

REMEDIATION STATUS REPORT - FOURTH QUARTER 2015
DEFENSE FUEL SUPPORT POINT NORWALK
15306 Norwalk Boulevard
Norwalk, California

04-NDLA-013

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LIST OF ACRONYMS

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

1.0 INTRODUCTION

On behalf of our client, Defense Logistics Agency - Energy (DLA Energy), The Source Group, Inc. (SGI) presents this report to summarize remediation system operations during this reporting 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 (LARWQCB) in a letter dated May 3, 2013.

1.1 Contaminants of Concern

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

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

1.2 Remediation Technologies

The remediation technologies utilized at the Site have consisted of soil vapor extraction (SVE), groundwater extraction (GWE), biosparging, and light non-aqueous phase liquid (LNAPL) removal. The aboveground treatment of contaminated vadose zone soils excavated at the Site has also been conducted since April 2015. A summary of Site remediation wells, including well identification, well construction information, well function, and operational status, is presented in Table 1. The remediation system layout (well and piping locations) is presented in Figure 2.

1.2.1 Soil Vapor Extraction System

The SVE well network for hydrocarbon extraction from vadose zone subsurface impacts historically includes wells installed in the following areas as illustrated on Figure 2: former AST 80001 area (VEW-23), former AST 80006 and 80007 areas (VEW-20, VEW-21, VEW-22, HW-1, and HW-3), former AST 80008 area (VEW-24, VEW-25, VEW-26, VEW-27, HW-5, and HW-7), former AST 55004 area (VEW-28, VEW-29, and VEW-30), eastern boundary area (VEW-32, VEW-33, VEW-34, VEW-35, VEW-36, and VEW-37), former water tank area (VEW-31), and former truck fueling area (VW-07, VW-09, VW-10, VW-11, VW-12, VW-13, VW-14, VW-15, and VW-16).

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

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

1.2.2 Groundwater Extraction and Treatment System

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

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

1.2.3 Biosparge System

The biosparge wells for hydrocarbon removal from dissolved-phase subsurface impacts are located in areas throughout the tank farm area and eastern boundary area. The biosparge system is currently off-line due to ongoing soil cleanup activities.

1.2.4 LNAPL Removal

LNAPL removal has been conducted via manual bailing, vacuum truck, passive skimming, active pumping using a product skimming system and absorbent socks. Wells are gauged periodically and LNAPL removal is conducted based on the measured LNAPL thickness in each target well. LNAPL removal wells are identified in Section 3.3 and Tables 8a through 8g.

1.2.5 Aboveground Soil Treatment

Per SGI's *Remediation Status Report – First Quarter 2015*, dated May 1, 2015, the excavation of contaminated vadose zone soils at the Site began during January 2015 and continued during the current reporting period. Treatment is achieved via the construction of biopiles that are connected to the SVE system for SCAQMD permit compliance purposes. It is anticipated that more than 100,000 cubic yards of petroleum hydrocarbon contaminated soil will be remediated to depths up to 35 feet. The goal of this remediation is to remove source area soils that continue to contribute to the degradation of groundwater and to ready the real property of the Site for eventual conveyance.

2.0 OPERATIONS, MAINTENANCE, AND MONITORING

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

- Performed weekly maintenance and monitoring of the VES and GWETS during operation;
- Collected and analyzed VES influent and effluent vapor samples;
- Collected and analyzed GWETS influent and effluent groundwater samples; and
- Monitored aboveground soil treatment piles.

Remediation system inspections were performed on a minimum weekly basis during operation. For these inspections, vapor flow rate, vacuum, volumes of extracted groundwater, hours of operation, and other system parameters were recorded during system operation. Remediation system operations activities for the reporting period are summarized in Tables 2a, 2b, 2c, 3a, 3b, and 3c.

2.1 Soil Vapor Extraction System

The VES operated throughout the majority of the reporting period except for some brief off-line periods in mid and late October, early and mid-November, and early December 2015, to conduct routine system maintenance and/or carbon change out activities.

Performance and compliance soil vapor samples from the VES were collected during the reporting period on October 7, November 4, and December 7, 2015. The vapor samples were delivered to American Analytics, Inc. of Chatsworth, California (American) for analysis. American is a laboratory certified by the California Department of Public Health Environmental Laboratory Accreditation Program (ELAP).

The vapor samples were analyzed for the following:

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

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

2.2 Groundwater Extraction and Treatment System

The GWETS operated throughout the majority of the reporting period, and was only off-line for a significant period between October 12 and 26, 2015 to conduct groundwater monitoring and sampling work, and November 12 and 20, 2015 to conduct routine maintenance activities.

Performance and compliance water samples from the GWETS were collected during the reporting period on October 5, November 2, and December 7, 2015. The water samples were delivered to ELAP certified American for analysis.

The water samples were analyzed for the following:

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

The GWETS effluent groundwater sampling results were provided under separate cover in SGI's *Groundwater Discharge Monitoring Report*, dated January 8, 2016. A historical summary of influent water analytical sample results is provided in Table 5. The laboratory analytical reports and chain-of-custody documents for these samples are included in Appendix A.

2.3 LNAPL Removal

Depth to product (DTP) and depth to groundwater (DTW) was measured to the nearest 0.01 foot from the top of the well casing (TOC) using an interface probe in select monitoring wells. LNAPL was removed from select wells via manually bailing, active pumping using a product skimming system and by utilizing absorbent socks installed in select wells. LNAPL gauging results and estimated mass and volume removal are summarized in Tables 8a through 8g.

2.4 Aboveground Soil Treatment

Soil biopiles were initially connected to the VES and brought online April 24, 2015 following the completion of aboveground treatment cell construction activities. Biopile OM&M continued throughout the current reporting period. Details associated with the OM&M of the biopiles are provided in Tables 3a through 3c. Further details regarding treatment cell construction and

excavated soil cleanup activities are provided in SGI's Quarter 4, 2015 *Waste Discharge Requirements Progress Report*.

3.0 SUMMARY OF REMEDIATION PROGRESS

The following sections describe remedial progress at the Site.

3.1 Soil Vapor Extraction System

During the reporting period, the VES extracted soil vapors from three of the four horizontal wells that span through the entire former tank farm area (HW-1, HW-3, HW-5), and two vertical wells in the northeastern area (VEW-32 and VEW-33), and ex-situ biopiles from vadose zone soil excavation and treatment activities. Extraction from other existing vapor extraction wells was not conducted based on field and/or laboratory data presented herein. The total mass of VOCs removed via SVE during this quarter (Fourth Quarter 2015) period was approximately 4,921 pounds and approximately 2,942,798 pounds since April 1996 (Tables 3a, 3b, and 3c). The total mass removed by SVE does not include the mass removed in-situ via biodegradation.

3.2 Groundwater Extraction and Treatment System

During the reporting period, the GWETS extracted groundwater from the northwest (GW-2 and GW-13) and northeast (GW-15 and GW-16) areas of the Site. The total volume of groundwater extracted by the GWETS this quarter was approximately 439,034 gallons and approximately 73,859,728 gallons since April 1996. Based on the TPHd results for influent water samples and total groundwater extracted, the mass of TPHd removed by GWE was approximately 1.3 pounds (Table 2c) this quarter and approximately 9,938 pounds since April 1996 (Table 2c).

3.3 LNAPL Removal

During the reporting period, DTW and DTP was measured in GMW-62 located off site in Holifield Park and GMW-21, TF-18, TF-19 and GMW-7. LNAPL was removed via manual bailing, active pumping using a product skimming system and by utilizing absorbent socks installed in select wells. Approximately 101.2 gallons (692 pounds) of LNAPL was recovered from the Site this quarter (Tables 8a through 8g).

3.4 Aboveground Soil Treatment

A total of 23 new biopiles were brought online during the reporting period with six of these piles being taken off-line by the end of the quarter based on confirmation of treatment to below the SCAQMD permit required limit for active SVE. Upon completion of biological treatment, the appropriate soil piles will be properly backfilled and compacted at the Site following confirmation of cleanup via soil sampling and LARWQCB approval to proceed.

4.0 SYSTEM EVALUATION AND OPTIMIZATION

Remedial system optimization is ongoing to ensure most effective operation for cleanup at the Site.

For the VES, vapor-phase VOC concentrations from the horizontal and vertical wells remained relatively stable this quarter with wells HW-7, and VEW-34 through VEW-37 being left off-line based on continued low/asymptotic field readings (Table 6) confirmed via August 2015 analytical sampling results (Table 7).

Ex-situ soil biopile VOC concentrations exhibited an overall increasing trend during the majority of the reporting period with more dilution air generally being required to balance the system through approximately mid-December 2015 (concentrations subsequently declined during the last few weeks of the quarter). This is largely due to the relatively high number of biopiles that were brought online as initial concentrations tend to be higher for at least a few weeks subsequent to connecting a given biopile to the system. As indicated on Tables 3a through 3c, individual well and biopile vapor concentrations were measured with an organic vapor analyzer (OVA) in an effort to optimize system performance. SGI will continue to monitor individual well and biopile influent vapor concentrations, and modify which wells/biopiles are online along with adjusting valve positions, as necessary.

As indicated by the non-detect, stable, or declining dissolved groundwater analytical data from off-site wells (as illustrated in previous semiannual groundwater monitoring reports) and from the previous aquifer pump testing and groundwater capture zone analysis, the current GWETS with wells in the northeast area and northwest corner have been successful in preventing further impacted groundwater from flowing off site and have captured and treated a significant portion of impacted groundwater under Holifield Park and in the northwest corner. The overall area of impacts and plumes were also similar to previous events. GWE in the northwest and northeast areas will continue to assist with contaminant containment. Additionally, absorbent sock installation and LNAPL recovery via pumping and/or manual bailing will continue, as needed.

5.0 PLANNED FIRST QUARTER 2016 ACTIVITIES

During the next reporting period, DLA Energy plans to continue to focus in-situ remedial efforts on the northwest, northeast, and north-central areas of the Site along with conducting further ex-situ soil treatment. Following is a summary of planned First Quarter 2016 OM&M activities:

- Continue weekly maintenance and monitoring of the VES and GWETS;
- Measure individual well vapor concentrations with an OVA;
- Collect individual well vapor samples for laboratory analysis;
- Continue regular LNAPL gauging and product removal activities;
- Review LNAPL gauging and removal data to optimize removal methods;
- Collect and analyze system influent and effluent vapor and groundwater samples;
- Continue to evaluate GWE flow rates and confirm contaminant containment;
- Continue on-site soil excavation, treatment cell construction and ex-situ biopile remediation;
- Continue backfilling/compacting appropriate biopiles following confirmation of soil cleanup goals and LARWQCB approval to proceed; and
- Evaluate re-implementation of the biosparge system upon completion of soil cleanup activities.

Ongoing remediation activities and progress will be described in the *First Quarter 2016 Remediation Progress Report* to be submitted by May 15, 2016.

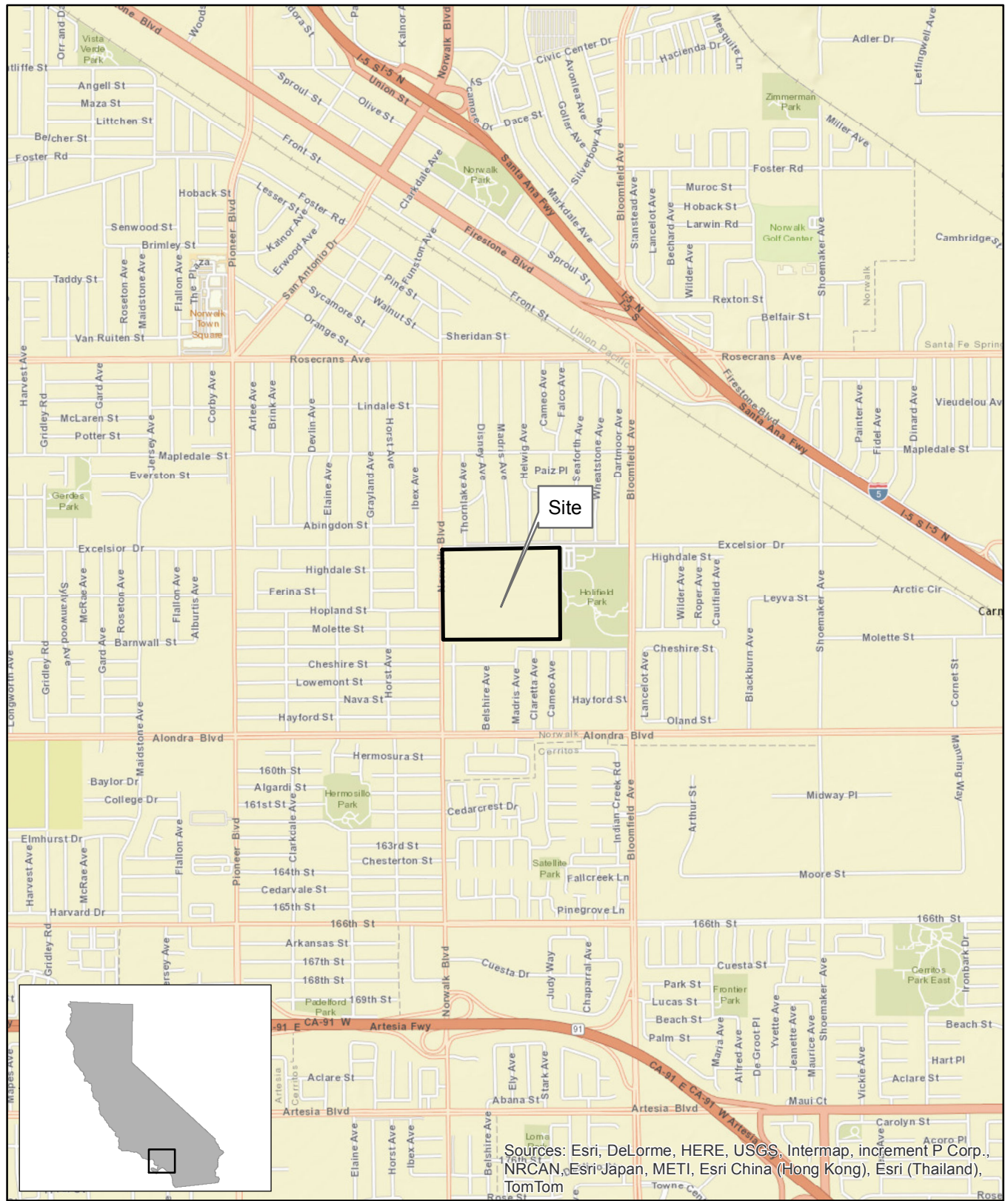
6.0 LIMITATIONS

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

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

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

FIGURES

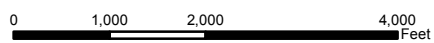


Sources: Esri, DeLorme, HERE, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom

