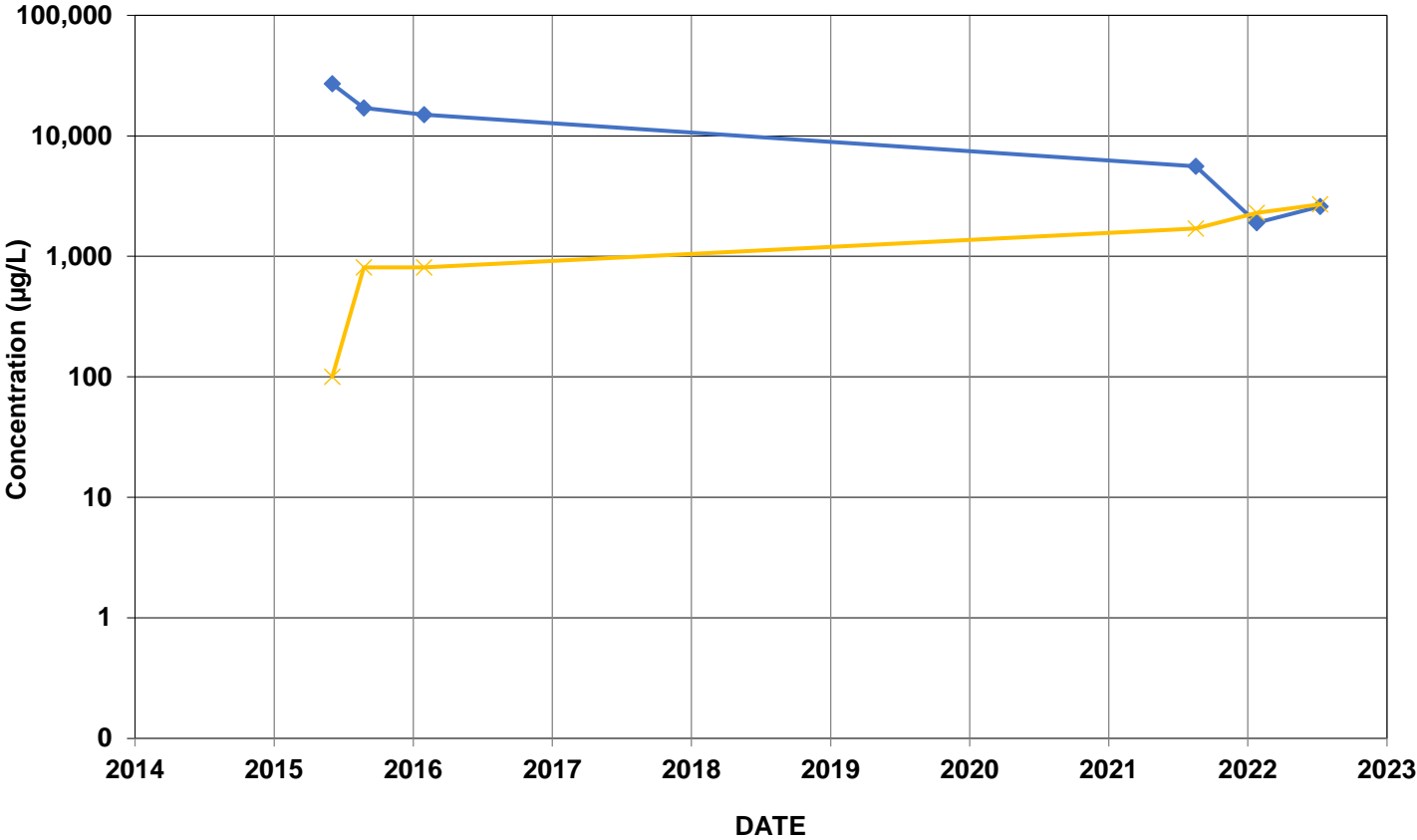
GMW-67



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: HAS-3 (9 feet)

GMW-68

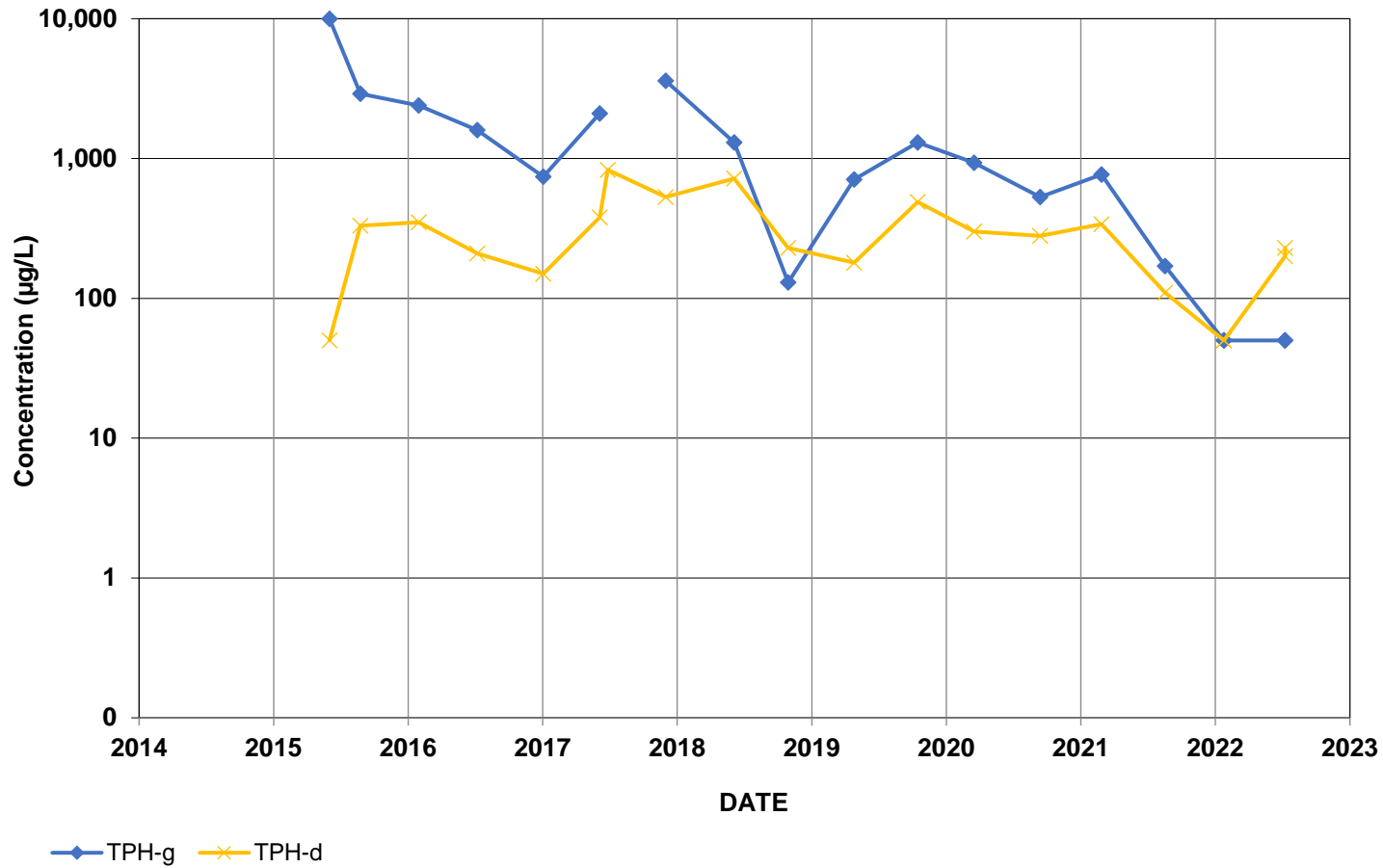


TPH-g TPH-d

Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: HAS-4 (35 feet)