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

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

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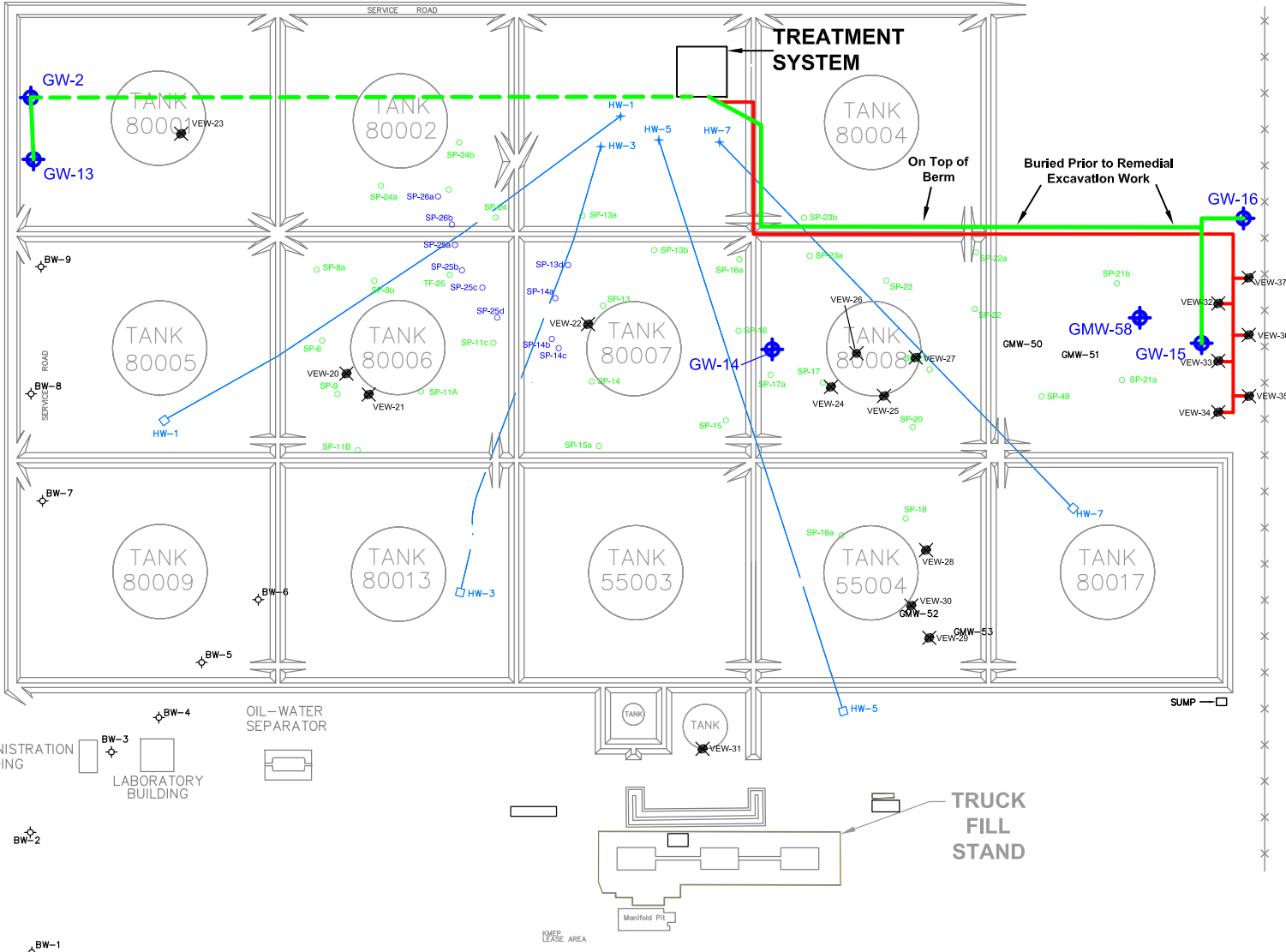
SGI THE SOURCE GROUP, INC.
environmental
1962 FREEMAN AVENUE
SIGNAL HILL, CA 90755
(562) 597-1055

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

SITE LOCATION MAP

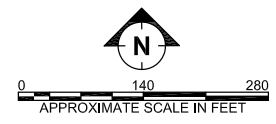
GIS_MAPPING (\\SUPER_COMPY) (C:\DLA-Norwalk\CAD\Remediation System Layout (2007 ver) updated 08052015.dwg

EXCELSIOR DRIVE



LEGEND

- VEW-20 ✖ VAPOR EXTRACTION WELL
- GW-13 ◊ GROUNDWATER EXTRACTION WELL
- BSP-1 ○ BIOSPARGE POINTS
- SP-26a ○ SPARGE POINTS INSTALLED IN AUGUST 2004
- SP-8a ○ TOTAL FLUIDS AND SPARGE POINTS
- ABOVE GRADE GROUNDWATER EXTRACTION SYSTEM PIPING
- - - - - BELOW GRADE GROUNDWATER EXTRACTION SYSTEM PIPING
- ABOVE GRADE VAPOR EXTRACTION SYSTEM PIPING
- HW-7 BELOW GRADE HORIZONTAL VAPOR EXTRACTION SYSTEM PIPING



SITE MAP SHOWING REMEDIATION WELL AND PIPING LOCATIONS

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

	DATE	DRAWN BY:	APP. BY:
04-NDLA-007	08/03/2015	S. MCDOWELL	KEN W.

SGI THE SOURCE GROUP, Inc.
environmental
1962 FREEMAN AVENUE
SIGNAL HILL, CA 90755

FIGURE
2

TABLES

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

Remediation Area	Well	Notes	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function
North-West (AST 80001)	GW-1		06/12/95	75.97	63	25 - 60	GWE
	GW-2		06/12/95	75.78	63	25 - 60	GWE
	GW-3		06/13/95	75.79	63	25 - 60	GWE
	GW-4		06/12/95	75.78	63	25 - 60	GWE
	GW-13		04/26/07	76.85	67	25 - 65	GWE
	VEW-23		08/03/04	76.20	25	15 - 25	SVE
North-Central (AST 80002, AST 80004, AST 80006, AST 80007, AST 80008, AST 8001, AST 55004)	HW-1		--	--	25	Continuous	SVE
	HW-3		--	--	25	Continuous	SVE
	HW-5		--	--	25	Continuous	SVE
	HW-7		--	--	25	Continuous	SVE
	GMW-21	1	08/02/91	76.23	50	25 - 50	TFE/GWE
	GW-14		04/26/07	76.54	67	25 - 65	GWE
	SP-8		--	--	50	48 - 50	Biosparge
	SP8a		--	--	50	48 - 50	Biosparge
	SP-8b		--	--	50	48 - 50	Biosparge
	SP-9		--	--	50	48 - 50	Biosparge
	SP-11		--	--	50	48 - 50	Biosparge
	SP-11a		--	--	50	48 - 50	Biosparge
	SP-11b		--	--	50	48 - 50	Biosparge
	SP-11c		--	--	50	48 - 50	Biosparge
	SP-13		--	--	50	48 - 50	Biosparge
	SP-13a		--	--	50	48 - 50	Biosparge
	SP-13b		--	--	50	48 - 50	Biosparge
	SP-13c		--	--	50	48 - 50	Biosparge
	SP-13d		--	--	50	48 - 50	Biosparge
	SP-14		--	--	50	48 - 50	Biosparge
	SP-14a		--	--	50	48 - 50	Biosparge
	SP-14b		--	--	50	48 - 50	Biosparge
	SP-14c		--	--	50	48 - 50	Biosparge
	SP-15		--	--	50	48 - 50	Biosparge
	SP-15a		--	--	50	48 - 50	Biosparge
	SP-16		--	--	50	48 - 50	Biosparge
	SP-17		--	--	50	48 - 50	Biosparge
	SP-17a		--	--	50	48 - 50	Biosparge
	SP-18		--	--	50	48 - 50	Biosparge
	SP-18a		--	--	50	48 - 50	Biosparge
	SP-20		--	--	50	48 - 50	Biosparge
	SP-20a		--	--	50	48 - 50	Biosparge
SP-21		--	--	50	48 - 50	Biosparge	
SP-22		--	--	50	48 - 50	Biosparge	

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

Remediation Area	Well	Notes	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function	
North-Central (AST 80002, AST 80004, AST 80006, AST 80007, AST 80008, AST 8001, AST 55004)	SP-23		--	--	50	48 - 50	Biosparge	
	SP-23a		--	--	50	48 - 50	Biosparge	
	SP-23b		--	--	50	48 - 50	Biosparge	
	SP-23c		--	--	50	48 - 50	Biosparge	
	SP-24		--	--	50	48 - 50	Biosparge	
	SP-24a		--	--	50	48 - 50	Biosparge	
	SP-24b		--	--	50	48 - 50	Biosparge	
	SP-24c		--	--	50	48 - 50	Biosparge	
	SP-25		--	--	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
	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	73.94	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		2	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
VEW-20			08/02/04	75.95	25	15 - 25	SVE	
VEW-21			08/02/04	75.75	25	15 - 25	SVE	
VEW-22			08/02/04	77.09	20	10 - 20	SVE	
VEW-24			08/02/04	76.13	25	15 - 25	SVE	
VEW-25			08/02/04	76.14	25	15 - 25	SVE	
VEW-26			08/04/04	77.50	25	15 - 25	SVE	
VEW-27			08/04/04	77.07	25	15 - 25	SVE	
VEW-28			08/03/04	75.67	25	10 - 25	SVE	
VEW-29			08/03/04	75.25	25	10 - 25	SVE	
VEW-30			08/03/04	75.65	25	10 - 25	SVE	

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

Remediation Area	Well	Notes	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function
North-East	BSP-1		04/18/07	--	50	47 - 49	Biosparge
	BSP-2		04/18/07	--	50	48 - 50	Biosparge
	BSP-3		04/17/07	--	48	46 - 48	Biosparge
	BSP-4		04/17/07	--	49	47 - 49	Biosparge
	BSP-5		04/17/07	--	49.5	47 - 49	Biosparge
	BSP-6		04/18/07	--	49	47 - 49	Biosparge
	BSP-7		04/19/07	--	48	46 - 48	Biosparge
	BSP-8		04/19/07	--	48	46 - 48	Biosparge
	BSP-9		04/19/07	--	48	46 - 48	Biosparge
	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
	SP-21a		--	--	50	48 - 50	Biosparge
	SP-21b		--	--	50	48 - 50	Biosparge
	SP-48		--	--	50	48 - 50	Biosparge
	VEW-32		04/11/07	--	25	10 - 25	SVE
	VEW-33		04/11/07	--	25	10 - 25	SVE
	VEW-34		04/11/07	--	25	10 - 25	SVE
	VEW-35		04/10/07	--	25	10 - 25	SVE
VEW-36		04/10/07	--	25	10 - 25	SVE	
VEW-37		40/10/07	--	25	10 - 25	SVE	
Former Truck Fueling Area and Adjacent Water Tank Area	VEW-31		08/03/04	75.10	15	5 - 15	SVE
	VW-07		--	75.64	--	--	SVE
	VW-09		--	75.77	--	--	SVE
	VW-10		03/23/04	75.78	30.5	20 - 30	SVE
	VW-11		03/23/04	75.55	25	20 - 25	SVE
	VW-12		03/23/04	75.79	30.5	15 - 30	SVE
	VW-13		03/23/04	75.42	29	25 - 29	SVE
	VW-14		03/23/04	75.89	28	15 - 28	SVE
	VW-15		04/14/04	75.45	30	20 - 30	SVE
VW-16		04/14/04	75.29	30	20 - 30	SVE	

Legend/Notes :

ft msl = Feet above mean sea level

ft bgs = Feet below ground surface

AST = Aboveground storage tank

GWE = Groundwater extraction

SVE = Soil vapor extraction

TFE = Total fluids extraction

-- = Information not available

1 = Also referred to as TF-24.

2 = Also referred to as "old TF-24" or "former TF-24".

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

Date	Data Source	Notes	GW-2 Totalizer Reading (gallons)	GW-13 Totalizer Reading (gallons)	GW-15 Totalizer Reading (gallons)	GW-16 Totalizer Reading (gallons)	Groundwater Extracted from North-East Area (gallons)	Groundwater Extracted from North-West Area (gallons)	NPDES Discharge Totalizer Reading (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed ^A (lb)
10/01/15	*		251,884	3,110,192	1,362,951	7,085,571	8,448,522	3,362,076	73,431,749	--	9,937
10/02/15	Technician		255,258	3,112,832	1,364,871	7,087,914	8,452,785	3,368,090	73,440,385	--	9,937
10/03/15	*		259,535	3,116,184	1,367,722	7,090,821	8,458,542	3,375,720	73,450,731	--	9,937
10/04/15	*		263,812	3,119,537	1,370,572	7,093,727	8,464,299	3,383,349	73,461,077	--	9,937
10/05/15	Technician	1	268,936	3,123,553	1,373,987	7,097,209	8,471,196	3,392,489	73,473,470	30	9,937
10/06/15	*		273,255	3,126,973	1,377,118	7,100,182	8,477,300	3,400,228	73,484,015	--	9,937
10/07/15	*		277,574	3,130,392	1,380,249	7,103,156	8,483,405	3,407,966	73,494,559	--	9,937
10/08/15	*		281,893	3,133,812	1,383,380	7,106,129	8,489,509	3,415,705	73,505,104	--	9,937
10/09/15	Technician		285,672	3,136,804	1,386,119	7,108,731	8,494,850	3,422,476	73,514,330	--	9,937
10/10/15	*		288,839	3,140,357	1,388,938	7,111,589	8,500,527	3,429,196	73,523,755	--	9,937
10/11/15	*		292,006	3,143,911	1,391,758	7,114,446	8,506,204	3,435,917	73,533,180	--	9,937
10/12/15	Technician	2	295,635	3,147,982	1,394,988	7,117,721	8,512,709	3,443,617	73,543,980	--	9,937
10/13/15	Off line		295,635	3,147,982	1,394,988	7,117,721	8,512,709	3,443,617	73,543,980	--	9,937
10/14/15	Off line		295,635	3,147,982	1,394,988	7,117,721	8,512,709	3,443,617	73,543,980	--	9,937
10/15/15	Off line		295,635	3,147,982	1,394,988	7,117,721	8,512,709	3,443,617	73,543,980	--	9,937
10/16/15	Off line		295,635	3,147,982	1,394,988	7,117,721	8,512,709	3,443,617	73,543,980	--	9,937
10/17/15	Off line		295,635	3,147,982	1,394,988	7,117,721	8,512,709	3,443,617	73,543,980	--	9,937
10/18/15	Off line		295,635	3,147,982	1,394,988	7,117,721	8,512,709	3,443,617	73,543,980	--	9,937
10/19/15	Off line		295,635	3,147,982	1,394,988	7,117,721	8,512,709	3,443,617	73,543,980	--	9,937
10/20/15	Off line		295,635	3,147,982	1,394,988	7,117,721	8,512,709	3,443,617	73,543,980	--	9,937
10/21/15	Off line		295,635	3,147,982	1,394,988	7,117,721	8,512,709	3,443,617	73,543,980	--	9,937
10/22/15	Off line		295,635	3,147,982	1,394,988	7,117,721	8,512,709	3,443,617	73,543,980	--	9,937
10/23/15	Off line		295,635	3,147,982	1,394,988	7,117,721	8,512,709	3,443,617	73,543,980	--	9,937
10/24/15	Off line		295,635	3,147,982	1,394,988	7,117,721	8,512,709	3,443,617	73,543,980	--	9,937
10/25/15	Off line		295,635	3,147,982	1,394,988	7,117,721	8,512,709	3,443,617	73,543,980	--	9,937
10/26/15	Technician	3	295,635	3,147,982	1,394,988	7,117,721	8,512,709	3,443,617	73,543,980	--	9,937
10/27/15	*		298,744	3,151,649	1,395,215	7,117,988	8,513,203	3,450,393	73,548,551	--	9,937
10/28/15	Technician	4	302,705	3,156,323	1,395,505	7,118,328	8,513,833	3,459,028	73,554,375	--	9,937
10/29/15	*		306,081	3,160,329	1,398,700	7,120,448	8,519,148	3,466,410	73,565,044	--	9,937
10/30/15	Technician	4	309,469	3,164,349	1,401,907	7,122,575	8,524,482	3,473,818	73,575,750	--	9,937
10/31/15	*		312,914	3,168,510	1,405,531	7,125,924	8,531,455	3,481,424	73,586,263	--	9,937

Cumulative Groundwater Discharged by the GWETS to Date (gallons)							
Period	October	Quarter 1, 2015	Quarter 2, 2015	Quarter 3, 2015	Quarter 4, 2015	2015 to Date	April 1996 to Date
Volume	165,568	342,827	528,279	711,274	165,568	1,747,948	73,586,263

Cumulative Mass DRO Removed by the GWETS ^A (lb)			
Period	October	Quarter 4 to Date	April 1996 to Date
Mass	0.1	0.1	9,937.1

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

Legend / Notes:

- 1 = Collected monthly process, intermediate and effluent water samples for laboratory analysis.
- 2 = GWETS manually shut down in advance of groundwater monitoring and sampling activities.
- 3 = GWETS restarted following completion of groundwater monitoring and sampling activities.
- 4 = Conducted GW-15 and/or GW-16 pump repair work.

- GWETS = Groundwater extraction and treatment system
- lb = Pounds
- ug/L - Micrograms per liter
- DRO = Diesel range organics
- A = Hydrocarbon removal is calculated using analytical laboratory results for DRO (if not detected, half the detection limit is used) from sample collected on: 10/05/15 (laboratory report attached).
- = Not applicable
- * = Operational values interpolated from chart recorder data or previous monitoring event.

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

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

Date	Data Source	Notes	GW-2 Totalizer Reading (gallons)	GW-13 Totalizer Reading (gallons)	GW-15 Totalizer Reading (gallons)	GW-16 Totalizer Reading (gallons)	Groundwater Extracted from North-East Area (gallons)	Groundwater Extracted from North-West Area (gallons)	NPDES Discharge Totalizer Reading (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed ^A (lb)
11/01/15	*		316,359	3,172,672	1,409,155	7,129,272	8,538,427	3,489,031	73,596,775	--	9,937
11/02/15	Technician	1,2	319,421	3,176,371	1,412,376	7,132,249	8,544,625	3,495,792	73,606,120	420	9,937
11/03/15	*		322,828	3,180,488	1,416,539	7,135,543	8,552,082	3,503,317	73,617,322	--	9,937
11/04/15	*		326,236	3,184,606	1,420,701	7,138,838	8,559,539	3,510,842	73,628,523	--	9,937
11/05/15	Technician		330,069	3,189,238	1,425,384	7,142,544	8,567,928	3,519,307	73,641,125	--	9,937
11/06/15	*		331,622	3,191,201	1,425,421	7,143,021	8,568,442	3,522,823	73,643,569	--	9,937
11/07/15	*		333,175	3,193,164	1,425,457	7,143,498	8,568,955	3,526,339	73,646,013	--	9,937
11/08/15	*		334,728	3,195,127	1,425,494	7,143,975	8,569,469	3,529,855	73,648,457	--	9,937
11/09/15	*		336,281	3,197,090	1,425,531	7,144,452	8,569,983	3,533,371	73,650,901	--	9,937
11/10/15	*		337,834	3,199,053	1,425,567	7,144,929	8,570,496	3,536,887	73,653,345	--	9,937
11/11/15	*		339,387	3,201,016	1,425,604	7,145,406	8,571,010	3,540,403	73,655,789	--	9,937
11/12/15	Technician	3	340,487	3,202,406	1,425,630	7,145,744	8,571,374	3,542,893	73,657,520	--	9,937
11/13/15	Off line		340,487	3,202,406	1,425,630	7,145,744	8,571,374	3,542,893	73,657,520	--	9,937
11/14/15	Off line		340,487	3,202,406	1,425,630	7,145,744	8,571,374	3,542,893	73,657,520	--	9,937
11/15/15	Off line		340,487	3,202,406	1,425,630	7,145,744	8,571,374	3,542,893	73,657,520	--	9,937
11/16/15	Off line		340,487	3,202,406	1,425,630	7,145,744	8,571,374	3,542,893	73,657,520	--	9,937
11/17/15	Off line		340,487	3,202,406	1,425,630	7,145,744	8,571,374	3,542,893	73,657,520	--	9,937
11/18/15	Off line		340,487	3,202,406	1,425,630	7,145,744	8,571,374	3,542,893	73,657,520	--	9,937
11/19/15	Off line		340,487	3,202,406	1,425,630	7,145,744	8,571,374	3,542,893	73,657,520	--	9,937
11/20/15	Technician	4	340,487	3,202,406	1,425,630	7,145,744	8,571,374	3,542,893	73,657,520	--	9,937
11/21/15	*		341,281	3,203,388	1,426,450	7,146,654	8,573,104	3,544,669	73,659,941	--	9,937
11/22/15	*		342,075	3,204,371	1,427,269	7,147,564	8,574,833	3,546,445	73,662,362	--	9,937
11/23/15	*		342,868	3,205,353	1,428,089	7,148,474	8,576,563	3,548,221	73,664,782	--	9,937
11/24/15	*		343,662	3,206,335	1,428,909	7,149,384	8,578,293	3,549,997	73,667,203	--	9,937
11/25/15	Technician		344,679	3,207,594	1,429,959	7,150,550	8,580,509	3,552,273	73,670,305	--	9,937
11/26/15	*		347,084	3,210,563	1,432,551	7,153,427	8,585,978	3,557,646	73,678,186	--	9,937
11/27/15	*		349,489	3,213,531	1,435,142	7,156,304	8,591,446	3,563,020	73,686,068	--	9,937
11/28/15	*		351,893	3,216,500	1,437,734	7,159,181	8,596,915	3,568,393	73,693,949	--	9,937
11/29/15	*		354,298	3,219,468	1,440,326	7,162,058	8,602,384	3,573,766	73,701,831	--	9,937
11/30/15	*		356,703	3,222,437	1,442,918	7,164,935	8,607,853	3,579,140	73,709,712	--	9,938

Cumulative Groundwater Discharged by the GWETS (gallons)							
Period	November	Quarter 1, 2015	Quarter 2, 2015	Quarter 3, 2015	Quarter 4, 2015	2015 to Date	April 1996 to Date
Volume	123,449	342,827	528,279	711,274	289,018	1,871,397	73,709,712

Cumulative Mass DRO Removed by the GWETS ^A (lb)			
Period	November	Quarter 4 to Date	April 1996 to Date
Mass	0.4	0.5	9,937.5

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

Legend / Notes:

- 1 = Collected monthly process, intermediate and effluent water samples for laboratory analysis.
- 2 = Collected annual effluent water samples for laboratory analysis.
- 3 = GWETS manually shut down for maintenance.
- 4 = GWETS restarted.

GWETS = Groundwater extraction and treatment system lb = Pounds
 ug/L - Micrograms per liter DRO = Diesel range organics
 A = Hydrocarbon removal is calculated using analytical laboratory results for DRO (if not detected, half the detection limit is used)
 from samples collected on: 10/05/15 and 11/02/15 (laboratory reports attached).
 -- = Not applicable
 * = Operational values interpolated from chart recorder data or previous monitoring event.