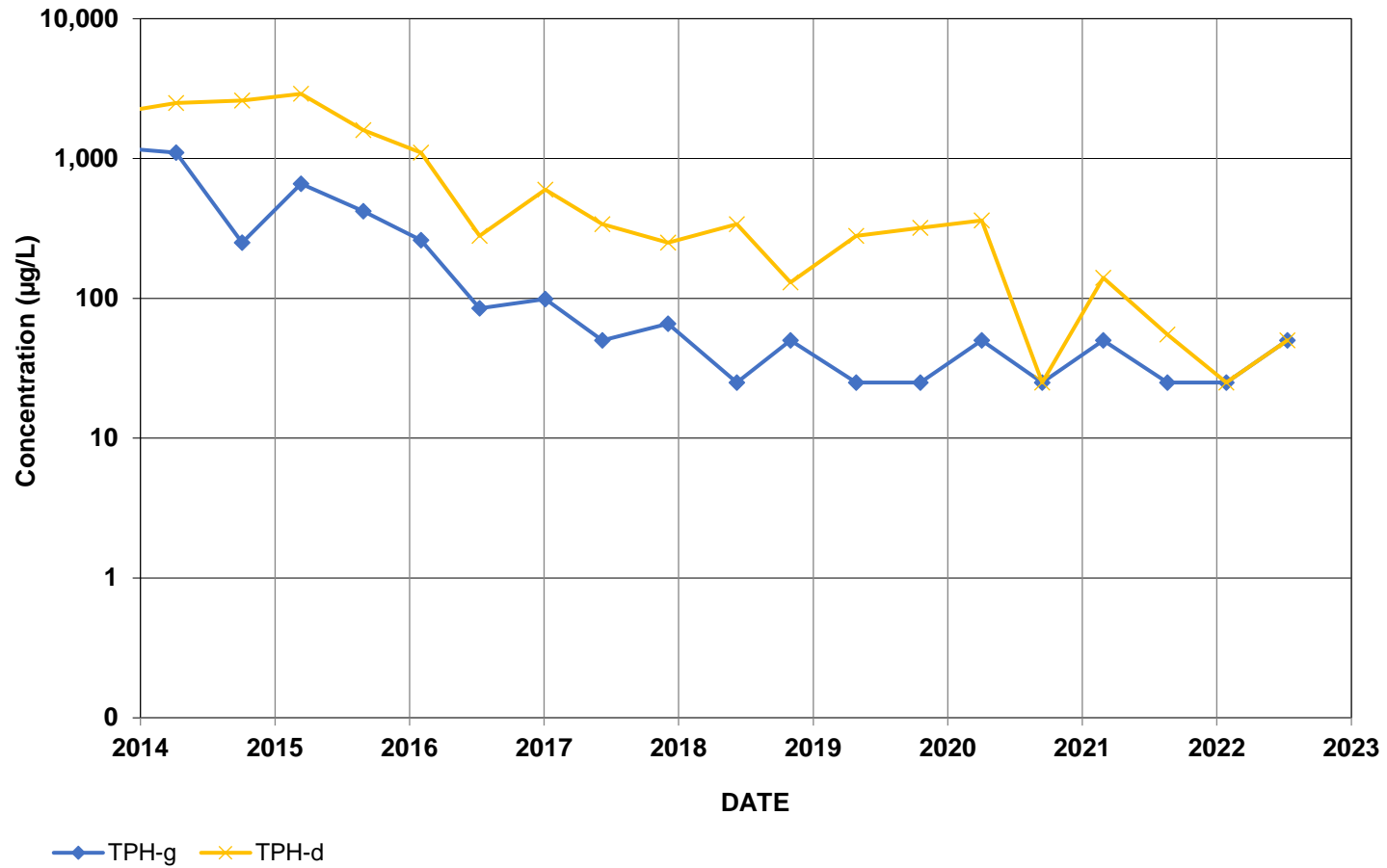
GMW-69



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Wells: BSP-19 (70 feet), RW-32 (70 feet)

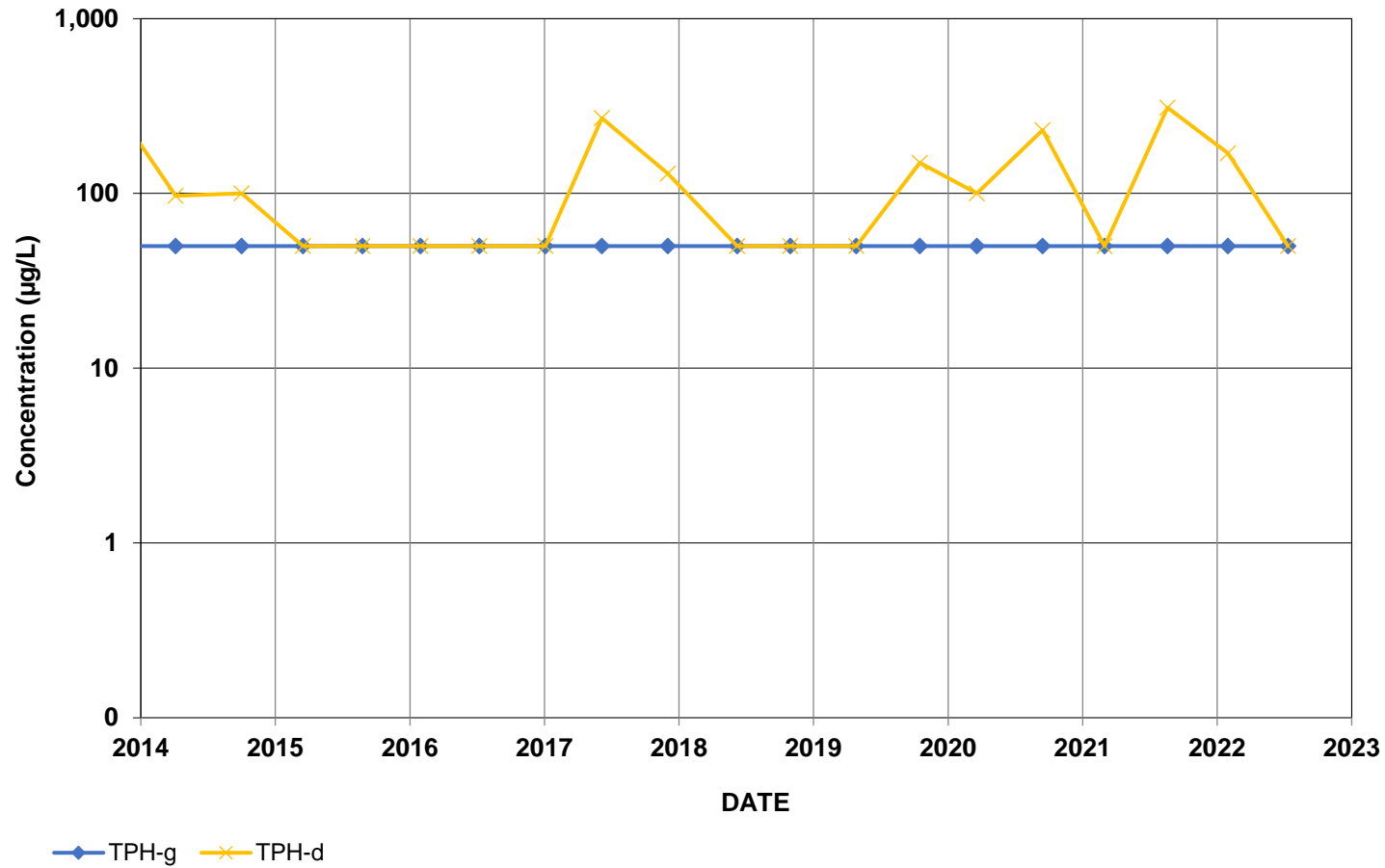
MW-9



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Wells: HAS-1 (13 feet), RW-1 (151 feet)