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

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

Date	Data Source	Notes	GW-2 Totalizer Reading (gallons)	GW-13 Totalizer Reading (gallons)	GW-15 Totalizer Reading (gallons)	GW-16 Totalizer Reading (gallons)	Groundwater Extracted from North-East Area (gallons)	Groundwater Extracted from North-West Area (gallons)	NPDES Discharge Totalizer Reading (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed ^A (lb)
12/01/15	*		359,108	3,225,405	1,445,509	7,167,812	8,613,321	3,584,513	73,717,594	--	9,938
12/02/15	Technician	1	361,513	3,228,374	1,448,101	7,170,689	8,618,790	3,589,887	73,725,475	--	9,938
12/03/15	*		364,738	3,232,023	1,448,101	7,170,689	8,618,790	3,596,761	73,728,601	--	9,938
12/04/15	Technician	2	367,627	3,235,292	1,448,101	7,170,689	8,618,790	3,602,919	73,731,402	--	9,938
12/05/15	*		369,795	3,237,742	1,451,014	7,173,107	8,624,121	3,607,538	73,738,837	--	9,938
12/06/15	*		371,964	3,240,193	1,453,927	7,175,524	8,629,451	3,612,156	73,746,272	--	9,938
12/07/15	Technician	3	373,884	3,242,362	1,456,506	7,177,665	8,634,171	3,616,246	73,752,855	710	9,938
12/08/15	*		376,054	3,244,792	1,459,599	7,180,157	8,639,756	3,620,846	73,761,389	--	9,938
12/09/15	*		378,224	3,247,222	1,462,691	7,182,649	8,645,340	3,625,446	73,769,922	--	9,938
12/10/15	Technician		380,552	3,249,829	1,466,009	7,185,323	8,651,332	3,630,381	73,779,078	--	9,938
12/11/15	*		382,142	3,251,567	1,468,551	7,187,199	8,655,750	3,633,709	73,785,416	--	9,938
12/12/15	*		383,732	3,253,305	1,471,094	7,189,074	8,660,168	3,637,037	73,791,755	--	9,938
12/13/15	*		385,322	3,255,043	1,473,636	7,190,950	8,664,586	3,640,365	73,798,093	--	9,938
12/14/15	*		386,913	3,256,781	1,476,178	7,192,826	8,669,004	3,643,693	73,804,431	--	9,938
12/15/15	*		388,503	3,258,519	1,478,720	7,194,701	8,673,422	3,647,022	73,810,769	--	9,938
12/16/15	Technician		390,275	3,260,456	1,481,554	7,196,792	8,678,346	3,650,731	73,817,834	--	9,938
12/17/15	*		391,775	3,262,080	1,483,594	7,199,054	8,682,647	3,653,855	73,819,080	--	9,938
12/18/15	*		393,276	3,263,703	1,485,633	7,201,315	8,686,948	3,656,979	73,820,325	--	9,938
12/19/15	*		394,776	3,265,327	1,487,673	7,203,577	8,691,250	3,660,103	73,821,571	--	9,938
12/20/15	*		396,277	3,266,951	1,489,713	7,205,838	8,695,551	3,663,228	73,822,816	--	9,938
12/21/15	*		397,777	3,268,574	1,491,752	7,208,100	8,699,852	3,666,352	73,824,062	--	9,938
12/22/15	*		399,278	3,270,198	1,493,792	7,210,361	8,704,153	3,669,476	73,825,307	--	9,938
12/23/15	*		400,778	3,271,821	1,495,832	7,212,623	8,708,454	3,672,600	73,826,553	--	9,938
12/24/15	*		402,279	3,273,445	1,497,871	7,214,884	8,712,756	3,675,724	73,827,798	--	9,938
12/25/15	*		403,779	3,275,069	1,499,911	7,217,146	8,717,057	3,678,848	73,829,044	--	9,938
12/26/15	*		405,280	3,276,692	1,501,951	7,219,407	8,721,358	3,681,972	73,830,289	--	9,938
12/27/15	*		406,780	3,278,316	1,503,990	7,221,669	8,725,659	3,685,097	73,831,535	--	9,938
12/28/15	Technician		408,406	3,280,075	1,506,200	7,224,119	8,730,319	3,688,481	73,832,884	--	9,938
12/29/15	*		411,221	3,283,089	1,507,814	7,228,180	8,735,994	3,694,310	73,842,335	--	9,938
12/30/15	*		414,035	3,286,104	1,509,427	7,232,241	8,741,669	3,700,139	73,851,786	--	9,938
12/31/15	Technician		416,400	3,288,637	1,510,783	7,235,654	8,746,437	3,705,037	73,859,728	--	9,938

Cumulative Groundwater Discharged by the GWETS (gallons)							
Period	December	Quarter 1, 2015	Quarter 2, 2015	Quarter 3, 2015	Quarter 4, 2015	2015 to Date	April 1996 to Date
Volume	150,016	342,827	528,279	711,274	439,034	2,021,413	73,859,728

Cumulative Mass DRO Removed by the GWETS ^A (lb)			
Period	December	Quarter 4 to Date	April 1996 to Date
Mass	0.8	1.3	9,938.3

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

Legend / Notes:

- 1 = GW-15 and GW-16 manually shutdown to conduct discharge line repair work.
- 2 = GW-15 and GW-16 restarted following completion of discharge line repair work.
- 3 = Collected monthly influent, intermediate, and effluent water samples for laboratory analysis.

GWETS = Groundwater extraction and treatment system lb = Pounds
 ug/L - Micrograms per liter DRO = Diesel range organics
 A = Hydrocarbon removal is calculated using analytical laboratory results for DRO (if not detected, half the detection limit is used) from samples collected on: 11/02/15 and 12/07/15 (laboratory reports attached).

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

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

TABLE 3a
Soil Vapor Extraction System Summary of Operations - October
 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 with Dilution (ppmv)	Field Process Concentration with Dilution ^{B,C} (ppmv)	Field Effluent Concentration ^{B,C} (ppmv)	Cumulative Vapor-Phase GRO Removed ^D (lb)
10/01/15	Technician	1	31,780	594	1	99	--	435	0.2	2,937,894
10/02/15	Technician	2	31,804	600	1	88	--	326	0.0	2,937,942
10/03/15	*		31,828	600	--	--	--	--	--	2,937,990
10/04/15	*		31,852	600	--	--	--	--	--	2,938,038
10/05/15	Technician	2,3	31,875	625	1	98	--	293	0.1	2,938,089
10/06/15	*		31,899	625	--	--	--	--	--	2,938,139
10/07/15	Technician	4	31,924	622	1	98	230	256	0.2	2,938,191
10/08/15	*		31,948	622	--	--	--	--	--	2,938,244
10/09/15	Technician	3,5	31,972	605	1	101	--	429	0.2	2,938,295
10/10/15	*		31,996	605	--	--	--	--	--	2,938,346
10/11/15	Technician		32,020	602	1	90	--	335	0.0	2,938,397
10/12/15	Technician	3	32,044	612	1	108	--	303	0.0	2,938,449
10/13/15	*		32,068	612	--	--	--	--	--	2,938,500
10/14/15	Technician	2,3	32,092	615	1	106	--	312	1.1	2,938,552
10/15/15	*		32,116	615	--	--	--	--	--	2,938,604
10/16/15	Technician	3	32,139	607	1	102	--	477	1.3	2,938,655
10/17/15	Technician	6	32,156	620	1	102	--	463	4.2	2,938,688
10/18/15	Off line		32,156	NA	--	--	--	--	--	2,938,688
10/19/15	Technician	7	32,173	625	1	87	--	295	4.6	2,938,726
10/20/15	*		32,197	625	--	--	--	--	--	2,938,778
10/21/15	Technician	2,3	32,220	621	1	84	--	314	9.3	2,938,831
10/22/15	Technician	8	32,236	621	1	84	--	320	0.0	2,938,883
10/23/15	Technician		32,260	625	1	92	--	395	0.0	2,938,936
10/24/15	*		32,284	625	--	--	--	--	--	2,938,989
10/25/15	Technician		32,308	618	1	100	--	391	0.0	2,939,041
10/26/15	Technician	3	32,332	623	1	112	--	303	0.0	2,939,094
10/27/15	*		32,356	623	--	--	--	--	--	2,939,147
10/28/15	Technician	2,3	32,380	625	1	98	--	322	0.0	2,939,199
10/29/15	*		32,404	625	--	--	--	--	--	2,939,252
10/30/15	Technician	9	32,420	632	1	102	--	334	0.4	2,939,288
10/31/15	Off line		32,420	NA	--	--	--	--	--	2,939,288

Cumulative Mass TPHg Removed by the VES ^D (lb)			
Period	October	Quarter 4 to Date	April 1996 to Date
Mass	1,410	1,410	2,939,288

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

Legend / Notes:

- 1 = VES restarted (manually shutdown on 9/30/15) following completion of carbon change out work.
- 2 = Select soil biopiles brought online and/or taken off-line.
- 3 = Measured individual soil biopile vapor concentrations with an OVA.
- 4 = Collected monthly influent, after GAC-1, after GAC-2, and effluent samples for laboratory analysis.
- 5 = Measured individual well vapor concentrations with an OVA.
- 6 = VES manually shut down for maintenance.
- 7 = VES restarted following completion of maintenance work.
- 8 = VES temporarily off-line for 8 hours to conduct carbon change out work.
- 9 = VES manually shut down in advance of scheduled carbon change out work.

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

- A = Reading from chart recorder.
- B = Concentrations obtained with a calibrated organic vapor analyzer (OVA).
- C = Concentrations correlated to laboratory data and expressed as hexane.
- D = Hydrocarbon removal is calculated using analytical laboratory result for GRO (if not detected, half the detection limit is used) from sample collected on: 10/07/15 (laboratory report attached).
- = Not applicable or not measured
- * = Operational values interpolated from chart recorder data or previous monitoring event.

Vapor extraction wells on line this month: VEW-32, VEW-33, HW-1, HW-3, HW-5
 Soil biopiles on line this month: Powerine E-SP-01 through G-SP-01 and J-SP-01, 80002-F-SP-01 through I-SP-01, and 80004 B-SP-01 through H-SP-01, and 80006 C-SP-01, D-SP-01 and G-SP-01 through L-SP-01, and 80013 A-SP-01 through E-SP-01

TABLE 3b
Soil Vapor Extraction System Summary of Operations - November
 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 with Dilution (ppmv)	Field Process Concentration with Dilution ^{B,C} (ppmv)	Field Effluent Concentration ^{B,C} (ppmv)	Cumulative Vapor-Phase GRO Removed ^D (lb)
11/01/15	Off line		32,420	NA	--	--	--	--	--	2,939,288
11/02/15	Off line		32,420	NA	--	--	--	--	--	2,939,288
11/03/15	Technician	1	32,432	621	1	96	--	311	0.0	2,939,314
11/04/15	Technician	2,3	32,456	610	1	88	290	300	0.0	2,939,380
11/05/15	Technician	2,4,5	32,464	601	1	98	--	360	0.0	2,939,399
11/06/15	Off line		32,464	NA	--	--	--	--	--	2,939,399
11/07/15	Off line		32,464	NA	--	--	--	--	--	2,939,399
11/08/15	Off line		32,464	NA	--	--	--	--	--	2,939,399
11/09/15	Off line		32,464	NA	--	--	--	--	--	2,939,399
11/10/15	Off line		32,464	NA	--	--	--	--	--	2,939,399
11/11/15	Off line		32,464	NA	--	--	--	--	--	2,939,399
11/12/15	Off line		32,464	NA	--	--	--	--	--	2,939,399
11/13/15	Technician	2,6	32,472	605	1	92	--	302	0.0	2,939,421
11/14/15	*		32,496	605	--	--	--	--	--	2,939,486
11/15/15	*		32,520	605	--	--	--	--	--	2,939,551
11/16/15	Technician		32,544	612	1	85	--	306	0.0	2,939,617
11/17/15	*		32,568	612	--	--	--	--	--	2,939,683
11/18/15	Technician	2,4,7	32,582	606	1	94	--	326	0.0	2,939,749
11/19/15	*		32,606	606	--	--	--	--	--	2,939,814
11/20/15	Technician	2,4	32,630	612	1	92	--	358	0.0	2,939,880
11/21/15	*		32,654	612	--	--	--	--	--	2,939,946
11/22/15	Technician		32,678	614	1	108	--	398	0.0	2,940,012
11/23/15	Technician		32,702	620	1	100	--	396	0.0	2,940,079
11/24/15	*		32,726	620	--	--	--	--	--	2,940,146
11/25/15	Technician	7	32,745	611	1	84	--	378	0.0	2,940,212
11/26/15	*		32,769	611	--	--	--	--	--	2,940,278
11/27/15	Technician		32,793	618	1	72	--	356	0.0	2,940,345
11/28/15	*		32,817	618	--	--	--	--	--	2,940,411
11/29/15	Technician		32,841	615	1	92	--	366	0.0	2,940,478
11/30/15	Technician		32,865	610	1	92	--	358	0.0	2,940,543

Cumulative Mass TPHg Removed by the VES ^A (lb)			
Period	November	Quarter 4 to Date	April 1996 to Date
Mass	1,256	2,666	2,940,543

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

Legend / Notes:

- 1 = VES restarted (manually shutdown on 10/30/15) following completion of carbon change out work.
- 2 = Measured individual well and/or soil biopile vapor concentrations with an OVA.
- 3 = Collected monthly influent, after GAC-1, after GAC-2, and effluent samples for laboratory analysis.
- 4 = Select soil biopiles brought online and/or taken off-line.
- 5 = VES manually shutdown for maintenance.
- 6 = VES restarted following completion of maintenance work.
- 7 = VES temporarily off-line for up to 8 hours to conduct carbon change out and/or maintenance work.

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

- A = Reading from chart recorder.
- B = Concentrations obtained with a calibrated organic vapor analyzer (OVA).
- C = Concentrations correlated to laboratory data and expressed as hexane.
- D = Hydrocarbon removal is calculated using analytical laboratory results for GRO (if not detected, half the detection limit is used) from samples collected on: 10/07/15 and 11/04/15 (laboratory reports attached).
- = Not applicable or not measured
- * = Operational values interpolated from chart recorder data or previous monitoring event.

Vapor extraction wells on line this month: VEW-32, VEW-33, HW-1, HW-3, HW-5
 Soil biopiles on line this month: Powerline J-SP-01 through M-SP-01, 80002-F-SP-01 through J-SP-01, 80004 D-SP-01 and H-SP-01 through M-SP-01, and 80006 C-SP-01, D-SP-01 and G-SP-01 through M-SP-01, and 80013 A-SP-01 through E-SP-01

TABLE 3c
Soil Vapor Extraction System Summary of Operations - December
 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 with Dilution (ppmv)	Field Process Concentration with Dilution ^{B,C} (ppmv)	Field Effluent Concentration ^{B,C} (ppmv)	Cumulative Vapor-Phase GRO Removed ^D (lb)
12/01/15	*		32,889	610	--	--	--	--	--	2,940,609
12/02/15	Technician	1,2	32,913	608	1	82	--	354	0.0	2,940,675
12/03/15	*		32,937	608	--	--	--	--	--	2,940,740
12/04/15	Technician	1	32,961	601	1	84	--	269	0.0	2,940,805
12/05/15	Auto Shutdown	3	32,968	601	1	84	--	269	0.0	2,940,824
12/06/15	Off line		32,968	NA	--	--	--	--	--	2,940,824
12/07/15	Technician	4,5	32,982	608	1	86	320	346	0.0	2,940,866
12/08/15	*		33,006	608	--	--	--	--	--	2,940,937
12/09/15	Technician	1,2	33,030	802	1	113	--	443	0.0	2,941,031
12/10/15	Technician	1	33,054	807	1	108	--	401	0.0	2,941,126
12/11/15	*		33,078	807	--	--	--	--	--	2,941,220
12/12/15	Technician		33,102	806	1	108	--	343	0.0	2,941,314
12/13/15	*		33,126	806	--	--	--	--	--	2,941,408
12/14/15	Technician	2	33,150	803	1	98	--	407	0.2	2,941,502
12/15/15	*		33,174	803	--	--	--	--	--	2,941,596
12/16/15	Technician		33,198	808	1	108	--	440	0.9	2,941,690
12/17/15	Technician	6	33,209	808	1	108	--	440	0.9	2,941,734
12/18/15	Technician	4	33,218	808	1	108	--	331	0.0	2,941,770
12/19/15	*		33,242	808	--	--	--	--	--	2,941,865
12/20/15	*		33,266	808	--	--	--	--	--	2,941,959
12/21/15	Technician	1,2	33,290	803	1	92	--	367	0.0	2,942,053
12/22/15	*		33,314	803	--	--	--	--	--	2,942,147
12/23/15	Technician		33,338	695	1	106	--	202	0.0	2,942,228
12/24/15	*		33,362	695	--	--	--	--	--	2,942,309
12/25/15	*		33,386	695	--	--	--	--	--	2,942,390
12/26/15	*		33,410	695	--	--	--	--	--	2,942,472
12/27/15	*		33,434	695	--	--	--	--	--	2,942,553
12/28/15	Technician		33,458	702	1	90	--	204	0.0	2,942,635
12/29/15	*		33,482	702	--	--	--	--	--	2,942,717
12/30/15	Technician	6	33,495	702	1	90	--	268	0.5	2,942,763
12/31/15	Technician	1,2,4	33,506	696	1	104	--	243	0.0	2,942,798

Cumulative Mass TPHg Removed by the VES ^A (lb)			
Period	December	Quarter 4 to Date	April 1996 to Date
Mass	2,255	4,921	2,942,798

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

Legend / Notes:

- 1 = Measured individual well and/or soil biopile vapor concentrations with an OVA.
- 2 = Select soil biopiles brought online and/or taken off-line.
- 3 = VES automatically shut down.
- 4 = VES restarted (following completion of carbon change out work on 12/18/15 and 12/31/15).
- 5 = Collected monthly influent, after GAC-1, after GAC-2, and effluent samples for laboratory analysis.
- 6 = VES manually shutdown in advance of scheduled carbon change out work.

Vapor extraction wells on line this month: VEW-32, VEW-33, HW-1, HW-3, HW-5
 Soil biopiles on line this month: Powerline J-SP-01 through O-SP-01, 80002-F-SP-01 through I-SP-01, 80004 D-SP-01 and H-SP-01 through M-SP-01, and 80006 G-SP-01 through M-SP-01

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

A = Reading from chart recorder.
 B = Concentrations obtained with a calibrated organic vapor analyzer (OVA).
 C = Concentrations correlated to laboratory data and expressed as hexane.
 D = Hydrocarbon removal is calculated using analytical laboratory results for GRO (if not detected, half the detection limit is used) from samples collected on: 11/04/15 and 12/07/15 (laboratory reports attached).
 -- = Not applicable or not measured
 * = Operational values interpolated from chart recorder data or previous monitoring event.

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

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

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

Sample Date	Notes	VES Wells On Line	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		GRO as Hexane		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		Total Xylenes		MTBE	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
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

Legend / Notes:

Data collected prior to April 2014 not verified for completeness nor accuracy.
 VES = Soil vapor extraction system
 GRO = Gasoline range organics
 MTBE = Methyl tertiary-butyl ether
 OVA = Organic Vapor Analyzer (calibrated or correlated to Hexane)
 ppmv = Parts per million by volume
 µg/L = Micrograms per liter
 <1 = Not detected at or above the Method Reporting Limit (MRL) shown.
 -- = Not available or not analyzed

1 = VES manually shut down on 05/29/14.
 2 = VES restarted.
 3 = Closed vapor extraction wells VEW-35, VEW-36, and VEW-37 on 08/27/14 based on field PID readings (see Table 6 for details).
 4 = VES manually shut down.
 5 = VES restarted on 11/03/14.
 6 = Select soil biopiles also on line (see Tables 3a through 3c for details).
 7 = Closed all vapor extraction wells from 05/07/15 to 06/03/15 to focus extraction efforts on soil biopiles.
 8 = Opened vapor extraction wells VEW-32, VEW-33 and VEW-34.
 9 = Additional sample collected for laboratory analysis as part of field instrument correlation study.
 10 = Opened vapor extraction wells HW-1, HW-3 and HW-5 on 08/10/15 based on field PID readings (see Table 6 for details).
 11 = Closed vapor extraction well VEW-34 on 08/19/15 based on low to non-detectable lab results (see Table 7 for details).

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

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

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

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

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

Sample Date	Notes	GWETS Wells On Line	Laboratory Analysis Methods	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylene	TBA	MTBE	DIPE	ETBE	TAME
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
11/02/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	420	3,400	5.1	<0.30	17	130	22	<7.0	0.85 J	<0.50	<0.40	<0.30
12/07/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	710	3,800	0.70	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30

Legend / Notes:

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

GWETS = Groundwater extraction and treatment system

TPHd = Total petroleum hydrocarbons as diesel

TPHg = Total petroleum hydrocarbons as gasoline

TBA = tertiary-Butyl alcohol

MTBE = Methyl tertiary-butyl ether

DIPE = Diisopropyl ether

ETBE = Ethyl tertiary-butyl ether

TAME = tertiary-Amyl-methyl ether

µg/L = Micrograms per liter

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

-- = Not available or not analyzed

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

1 = GWETS manually shut down.

2 = GWETS restarted on 07/02/14.

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

4 = GWETS restarted.

5 = GWETS manually shut down on 04/13/15 and 05/06/15, and restarted on 04/27/15 and 05/08/15, respectively.

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

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

Legend / Notes on Next Page.

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

Date	Notes	VES Wells On Line	Well GRO Concentration (ppmv) / Screen Interval in Feet Below Grade									
			HW-1	HW-3	HW-5	HW-7	VEW-32	VEW-33	VEW-34	VEW-35	VEW-36	VEW-37
			25	25	25	25	10 - 25	10 - 25	10 - 25	10 - 25	10 - 25	10 - 25

Legend / Notes:

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

Concentrations measured using calibrated field OVA.

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

2 = Readings prior to well optimization.

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

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

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

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

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

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

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

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

Well ID	Sample Date	Notes	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		MTBE			
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)		
HW-1	07/09/14	1	8015M & 8260M	69	23	96	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0		
	10/23/14			3.3	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<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		
HW-3	07/09/14	1		4,176	2,055	8,400	3.1	10	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0		
	10/23/14			1.8	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0		
	04/27/15			810	590	2,400	3.4	11	0.69	2.6	0.32	1.4	0.20	0.88	1.2	5.0	<0.55	<2.0		
	08/10/15			732	950	3,900	6.3	20	0.34	1.3	0.64	2.8	0.30	1.3	2.3	9.8	<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		
HW-7	07/09/14	1		20	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0		
	10/23/14			20	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0		
	04/27/15			138	66	270	0.28	0.88	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	08/10/15			28	7.3	30	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
VEW-32	07/09/14	1	154	132	540	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0			
	10/23/14		191	19	76	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0			
	04/27/15		210	320	1,300	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0			
	08/10/15		456	460	1,900	0.66	2.1	<0.13	<0.50	0.23	1.0	<0.12	<0.50	0.46	2.0	<0.55	<2.0			
VEW-33	07/09/14	1	10	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0			
	10/23/14		22	7	27	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0			
	04/27/15		324	270	1,100	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0			
	08/10/15		334	290	1,200	0.50	1.6	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	0.32	1.4	<0.55	<2.0			
VEW-34	07/09/14	1	4.2	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0			
	10/23/14		8.0	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0			
	04/27/15		115	44	180	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0			
	08/10/15		63	14	57	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0			
VEW-35	07/09/14	1	5.5	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0			
	10/23/14		28	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0			
	04/27/15		4.8	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0			
	08/10/15		16.4	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0			
VEW-36	07/09/14	1	6.4	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0			
	10/23/14		9.1	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0			
	04/27/15		5.7	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0			
	08/10/15		2.2	8.1	33	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0			
VEW-37	07/09/14	1	20	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0			
	10/23/14		151	13	53	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0			
	04/27/15		2.4	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0			
	08/10/15		3.9	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0			

Legend / Notes:

- GRO = Gasoline range organics
- OVA = Organic Vapor Analyzer (calibrated or correlated to Hexane)
- MTBE = Methyl tertiary-butyl ether
- ppmv = Parts per million by volume
- µg/L = Micrograms per liter
- <0.6 = Not detected at or above the method reporting limit (MRL) shown.
- = Not Analyzed
- 1 = Samples collected following system restart (off line since manual shut down on 05/29/14).

TABLE 8a
Summary of LNAPL Removal in GMW-62 - 4th Quarter 2015
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (ounces)	LNAPL Removed with Socks (fluid ounces)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
10/02/15	--	33.82	--	0	28.0	32.7	118.5	810.7
10/07/15	--	33.91	--	0	28.0	32.7	118.7	812.4
10/16/15	--	33.60	--	0	16.0	18.7	118.9	813.4
10/22/15	--	33.60	--	0	20.0	23.4	119.0	814.7
10/30/15	--	33.82	--	0	28.0	32.7	119.3	816.4
11/16/15	--	33.86	--	0	44.0	51.4	119.7	819.2
11/30/15	--	33.97	--	0	20.0	23.4	119.9	820.4
12/10/15	--	33.95	--	0	12.0	14.0	120.0	821.2
12/16/15	--	33.99	--	0	20.0	23.4	120.2	822.4
12/31/15	--	33.93	--	0	24.0	28.1	120.4	823.9

Cumulative for the Reporting Period:	0.0	240	280.5	2.2	15.0
Cumulative Beginning January 2014 ^A:	112.0	920	1,075.4	120.4	823.9

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

TABLE 8b
Summary of LNAPL Removal in GMW-4 - 4th Quarter 2015
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed with Socks (ounces)	LNAPL Removed with Socks (fluid ounces)	Cumulative LNAPL Removed with Socks^A (gallons)	Cumulative LNAPL Removed with Socks^A (pounds)
01/07/15	Well Abandoned for Soil Excavation						

Cumulative for the Reporting Period:	0	0.0	0.0	0.0
Cumulative Beginning January 2014^A:	0	0.0	0.0	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 January 2014. LNAPL removed prior to January 2014 can be found in previously submitted Remediation Progress Reports.