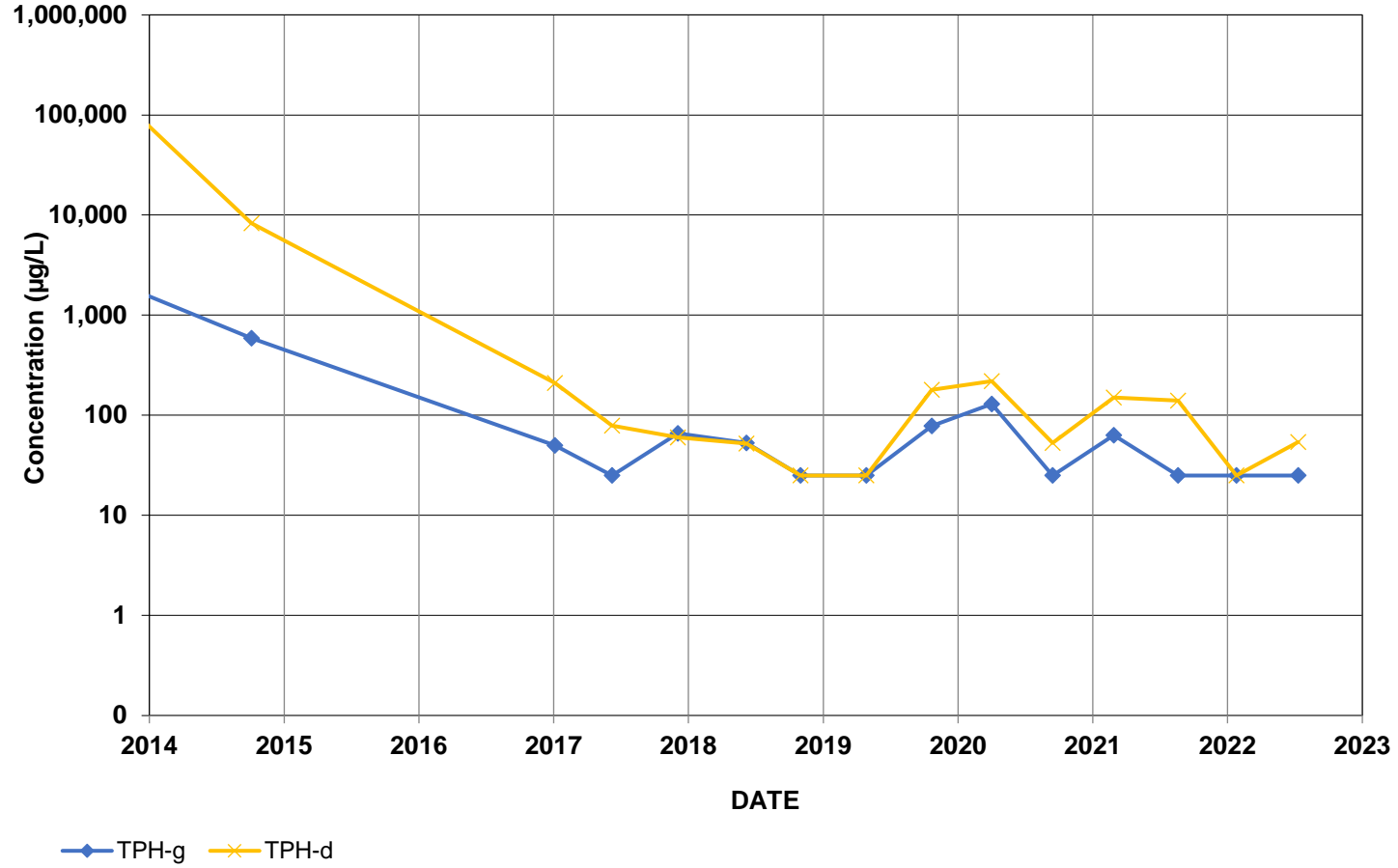
MW-13



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: BSP-15 (18 feet)

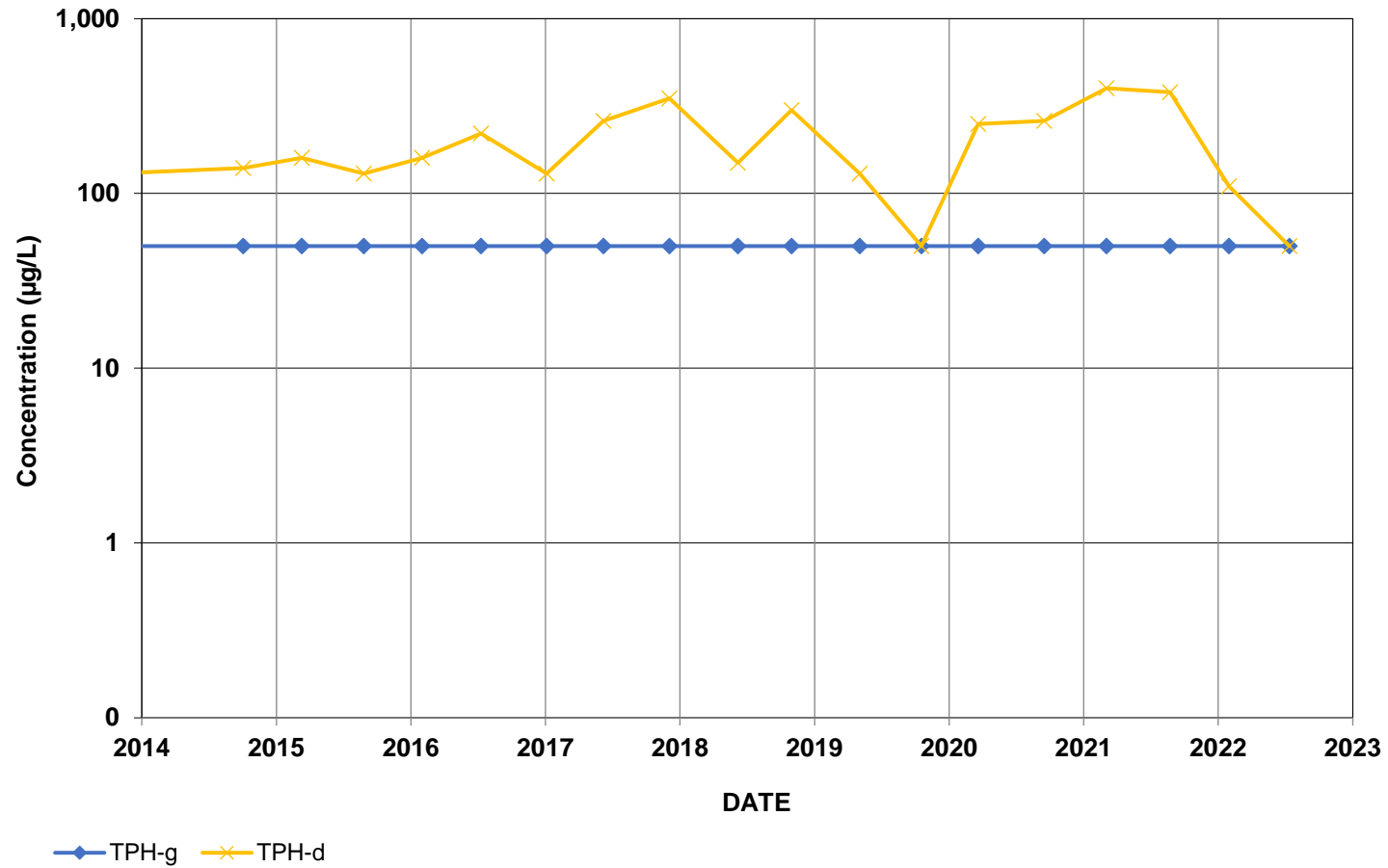
MW-15R



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: BSP-32 (20 feet)