TABLE 8c
Summary of LNAPL Removal in GMW-21 - 4th Quarter 2015
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (ounces)	LNAPL Removed with Socks (fluid ounces)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
12/16/15	--	33.80	--	0.0	4	4.7	21.5	147.0
Cumulative for the Reporting Period:				0.0	4	4.7	0.1	0.3
Cumulative Beginning January 2014 ^A:				5.0	1,804	2,108.7	21.5	147.0

Legend / Notes:

LNAPL = Light non-aqueous phase liquids

feet btc = Feet below top of casing

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

-- = Not applicable

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

TABLE 8d
Summary of LNAPL Removal in MW-15 - 4th Quarter 2015
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed with Socks (ounces)	LNAPL Removed with Socks (fluid ounces)	Cumulative LNAPL Removed with Socks^A (gallons)	Cumulative LNAPL Removed with Socks^A (pounds)
01/07/15	Well Abandoned for Soil Excavation						

Cumulative for the Reporting Period:	0.0	0.0	0.0	0.0
Cumulative Beginning January 2014^A:	612.8	716.3	5.6	38.3

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

TABLE 8e
Summary of LNAPL Removal in TF-18 - 4th Quarter 2015
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (ounces)	LNAPL Removed with Socks (fluid ounces)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
10/02/15	30.48	33.32	2.84	3.5	0	0.0	134.2	918.3
10/07/15	30.53	33.41	2.88	3.0	0	0.0	137.2	938.8
10/16/15	30.50	33.22	2.72	3.0	0	0.0	140.2	959.3
10/22/15	30.42	33.07	2.65	3.0	0	0.0	143.2	979.8
10/30/15	30.58	33.49	2.91	3.5	0	0.0	146.7	1,003.8
11/16/15	30.66	33.44	2.78	3.0	0	0.0	149.7	1,024.3
11/23/15	30.72	33.72	3.00	3.0	0	0.0	152.7	1,044.9
11/30/15	30.74	33.72	2.98	3.0	0	0.0	155.7	1,065.4
12/4/15 8:20	30.81	33.81	3.00	2.8	0	0.0	158.4	1,084.2
12/4/15 14:40	30.81	33.66	2.85	2.5	0	0.0	160.9	1,101.3
12/7/15 7:15	30.82	33.78	2.96	3.0	0	0.0	163.9	1,121.8
12/7/15 15:15	30.80	33.62	2.82	3.0	0	0.0	166.9	1,142.4
12/8/15 8:30	30.83	33.82	2.99	3.0	0	0.0	169.9	1,162.9
12/8/15 12:45	30.78	33.69	2.91	3.0	0	0.0	172.9	1,183.4
12/8/15 15:05	30.23	33.40	3.17	3.0	0	0.0	175.9	1,204.0
12/9/15 7:45	30.84	33.85	3.01	3.0	0	0.0	178.9	1,224.5
12/9/15 13:24	30.80	33.61	2.81	2.8	0	0.0	181.7	1,243.3
12/10/15 7:45	30.85	33.86	3.01	3.0	0	0.0	184.7	1,263.8
12/14/15 11:15			2.92	2.0	0	0.0	186.7	1,277.5
12/14/15 16:30	30.83	33.75	2.92	1.3	0	0.0	187.9	1,286.1
12/15/15 9:30	30.86	33.82	2.96	3.0	0	0.0	190.9	1,306.6
12/16/15 8:45	30.86	33.77	2.91	3.0	0	0.0	193.9	1,327.1
12/16/15 15:00				2.8	0	0.0	196.7	1,346.0

TABLE 8e
Summary of LNAPL Removal in TF-18 - 4th Quarter 2015
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (ounces)	LNAPL Removed with Socks (fluid ounces)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
12/17/15 9:30	30.86	33.98	3.12	3.0	0	0.0	199.7	1,366.5
12/17/15 15:00				2.5	0	0.0	202.2	1,383.6
12/18/15 8:15	30.84	33.69	2.85	3.0	0	0.0	205.2	1,404.1
12/21/15 8:30	30.87	33.90	3.03	2.8	0	0.0	207.9	1,422.9
12/21/15 15:30				2.6	0	0.0	210.5	1,440.7
12/22/15 9:40	30.82	33.66	2.84	2.7	0	0.0	213.2	1,459.2
12/22/15 14:00				2.5	0	0.0	215.7	1,476.3
12/28/15 8:25	30.83	33.74	2.91	2.5	0	0.0	218.2	1,493.4
12/31/15 8:00	30.81	33.73	2.92	2.5	0	0.0	220.7	1,510.5
12/31/15 15:00				2.5	0	0.0	223.2	1,527.6
Cumulative for the Reporting Period:				92.6	0	0.0	92.6	633.3
Cumulative Beginning January 2014 ^A:				178.3	4,916	5,746.3	223.2	1,527.6

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

TABLE 8f
Summary of LNAPL Removal in TF-19 - 4th Quarter 2015
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (ounces)	LNAPL Removed with Socks (fluid ounces)	Cumulative LNAPL Removed Via Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Pumping, Bailing and Socks ^A (pounds)
10/02/15	--	32.47	--	0.0	20	23.4	7.9	53.8
10/07/15	--	32.52	--	0.0	20	23.4	8.0	55.0
10/16/15	--	32.55	--	0.0	20	23.4	8.2	56.3
10/22/15	--	32.35	--	0.0	12	14.0	8.3	57.0
10/30/15	--	32.52	--	0.0	20	23.4	8.5	58.3
11/16/15	--	32.38	--	0.0	36	42.1	8.8	60.5
11/23/15	--	32.62	--	0.0	16	18.7	9.0	61.5
11/30/15	--	32.77	--	0.0	12	14.0	9.1	62.3
12/10/15	--	32.83	--	0.0	20	23.4	9.3	63.5
12/16/15	--	32.83	--	0.0	16	18.7	9.4	64.5
12/31/15	--	32.73	--	0.0	16	18.7	9.6	65.5

Cumulative for the Reporting Period:	0.0	208	243.1	1.9	13.0
Cumulative Beginning June 2015 ^A:	3.0	720	841.6	9.6	65.5

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 June 2015.

TABLE 8g
Summary of LNAPL Removal in GMW-7 - 4th Quarter 2015
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (ounces)	LNAPL Removed with Socks (fluid ounces)	Cumulative LNAPL Removed Via Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via, Pumping, Bailing and Socks ^A (pounds)
10/02/15	33.15	34.12	0.97	5.5	0	0.0	11.3	77.6
10/07/15	33.22	33.82	0.60	6.0	0	0.0	11.8	81.1
10/16/15	33.27	33.81	0.54	6.5	0	0.0	12.3	84.5
10/22/15	33.24	33.57	0.33	7.0	0	0.0	12.8	87.9
11/16/15	33.41	34.08	0.67	7.5	0	0.0	13.3	91.3
11/23/15	33.48	33.80	0.32	8.0	0	0.0	13.8	94.7
11/30/15	33.53	33.78	0.25	8.0	28	32.7	14.1	96.5
12/10/15	--	33.69	--	8.0	28	32.7	14.4	98.2
12/16/15	--	33.70	--	8.0	12	14.0	14.5	99.0
12/31/15	--	33.65	--	8.0	28	32.7	14.7	100.7
Cumulative for the Reporting Period:				3.5	96	112.2	4.4	30.0
Cumulative Beginning December 2014 ^A:				8.0	736	860.3	14.7	100.7

Legend / Notes:

LNAPL = Light non-aqueous phase liquids

feet btc = Feet below top of casing

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

-- = Not applicable

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

APPENDIX A

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTS



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

October 19, 2015

Neil Irish

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

**Re : DFSP Norwalk GWETS NPDES Monthly / 04-NDLA-001
A5331498 / 5J05009**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 10/05/15 15:36 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-001
Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5331498
Date Received: 10/05/15
Date Reported: 10/19/15

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

Surge Tank	5J05009-01	Water	5	10/05/15 11:30	10/05/15 15:36
After GAC-1	5J05009-02	Water	5	10/05/15 11:25	10/05/15 15:36
After GAC-2	5J05009-03	Water	5	10/05/15 11:20	10/05/15 15:36

Arsenic Total EPA 200.7

Surge Tank	5J05009-01	Water	5	10/05/15 11:30	10/05/15 15:36
After Bed-1	5J05009-04	Water	5	10/05/15 11:15	10/05/15 15:36

Diesel Range Organics 8015M

Surge Tank	5J05009-01	Water	5	10/05/15 11:30	10/05/15 15:36
After GAC-1	5J05009-02	Water	5	10/05/15 11:25	10/05/15 15:36
After GAC-2	5J05009-03	Water	5	10/05/15 11:20	10/05/15 15:36

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-001
Project Name: DFSP Norwalk GWETS NPDES Monthly
Method: TPHG/BTEX/Oxygenates by GC/MS

AA Project No: A5331498
Date Received: 10/05/15
Date Reported: 10/19/15
Units: ug/L

Date Sampled:	10/05/15	10/05/15	10/05/15		
Date Prepared:	10/16/15	10/16/15	10/16/15		
Date Analyzed:	10/16/15	10/16/15	10/16/15		
AA ID No:	5J05009-01	5J05009-02	5J05009-03		
Client ID No:	Surge Tank	After GAC-1	After GAC-2		
Matrix:	Water	Water	Water		
Dilution Factor:	1	1	1	MDL	MRL

8260B TPH GASOLINE BTEX OXY (EPA 8260B)

tert-Amyl Methyl Ether (TAME)	<0.30	<0.30	<0.30	0.30	2.0
Benzene	7.3	<0.20	<0.20	0.20	0.50
tert-Butyl alcohol (TBA)	<7.0	<7.0	<7.0	7.0	10
Diisopropyl ether (DIPE)	<0.50	<0.50	<0.50	0.50	2.0
Ethylbenzene	8.7	<0.20	<0.20	0.20	0.50
Ethyl-tert-Butyl Ether (ETBE)	<0.40	<0.40	<0.40	0.40	2.0
Gasoline Range Organics (GRO)	500	<40	<40	40	100
Methyl-tert-Butyl Ether (MTBE)	0.73 J	0.54 J	<0.40	0.40	2.0
Toluene	<0.30	<0.30	<0.30	0.30	0.50
o-Xylene	15	<0.30	<0.30	0.30	0.50
m,p-Xylenes	35	<0.40	<0.40	0.40	1.0

Surrogates

				%REC Limits
4-Bromofluorobenzene	100%	103%	103%	70-140
Dibromofluoromethane	118%	113%	113%	70-140
Toluene-d8	95%	96%	97%	70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-001
Project Name: DFSP Norwalk GWETS NPDES Monthly
Method: Diesel Range Organics by GC/FID

AA Project No: A5331498
Date Received: 10/05/15
Date Reported: 10/19/15
Units: ug/L

Date Sampled:	10/05/15	10/05/15	10/05/15		
Date Prepared:	10/08/15	10/08/15	10/08/15		
Date Analyzed:	10/09/15	10/09/15	10/09/15		
AA ID No:	5J05009-01	5J05009-02	5J05009-03		
Client ID No:	Surge Tank	After GAC-1	After GAC-2		
Matrix:	Water	Water	Water		
Dilution Factor:	1	1	1	MDL	MRL

Diesel Range Organics 8015M (EPA 8015M)

Diesel Range Organics as Diesel	<60	63 J	<60	60	100
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Surrogates

o-Terphenyl	129%	123%	97%	<u>%REC Limits</u>	50-150
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Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-001
Project Name: DFSP Norwalk GWETS NPDES Monthly
Method: Total Metals by ICP Atomic Emission Spectroscopy

AA Project No: A5331498
Date Received: 10/05/15
Date Reported: 10/19/15

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MDL	MRL
<u>Arsenic Total EPA 200.7 (EPA 200.7)</u>									
5J05009-01	Surge Tank	10/05/15	10/07/15	10/07/15	1	0.054	mg/L	0.006	0.007
5J05009-04	After Bed-1	10/05/15	10/07/15	10/07/15	1	0.016	mg/L	0.006	0.007

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-001
Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5331498
Date Received: 10/05/15
Date Reported: 10/19/15

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

Batch B5J1616 - EPA 5030B

Blank (B5J1616-BLK1)

Prepared & Analyzed: 10/16/15

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

Surrogate: 4-Bromofluorobenzene	48.3		ug/L	50		96.5	70-140			
Surrogate: Dibromofluoromethane	55.1		ug/L	50		110	70-140			
Surrogate: Toluene-d8	45.6		ug/L	50		91.3	70-140			

LCS (B5J1616-BS1)

Prepared & Analyzed: 10/16/15

tert-Amyl Methyl Ether (TAME)	19.3	0.30	ug/L	20		96.4	70-130			
Benzene	22.2	0.20	ug/L	20		111	75-125			
tert-Butyl alcohol (TBA)	92.0	7.0	ug/L	100		92.0	70-130			
Diisopropyl ether (DIPE)	19.1	0.50	ug/L	20		95.6	70-130			
Ethylbenzene	20.1	0.20	ug/L	20		101	75-125			
Ethyl-tert-Butyl Ether (ETBE)	18.7	0.40	ug/L	20		93.7	70-130			
Gasoline Range Organics (GRO)	490	40	ug/L	500		98.0	70-130			
Methyl-tert-Butyl Ether (MTBE)	39.4	0.40	ug/L	40		98.6	70-135			
Toluene	20.9	0.30	ug/L	20		104	75-125			
o-Xylene	19.0	0.30	ug/L	20		95.2	75-125			
m,p-Xylenes	39.5	0.40	ug/L	40		98.7	70-130			

Surrogate: 4-Bromofluorobenzene	49.2		ug/L	50		98.4	70-140			
Surrogate: Dibromofluoromethane	49.3		ug/L	50		98.7	70-140			
Surrogate: Toluene-d8	48.3		ug/L	50		96.7	70-140			

Matrix Spike (B5J1616-MS1) Source: 5J05008-01 Prepared & Analyzed: 10/16/15

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-001
Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5331498
Date Received: 10/05/15
Date Reported: 10/19/15

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

Batch B5J1616 - EPA 5030B

Matrix Spike (B5J1616-MS1) Continued Source: 5J05008-01 Prepared & Analyzed: 10/16/15

tert-Amyl Methyl Ether (TAME)	22.2	0.30	ug/L	20		111	70-130			
Benzene	22.7	0.20	ug/L	20		113	70-130			
tert-Butyl alcohol (TBA)	90.6	7.0	ug/L	100		90.6	70-130			
Diisopropyl ether (DIPE)	20.0	0.50	ug/L	20		100	70-130			
Ethylbenzene	19.8	0.20	ug/L	20		99.0	70-130			
Ethyl-tert-Butyl Ether (ETBE)	19.2	0.40	ug/L	20		96.2	70-130			
Gasoline Range Organics (GRO)	460	40	ug/L	500		92.0	70-130			
Methyl-tert-Butyl Ether (MTBE)	45.5	0.40	ug/L	40		114	70-130			
Toluene	19.8	0.30	ug/L	20		99.2	70-130			
o-Xylene	18.2	0.30	ug/L	20		90.8	70-130			
m,p-Xylenes	38.1	0.40	ug/L	40		95.4	70-130			

Surrogate: 4-Bromofluorobenzene	49.6		ug/L	50		99.2	70-140			
Surrogate: Dibromofluoromethane	52.0		ug/L	50		104	70-140			
Surrogate: Toluene-d8	46.6		ug/L	50		93.1	70-140			

Matrix Spike Dup (B5J1616-MSD1) Source: 5J05008-01 Prepared & Analyzed: 10/16/15

tert-Amyl Methyl Ether (TAME)	21.4	0.30	ug/L	20		107	70-130	3.58	30	
Benzene	23.1	0.20	ug/L	20		116	70-130	2.10	30	
tert-Butyl alcohol (TBA)	86.5	7.0	ug/L	100		86.5	70-130	4.64	30	
Diisopropyl ether (DIPE)	19.8	0.50	ug/L	20		99.0	70-130	1.11	30	
Ethylbenzene	20.0	0.20	ug/L	20		100	70-130	1.11	30	
Ethyl-tert-Butyl Ether (ETBE)	19.3	0.40	ug/L	20		96.4	70-130	0.156	30	
Gasoline Range Organics (GRO)	471	40	ug/L	500		94.2	70-130	2.36	30	
Methyl-tert-Butyl Ether (MTBE)	43.3	0.40	ug/L	40		108	70-130	4.84	30	
Toluene	20.2	0.30	ug/L	20		101	70-130	1.85	30	
o-Xylene	19.1	0.30	ug/L	20		95.6	70-130	5.20	30	
m,p-Xylenes	39.4	0.40	ug/L	40		98.5	70-130	3.28	30	

Surrogate: 4-Bromofluorobenzene	49.9		ug/L	50		99.9	70-140			
Surrogate: Dibromofluoromethane	52.4		ug/L	50		105	70-140			
Surrogate: Toluene-d8	48.1		ug/L	50		96.2	70-140			

Diesel Range Organics by GC/FID - Quality Control

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-001
Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5331498
Date Received: 10/05/15
Date Reported: 10/19/15

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

Batch B5J0801 - EPA 3510C

Blank (B5J0801-BLK1)

Prepared & Analyzed: 10/08/15

Diesel Range Organics as Diesel	<60	60	ug/L						
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<i>Surrogate: o-Terphenyl</i>	57.2		ug/L	40	143	50-150			
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LCS (B5J0801-BS1)

Prepared & Analyzed: 10/08/15

Diesel Range Organics as Diesel	730	60	ug/L	800	91.3	75-125		30	
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<i>Surrogate: o-Terphenyl</i>	55.8		ug/L	40	139	50-150			
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LCS Dup (B5J0801-BSD1)

Prepared & Analyzed: 10/08/15

Diesel Range Organics as Diesel	783	60	ug/L	800	97.9	75-125	6.99	30	
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<i>Surrogate: o-Terphenyl</i>	56.7		ug/L	40	142	50-150			
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Total Metals by ICP Atomic Emission Spectroscopy - Quality Control

Batch B5J0713 - EPA 3010A

Blank (B5J0713-BLK1)

Prepared & Analyzed: 10/07/15

Arsenic	<0.0060	0.0060	mg/L						
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LCS (B5J0713-BS1)

Prepared & Analyzed: 10/07/15

Arsenic	0.196	0.0060	mg/L	0.20	97.8	80-120		20	
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LCS Dup (B5J0713-BSD1)

Prepared & Analyzed: 10/07/15

Arsenic	0.182	0.0060	mg/L	0.20	90.8	80-120	7.53	20	
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Duplicate (B5J0713-DUP1)

Source: 5J05009-01

Prepared & Analyzed: 10/07/15

Arsenic	0.0540	0.0060	mg/L	0.0540			0.00	30	
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Matrix Spike (B5J0713-MS1)

Source: 5J05008-01

Prepared & Analyzed: 10/07/15

Arsenic	0.230	0.0060	mg/L	0.20	115	75-125		20	
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Matrix Spike Dup (B5J0713-MSD1)

Source: 5J05008-01

Prepared & Analyzed: 10/07/15

Arsenic	0.202	0.0060	mg/L	0.20	101	75-125	13.2	20	
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-001
Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5331498
Date Received: 10/05/15
Date Reported: 10/19/15

Special Notes

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

Viorel Vasile
Operations Manager



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

October 15, 2015

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-001
A5331504 / 5J08001**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 10/08/15 10:09 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5331504
Date Received: 10/08/15
Date Reported: 10/15/15

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

Influent	5J08001-01	Vapor	5	10/07/15 10:16	10/08/15 10:09
Effluent	5J08001-02	Vapor	5	10/07/15 10:10	10/08/15 10:09

VOCs Gasoline Range Organics Vapor

Influent	5J08001-01	Vapor	5	10/07/15 10:16	10/08/15 10:09
Effluent	5J08001-02	Vapor	5	10/07/15 10:10	10/08/15 10:09

VOCs GRO Vapor as Hexane

Influent	5J08001-01	Vapor	5	10/07/15 10:16	10/08/15 10:09
Effluent	5J08001-02	Vapor	5	10/07/15 10:10	10/08/15 10:09

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5331504
Date Received: 10/08/15
Date Reported: 10/15/15
Sampled: 10/07/15
Prepared: 10/08/15
Analyzed: 10/08/15

Influent**5J08001-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	2.2	ug/L	0.50	0.69	ppmv	0.16
Ethylbenzene	0.97	ug/L	0.50	0.22	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	3.1	ug/L	0.50	0.82	ppmv	0.13
o-Xylene	1.8	ug/L	0.50	0.41	ppmv	0.12
m,p-Xylenes	4.6	ug/L	1.0	1.1	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	96.2 %	70-140
Dibromofluoromethane	115 %	70-140
Toluene-d8	95.4 %	70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5331504
Date Received: 10/08/15
Date Reported: 10/15/15
Sampled: 10/07/15
Prepared: 10/08/15
Analyzed: 10/08/15

Effluent**5J08001-02 (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
Dibromofluoromethane
Toluene-d8

100 %
121 %
93.1 %

70-140
70-140
70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5331504
Date Received: 10/08/15
Date Reported: 10/15/15
Sampled: 10/07/15
Prepared: 10/09/15
Analyzed: 10/09/15

Influent**5J08001-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	940	ug/L	20	230	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		98.1 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5331504
Date Received: 10/08/15
Date Reported: 10/15/15
Sampled: 10/07/15
Prepared: 10/09/15
Analyzed: 10/09/15

Effluent**5J08001-02 (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		105 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor as Hexane

AA Project No: A5331504
Date Received: 10/08/15
Date Reported: 10/15/15
Sampled: 10/07/15
Prepared: 10/09/15
Analyzed: 10/09/15

Influent**5J08001-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
GRO as Hexane	940	ug/L	20	270	ppmv	5.7
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		98.1 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor as Hexane

AA Project No: A5331504
Date Received: 10/08/15
Date Reported: 10/15/15
Sampled: 10/07/15
Prepared: 10/09/15
Analyzed: 10/09/15

Effluent**5J08001-02 (Vapor)**

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

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5331504
Date Received: 10/08/15
Date Reported: 10/15/15

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

Batch B5J0803 - *** DEFAULT PREP ***

Blank (B5J0803-BLK1)

Prepared & Analyzed: 10/08/15

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	50.4		ug/L	50		101 70-140			
Surrogate: Dibromofluoromethane	57.8		ug/L	50		116 70-140			
Surrogate: Toluene-d8	47.3		ug/L	50		94.7 70-140			

LCS (B5J0803-BS1)

Prepared & Analyzed: 10/08/15

Benzene	22.7	0.50	ug/L	20		114 75-125			
Ethylbenzene	20.4	0.50	ug/L	20		102 75-125			
Methyl-tert-Butyl Ether (MTBE)	46.0	2.0	ug/L	40		115 75-125			
Toluene	21.1	0.50	ug/L	20		105 75-125			
o-Xylene	19.2	0.50	ug/L	20		96.2 75-125			
m,p-Xylenes	40.4	1.0	ug/L	40		101 75-125			

Surrogate: 4-Bromofluorobenzene	49.5		ug/L	50		99.0 70-140			
Surrogate: Dibromofluoromethane	51.0		ug/L	50		102 70-140			
Surrogate: Toluene-d8	46.6		ug/L	50		93.3 70-140			

LCS Dup (B5J0803-BSD1)

Prepared & Analyzed: 10/08/15

Benzene	23.0	0.50	ug/L	20		115 75-125	1.22	30	
Ethylbenzene	20.5	0.50	ug/L	20		102 75-125	0.489	30	
Methyl-tert-Butyl Ether (MTBE)	46.9	2.0	ug/L	40		117 75-125	2.04	30	
Toluene	21.2	0.50	ug/L	20		106 75-125	0.615	30	
o-Xylene	19.7	0.50	ug/L	20		98.4 75-125	2.21	30	
m,p-Xylenes	40.4	1.0	ug/L	40		101 75-125	0.0495	30	

Surrogate: 4-Bromofluorobenzene	49.7		ug/L	50		99.5 70-140			
Surrogate: Dibromofluoromethane	50.8		ug/L	50		102 70-140			
Surrogate: Toluene-d8	46.8		ug/L	50		93.5 70-140			

Duplicate (B5J0803-DUP1)

Source: 5J08002-02 Prepared & Analyzed: 10/08/15

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5331504
Date Received: 10/08/15
Date Reported: 10/15/15

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

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

Batch B5J0803 - *** DEFAULT PREP ***

Duplicate (B5J0803-DUP1) Continued Source: 5J08002-02 Prepared & Analyzed: 10/08/15

Table with 11 columns showing VOCs BTEX/MTBE Vapor analysis results for Benzene, Ethylbenzene, MTBE, Toluene, o-Xylene, m,p-Xylenes, and Surrogate compounds.

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

Batch B5J0907 - *** DEFAULT PREP ***

Blank (B5J0907-BLK1) Prepared & Analyzed: 10/09/15

Table with 11 columns showing Gasoline Range Organics (GRO) analysis results for Blank and Surrogate: a,a,a-Trifluorotoluene.

LCS (B5J0907-BS1) Prepared & Analyzed: 10/09/15

Table with 11 columns showing Gasoline Range Organics (GRO) analysis results for LCS and Surrogate: a,a,a-Trifluorotoluene.

LCS Dup (B5J0907-BSD1) Prepared & Analyzed: 10/09/15

Table with 11 columns showing Gasoline Range Organics (GRO) analysis results for LCS Dup and Surrogate: a,a,a-Trifluorotoluene.

Duplicate (B5J0907-DUP1) Source: 5J08002-01 Prepared & Analyzed: 10/09/15

Table with 11 columns showing Gasoline Range Organics (GRO) analysis results for Duplicate and Surrogate: a,a,a-Trifluorotoluene.

Gasoline Range Organics in Vapor as Hexane - Quality Control

Batch B5J0907 - *** DEFAULT PREP ***

Blank (B5J0907-BLK1) Prepared & Analyzed: 10/09/15

Table with 11 columns showing Gasoline Range Organics in Vapor as Hexane analysis results for Blank and Surrogate: a,a,a-Trifluorotoluene.