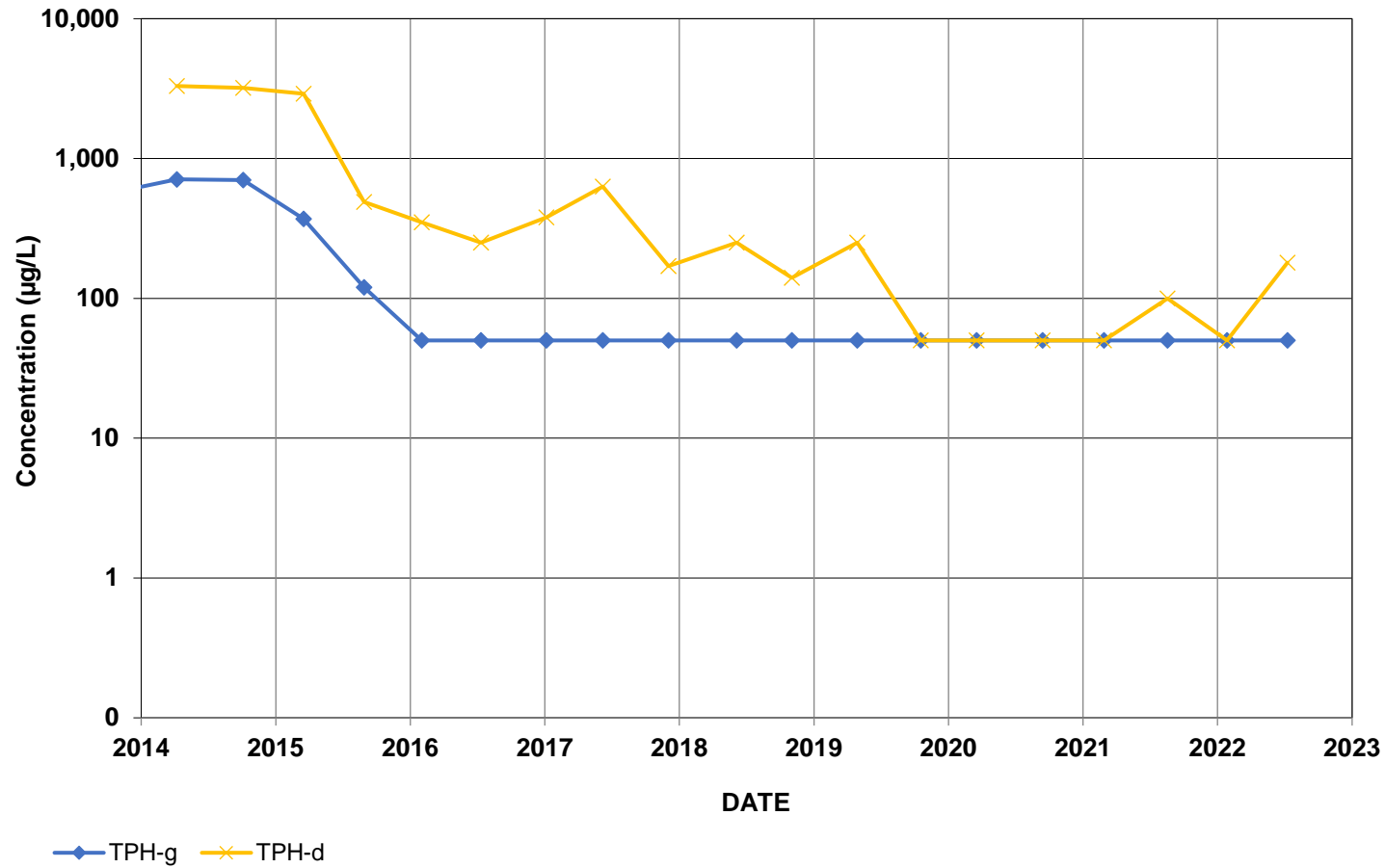
MW-27



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: TFB-20 (9 feet)

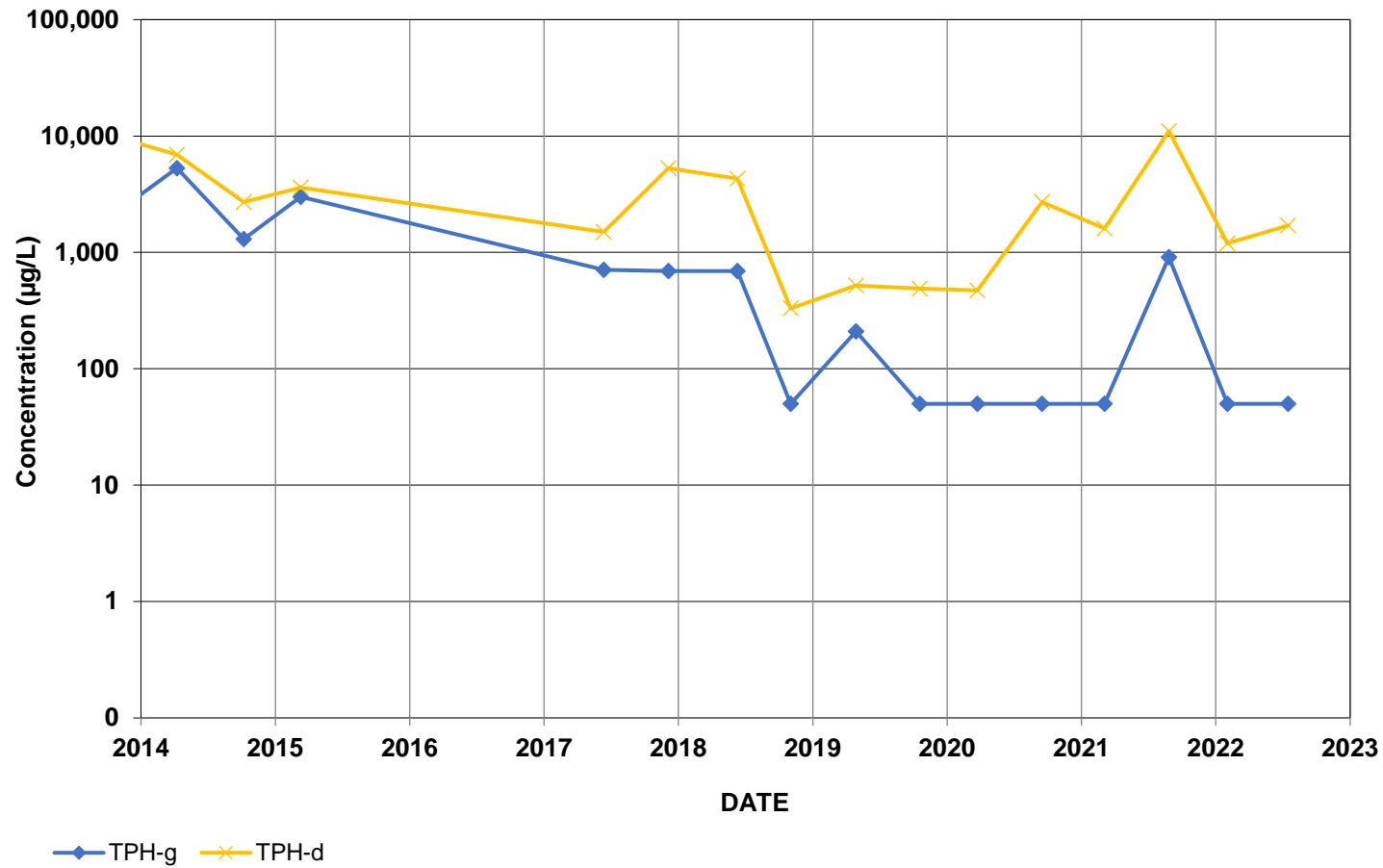
MW-29



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: TFB-7 (26 feet)

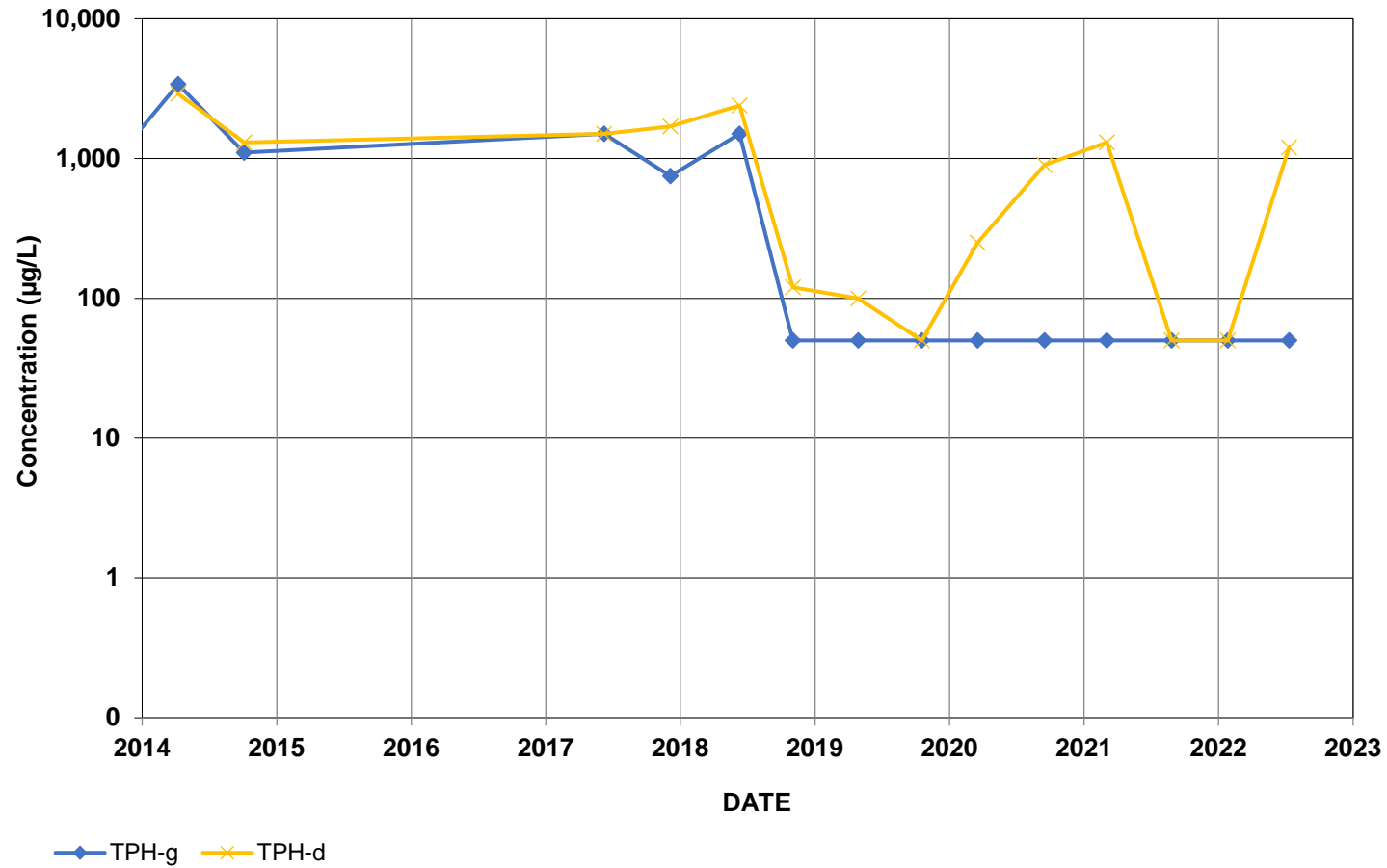
PZ-3



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Wells: BSP-23 (35 feet), BSP-31 (10 feet)

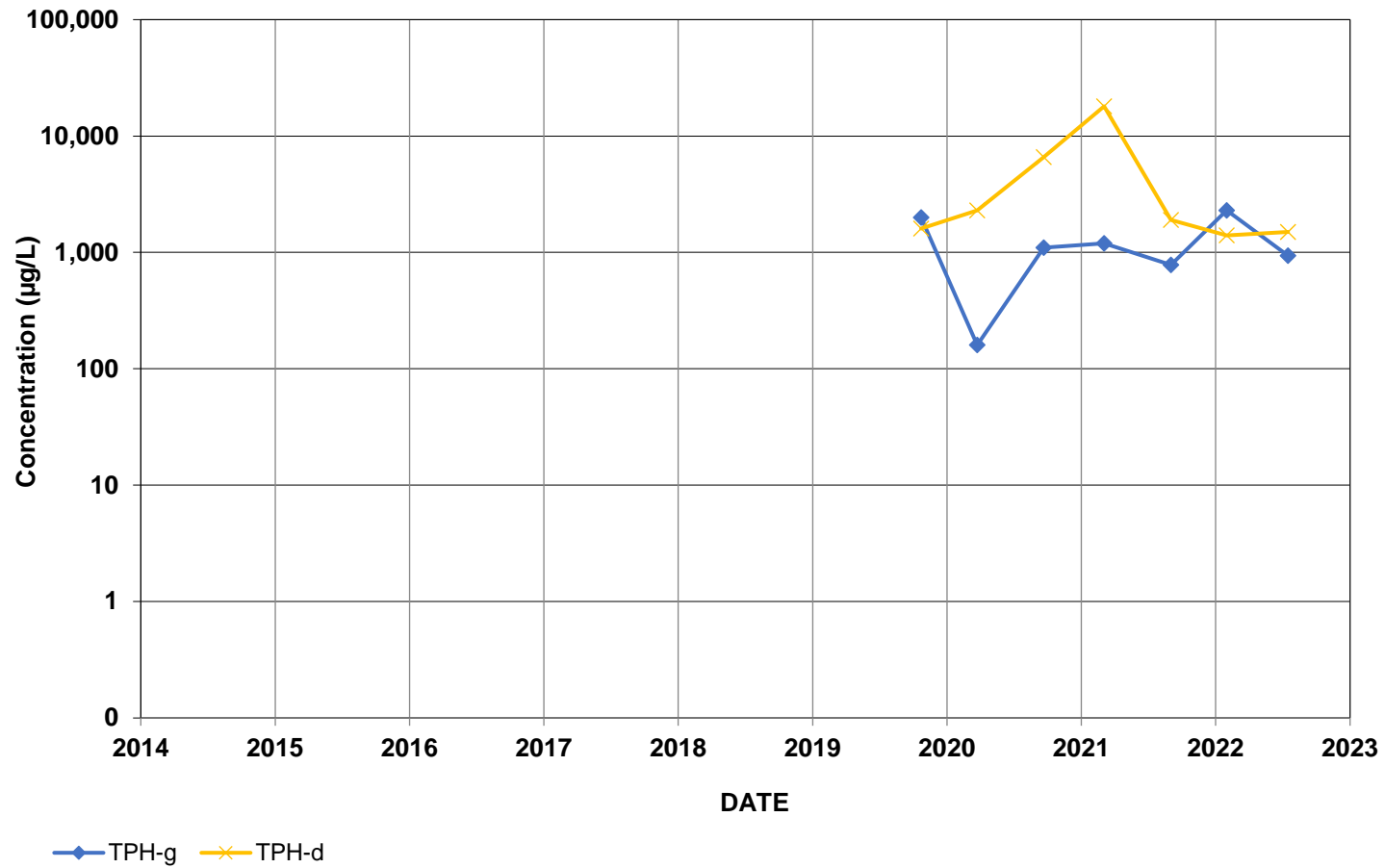
TF-9R



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Wells: BSP-35 (23 feet), TFB-13 (35 feet)

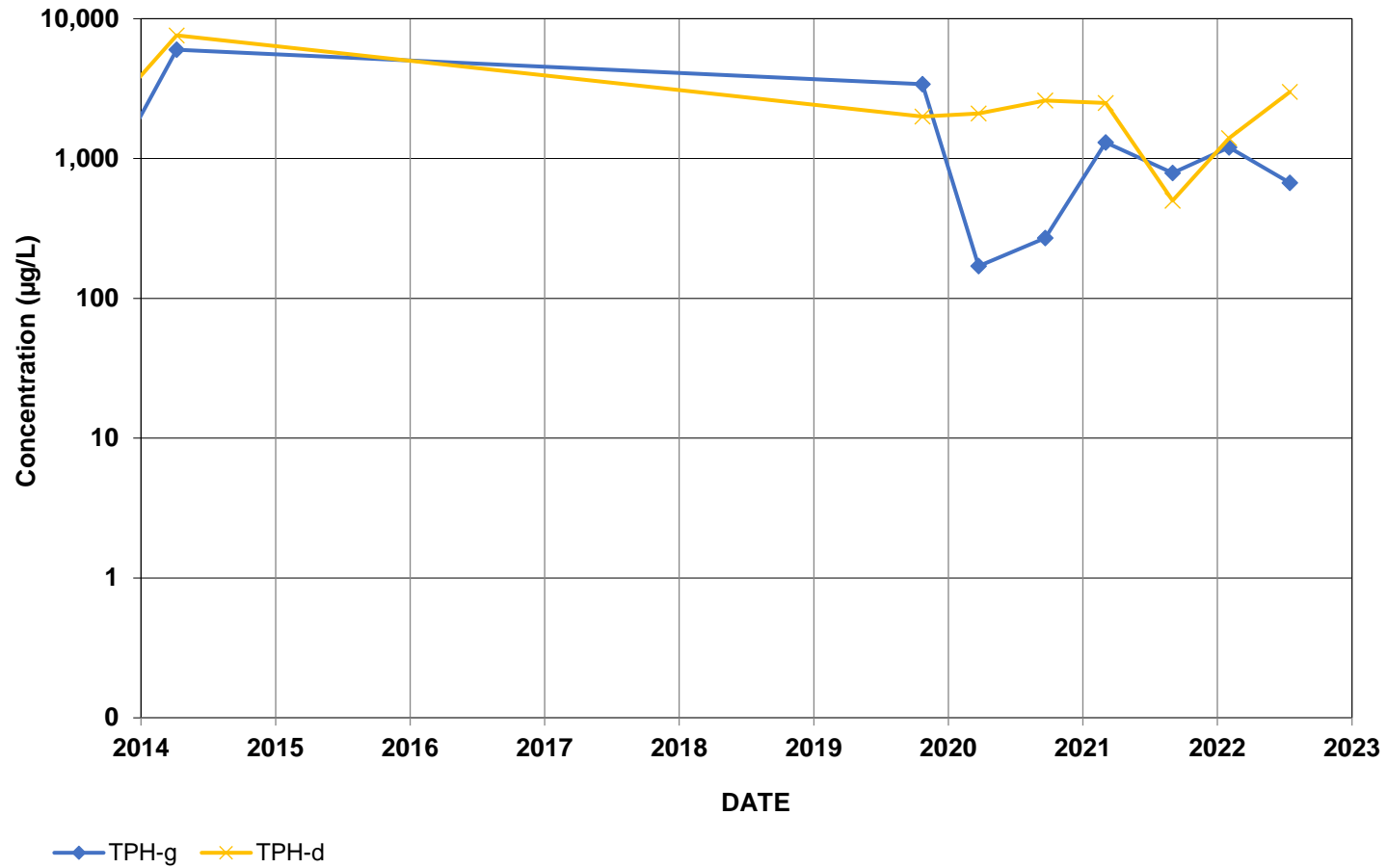
TF-15



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Wells: BSP-37 (27 feet), TFB-15 (35 feet)

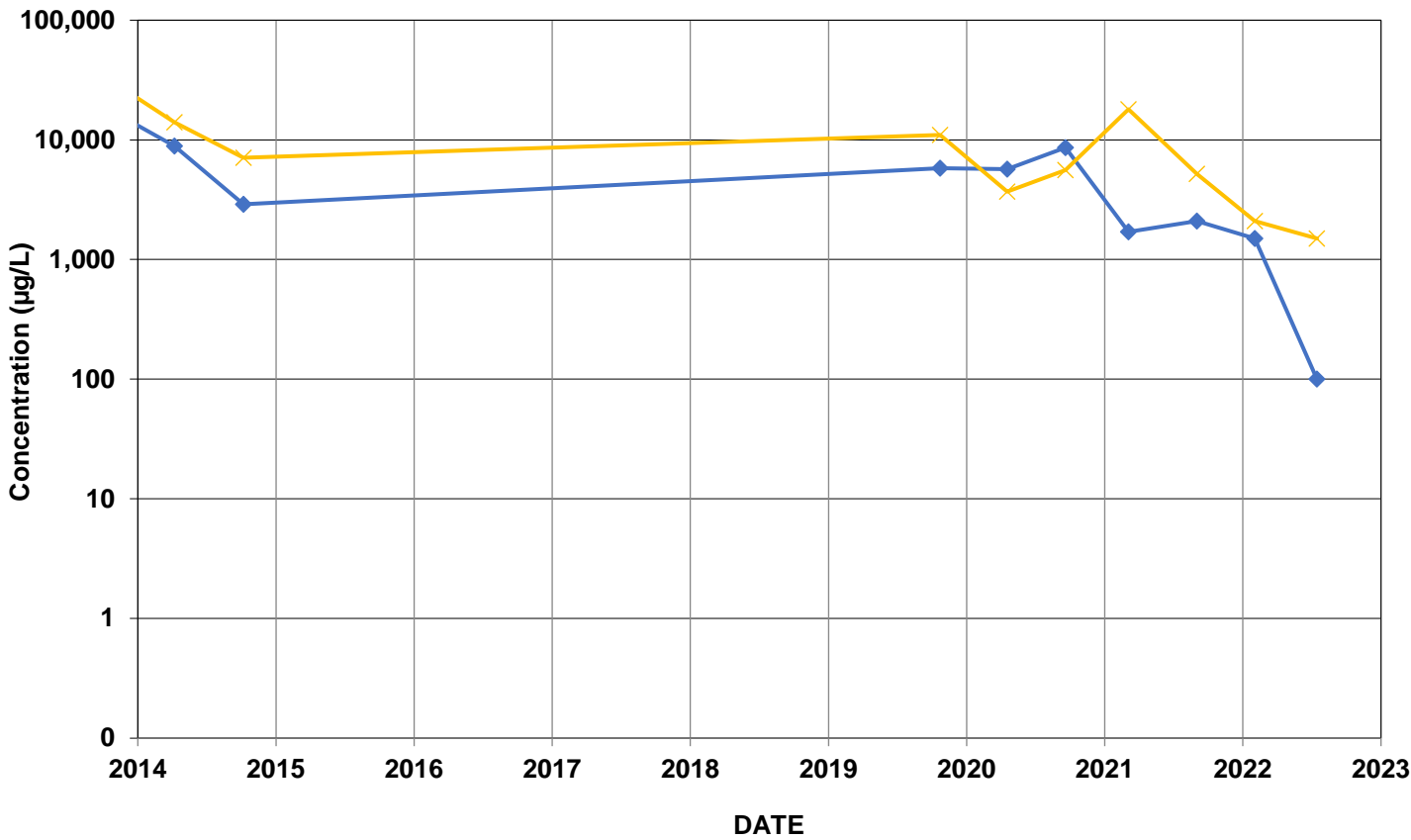
TF-16



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Wells: TFB-44 (14 feet), TFB-24 (44 feet)

TF-17R

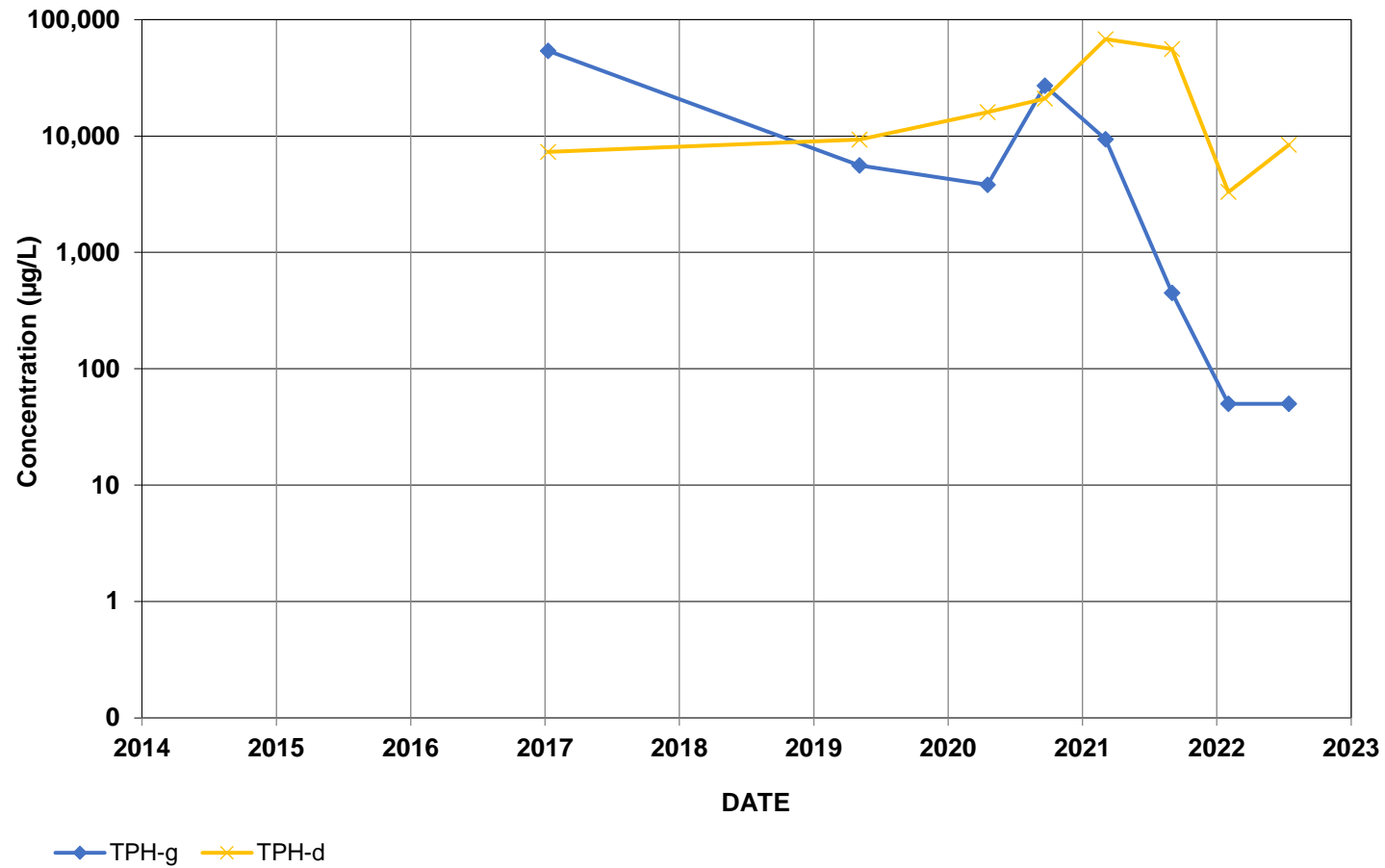


TPH-g TPH-d

Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Wells: BSP-39 (20 feet), TFB-23 (53 feet)

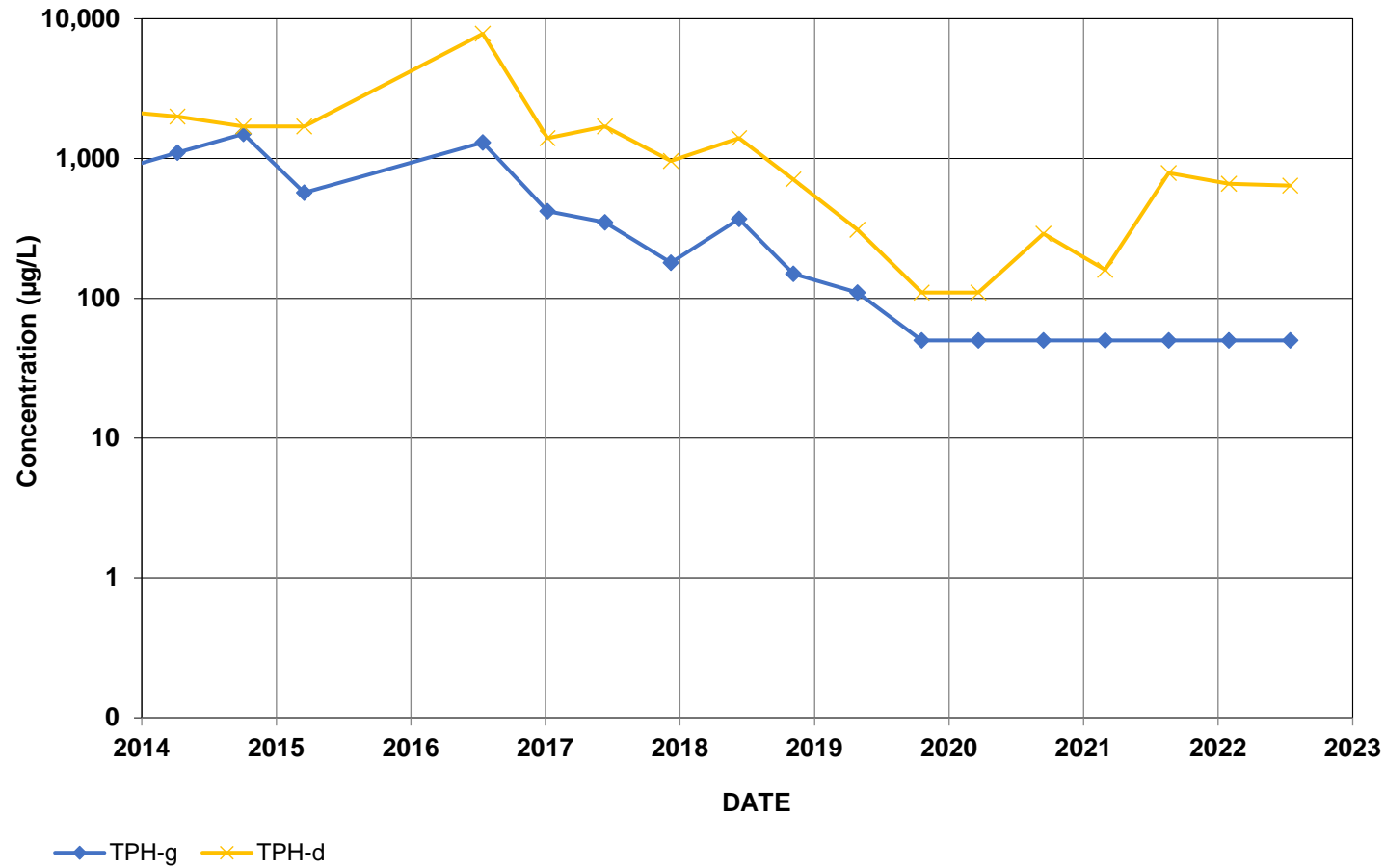
TF-18



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: TFB-35 (18 feet)

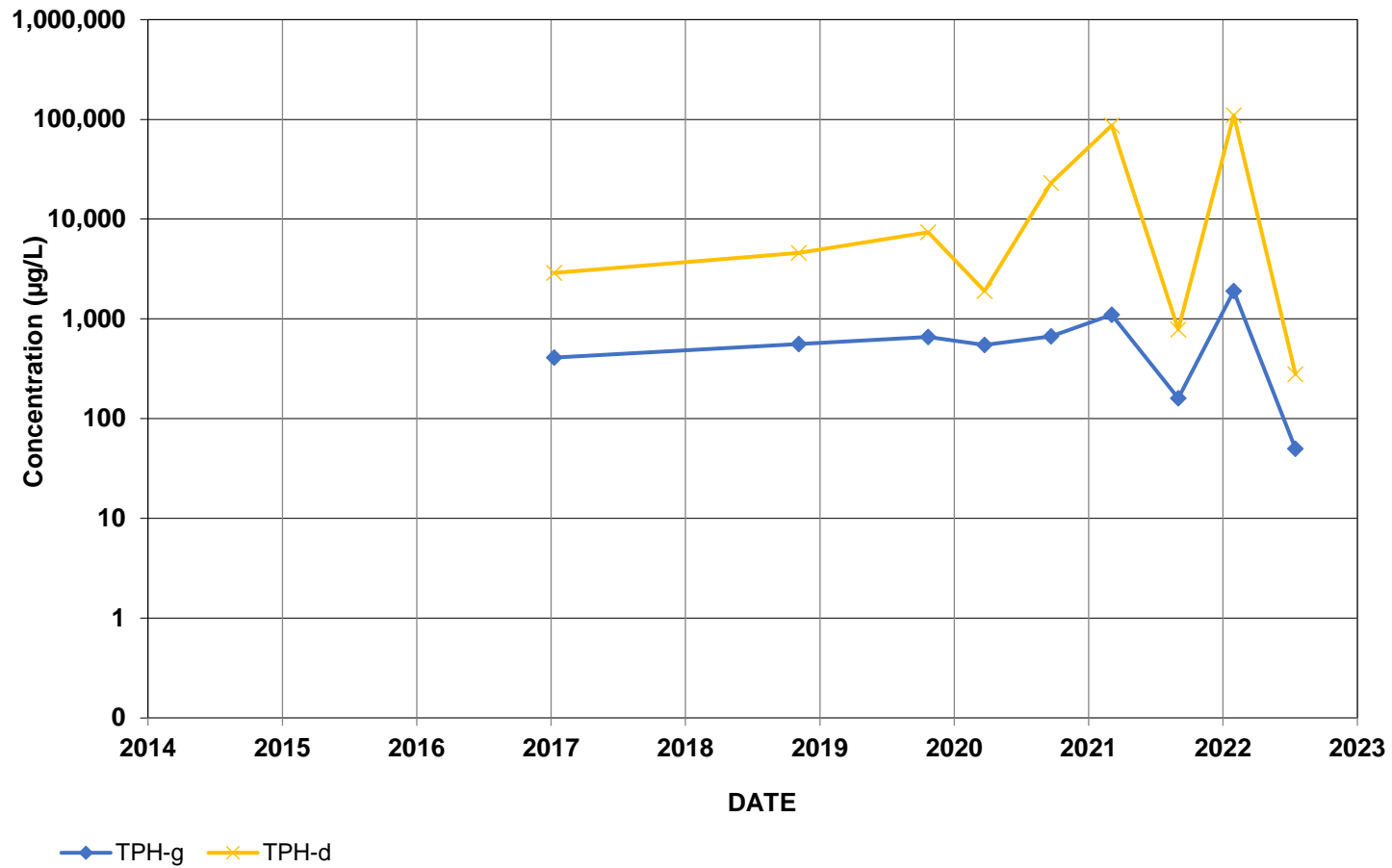
TF-21



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: TFB-40 (10 feet), TFB-21 (53 feet)

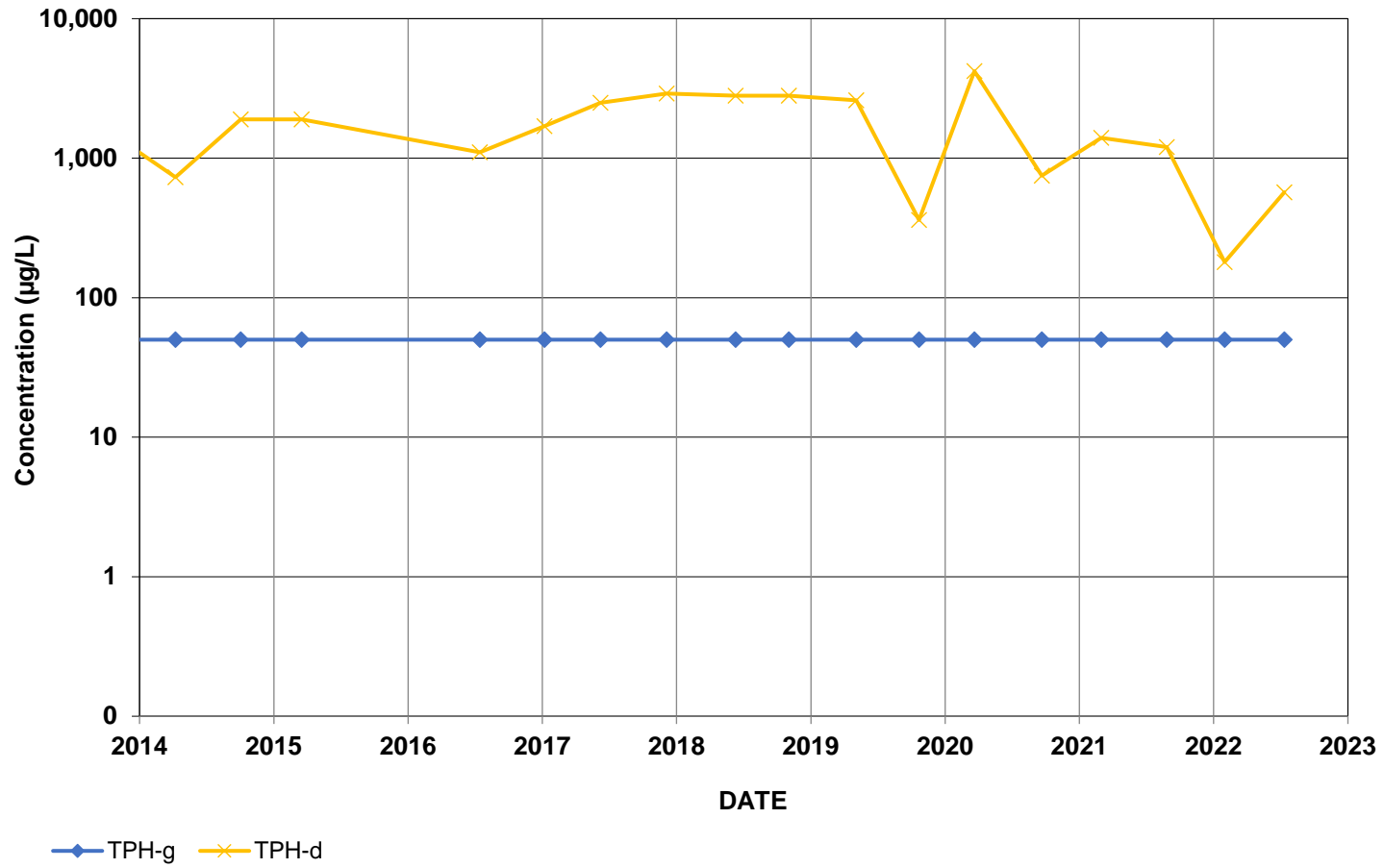
TF-23



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Wells: BSP-33 (15 feet), TFB-6 (35 feet)

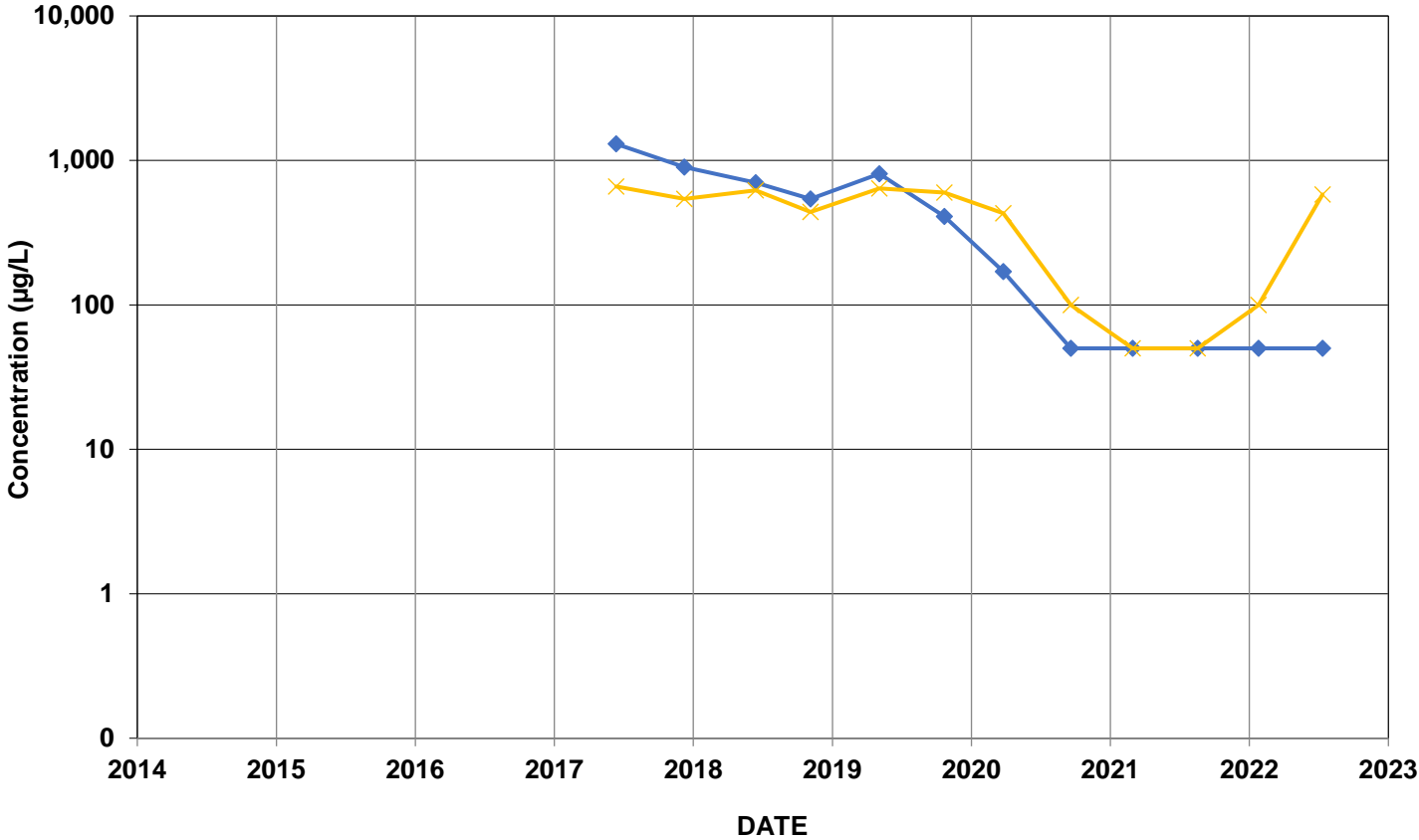
TF-24



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: TFB-30 (35 feet)

TF-20R



TPH-g TPH-d

Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)