Handwritten signature

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5331504
Date Received: 10/08/15
Date Reported: 10/15/15

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD	RPD Limit	Notes
Gasoline Range Organics in Vapor as Hexane - Quality Control									
<i>Batch B5J0907 - *** DEFAULT PREP ***</i>									
LCS (B5J0907-BS1)				Prepared & Analyzed: 10/09/15					
GRO as Hexane	426	20	ug/L	500	85.2	75-125			
Surrogate: a,a,a-Trifluorotoluene	46.3		ug/L	50	92.7	70-130			
LCS Dup (B5J0907-BSD1)				Prepared & Analyzed: 10/09/15					
GRO as Hexane	458	20	ug/L	500	91.5	75-125	7.13	30	
Surrogate: a,a,a-Trifluorotoluene	50.2		ug/L	50	100	70-130			
Duplicate (B5J0907-DUP1)				Source: 5J08002-01 Prepared & Analyzed: 10/09/15					
GRO as Hexane	54.5	20	ug/L		65.6		18.4	30	
Surrogate: a,a,a-Trifluorotoluene	47.7		ug/L	50	95.3	70-130			

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5331504
Date Received: 10/08/15
Date Reported: 10/15/15

Special Notes

Viorel Vasile
Operations Manager



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

November 10, 2015

Neil Irish

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

**Re : DFSP Norwalk GWETS NPDES Monthly / 04-NDLA-013
A5331538 / 5K02016**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 11/02/15 15:39 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5331538
Date Received: 11/02/15
Date Reported: 11/10/15

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

Surge Tank	5K02016-01	Water	5	11/02/15 13:26	11/02/15 15:39
After GAC-1	5K02016-02	Water	5	11/02/15 13:20	11/02/15 15:39
After GAC-2	5K02016-03	Water	5	11/02/15 13:16	11/02/15 15:39

Arsenic Total EPA 200.7

Surge Tank	5K02016-01	Water	5	11/02/15 13:26	11/02/15 15:39
After Bed-1	5K02016-04	Water	5	11/02/15 12:50	11/02/15 15:39

Diesel Range Organics 8015M

Surge Tank	5K02016-01	Water	5	11/02/15 13:26	11/02/15 15:39
After GAC-1	5K02016-02	Water	5	11/02/15 13:20	11/02/15 15:39
After GAC-2	5K02016-03	Water	5	11/02/15 13:16	11/02/15 15:39

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5331538
Date Received: 11/02/15
Date Reported: 11/10/15
Units: ug/L

Date Sampled:	11/02/15	11/02/15	11/02/15		
Date Prepared:	11/04/15	11/04/15	11/04/15		
Date Analyzed:	11/04/15	11/04/15	11/04/15		
AA ID No:	5K02016-01	5K02016-02	5K02016-03		
Client ID No:	Surge Tank	After GAC-1	After GAC-2		
Matrix:	Water	Water	Water		
Dilution Factor:	1	1	1	MDL	MRL

8260B TPH GASOLINE BTEX OXY (EPA 8260B)

tert-Amyl Methyl Ether (TAME)	<0.30	<0.30	<0.30	0.30	2.0
Benzene	5.1	<0.20	<0.20	0.20	0.50
tert-Butyl alcohol (TBA)	<7.0	<7.0	<7.0	7.0	10
Diisopropyl ether (DIPE)	<0.50	<0.50	<0.50	0.50	2.0
Ethylbenzene	17	<0.20	<0.20	0.20	0.50
Ethyl-tert-Butyl Ether (ETBE)	<0.40	<0.40	<0.40	0.40	2.0
Gasoline Range Organics (GRO)	3400	<40	<40	40	100
Methyl-tert-Butyl Ether (MTBE)	0.85 J	0.67 J	<0.40	0.40	2.0
Toluene	<0.30	<0.30	<0.30	0.30	0.50
o-Xylene	22	<0.30	<0.30	0.30	0.50
m,p-Xylenes	130	0.49 J	<0.40	0.40	1.0

Surrogates

				%REC Limits
4-Bromofluorobenzene	104%	101%	101%	70-140
Dibromofluoromethane	118%	110%	118%	70-140
Toluene-d8	92%	94%	96%	70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5331538
Date Received: 11/02/15
Date Reported: 11/10/15
Units: ug/L

Date Sampled:	11/02/15	11/02/15	11/02/15		
Date Prepared:	11/03/15	11/03/15	11/03/15		
Date Analyzed:	11/04/15	11/04/15	11/04/15		
AA ID No:	5K02016-01	5K02016-02	5K02016-03		
Client ID No:	Surge Tank	After GAC-1	After GAC-2		
Matrix:	Water	Water	Water		
Dilution Factor:	1	1	1	MDL	MRL

Diesel Range Organics 8015M (EPA 8015M)

Diesel Range Organics as Diesel	420	<60	<60	60	100
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Surrogates

o-Terphenyl	85%	92%	85%	<u>%REC Limits</u>	50-150
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5331538
Date Received: 11/02/15
Date Reported: 11/10/15

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MDL	MRL
<u>Arsenic Total EPA 200.7 (EPA 200.7)</u>									
5K02016-01	Surge Tank	11/02/15	11/05/15	11/06/15	1	0.041	mg/L	0.006	0.007
5K02016-04	After Bed-1	11/02/15	11/05/15	11/06/15	1	0.019	mg/L	0.006	0.007

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5331538
Date Received: 11/02/15
Date Reported: 11/10/15

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

Batch B5K0413 - EPA 5030B

Blank (B5K0413-BLK1)

Prepared & Analyzed: 11/04/15

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

Surrogate: 4-Bromofluorobenzene	51.6		ug/L	50		103	70-140			
Surrogate: Dibromofluoromethane	51.7		ug/L	50		103	70-140			
Surrogate: Toluene-d8	49.9		ug/L	50		99.9	70-140			

LCS (B5K0413-BS1)

Prepared & Analyzed: 11/04/15

tert-Amyl Methyl Ether (TAME)	21.0	0.30	ug/L	20		105	70-130			
Benzene	22.7	0.20	ug/L	20		113	75-125			
tert-Butyl alcohol (TBA)	99.7	7.0	ug/L	100		99.7	70-130			
Diisopropyl ether (DIPE)	19.4	0.50	ug/L	20		97.0	70-130			
Ethylbenzene	19.8	0.20	ug/L	20		99.0	75-125			
Ethyl-tert-Butyl Ether (ETBE)	20.0	0.40	ug/L	20		100	70-130			
Gasoline Range Organics (GRO)	551	40	ug/L	500		110	70-130			
Methyl-tert-Butyl Ether (MTBE)	44.2	0.40	ug/L	40		111	70-135			
Toluene	20.7	0.30	ug/L	20		103	75-125			
o-Xylene	19.2	0.30	ug/L	20		95.8	75-125			
m,p-Xylenes	39.6	0.40	ug/L	40		99.1	70-130			

Surrogate: 4-Bromofluorobenzene	48.9		ug/L	50		97.9	70-140			
Surrogate: Dibromofluoromethane	53.1		ug/L	50		106	70-140			
Surrogate: Toluene-d8	46.9		ug/L	50		93.7	70-140			

Matrix Spike (B5K0413-MS1)

Source: 5K03012-03 Prepared & Analyzed: 11/04/15

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5331538
Date Received: 11/02/15
Date Reported: 11/10/15

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

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

Batch B5K0413 - EPA 5030B

Matrix Spike (B5K0413-MS1) Continued Source: 5K03012-03 Prepared & Analyzed: 11/04/15

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

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

Matrix Spike Dup (B5K0413-MSD1) Source: 5K03012-03 Prepared & Analyzed: 11/04/15

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

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

Diesel Range Organics by GC/FID - Quality Control

Handwritten signature

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5331538
Date Received: 11/02/15
Date Reported: 11/10/15

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

Batch B5K0346 - EPA 3510C

Blank (B5K0346-BLK1) Prepared: 11/03/15 Analyzed: 11/04/15

Diesel Range Organics as Diesel <60 60 ug/L

Surrogate: o-Terphenyl 37.0 ug/L 40 92.5 50-150

LCS (B5K0346-BS1) Prepared: 11/03/15 Analyzed: 11/04/15

Diesel Range Organics as Diesel 662 60 ug/L 800 82.7 75-125 30

Surrogate: o-Terphenyl 40.8 ug/L 40 102 50-150

LCS Dup (B5K0346-BSD1) Prepared: 11/03/15 Analyzed: 11/04/15

Diesel Range Organics as Diesel 672 60 ug/L 800 84.0 75-125 1.58 30

Surrogate: o-Terphenyl 41.5 ug/L 40 104 50-150

Total Metals by ICP Atomic Emission Spectroscopy - Quality Control

Batch B5K0507 - EPA 3010A

Blank (B5K0507-BLK1) Prepared: 11/05/15 Analyzed: 11/06/15

Arsenic <0.0060 0.0060 mg/L

LCS (B5K0507-BS1) Prepared: 11/05/15 Analyzed: 11/06/15

Arsenic 0.202 0.0060 mg/L 0.20 101 80-120 20

LCS Dup (B5K0507-BSD1) Prepared: 11/05/15 Analyzed: 11/06/15

Arsenic 0.202 0.0060 mg/L 0.20 101 80-120 0.396 20

Matrix Spike (B5K0507-MS1) Source: 5K02015-01 Prepared: 11/05/15 Analyzed: 11/06/15

Arsenic 0.179 0.0060 mg/L 0.20 0.00870 85.2 75-125 20

Matrix Spike Dup (B5K0507-MSD1) Source: 5K02015-01 Prepared: 11/05/15 Analyzed: 11/06/15

Arsenic 0.173 0.0060 mg/L 0.20 0.00870 82.2 75-125 3.29 20

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5331538
Date Received: 11/02/15
Date Reported: 11/10/15

Special Notes

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

Viorel Vasile
Operations Manager



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

November 16, 2015

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5331544 / 5K05003**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 11/05/15 10:08 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5331544
Date Received: 11/05/15
Date Reported: 11/16/15

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

Influent	5K05003-01	Vapor	5	11/04/15 09:12	11/05/15 10:08
Effluent	5K05003-02	Vapor	5	11/04/15 09:06	11/05/15 10:08

VOCs Gasoline Range Organics Vapor

Influent	5K05003-01	Vapor	5	11/04/15 09:12	11/05/15 10:08
Effluent	5K05003-02	Vapor	5	11/04/15 09:06	11/05/15 10:08

VOCs GRO Vapor as Hexane

Influent	5K05003-01	Vapor	5	11/04/15 09:12	11/05/15 10:08
Effluent	5K05003-02	Vapor	5	11/04/15 09:06	11/05/15 10:08

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5331544
Date Received: 11/05/15
Date Reported: 11/16/15
Sampled: 11/04/15
Prepared: 11/05/15
Analyzed: 11/05/15

Influent**5K05003-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	2.8	ug/L	0.50	0.88	ppmv	0.16
Ethylbenzene	1.1	ug/L	0.50	0.25	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	5.9	ug/L	0.50	1.6	ppmv	0.13
o-Xylene	6.2	ug/L	0.50	1.4	ppmv	0.12
m,p-Xylenes	9.0	ug/L	1.0	2.1	ppmv	0.23

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

4-Bromofluorobenzene
Dibromofluoromethane
Toluene-d8

92.9 %
108 %
94.2 %

70-140
70-140
70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5331544
Date Received: 11/05/15
Date Reported: 11/16/15
Sampled: 11/04/15
Prepared: 11/05/15
Analyzed: 11/05/15

Effluent**5K05003-02 (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
Dibromofluoromethane
Toluene-d8

98.4 %
114 %
92.8 %

70-140
70-140
70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5331544
Date Received: 11/05/15
Date Reported: 11/16/15
Sampled: 11/04/15
Prepared: 11/05/15
Analyzed: 11/05/15

Influent**5K05003-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	1200	ug/L	20	290	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: A5331544
Date Received: 11/05/15
Date Reported: 11/16/15
Sampled: 11/04/15
Prepared: 11/05/15
Analyzed: 11/05/15

Effluent**5K05003-02 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	20	ug/L	20	4.9	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		96.9 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5331544
Date Received: 11/05/15
Date Reported: 11/16/15
Sampled: 11/04/15
Prepared: 11/05/15
Analyzed: 11/05/15

Influent

5K05003-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
GRO as Hexane	1200	ug/L	20	340	ppmv	5.7
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
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 as Hexane

AA Project No: A5331544
Date Received: 11/05/15
Date Reported: 11/16/15
Sampled: 11/04/15
Prepared: 11/05/15
Analyzed: 11/05/15

Effluent**5K05003-02 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
GRO as Hexane	20	ug/L	20	5.7	ppmv	5.7
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		96.9 %			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

AA Project No: A5331544
Date Received: 11/05/15
Date Reported: 11/16/15

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

Batch B5K0502 - *** DEFAULT PREP ***

Blank (B5K0502-BLK1)

Prepared & Analyzed: 11/05/15

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	52.8		ug/L	50		106 70-140			
Surrogate: Dibromofluoromethane	53.0		ug/L	50		106 70-140			
Surrogate: Toluene-d8	47.2		ug/L	50		94.4 70-140			

LCS (B5K0502-BS1)

Prepared & Analyzed: 11/05/15

Benzene	22.4	0.50	ug/L	20		112 75-125			
Ethylbenzene	20.5	0.50	ug/L	20		102 75-125			
Methyl-tert-Butyl Ether (MTBE)	42.5	2.0	ug/L	40		106 75-125			
Toluene	20.6	0.50	ug/L	20		103 75-125			
o-Xylene	19.3	0.50	ug/L	20		96.4 75-125			
m,p-Xylenes	40.5	1.0	ug/L	40		101 75-125			

Surrogate: 4-Bromofluorobenzene	49.7		ug/L	50		99.3 70-140			
Surrogate: Dibromofluoromethane	53.1		ug/L	50		106 70-140			
Surrogate: Toluene-d8	46.7		ug/L	50		93.4 70-140			

LCS Dup (B5K0502-BSD1)

Prepared & Analyzed: 11/05/15

Benzene	23.0	0.50	ug/L	20		115 75-125	2.51	30	
Ethylbenzene	21.2	0.50	ug/L	20		106 75-125	3.45	30	
Methyl-tert-Butyl Ether (MTBE)	46.2	2.0	ug/L	40		116 75-125	8.34	30	
Toluene	23.5	0.50	ug/L	20		117 75-125	12.9	30	
o-Xylene	21.0	0.50	ug/L	20		105 75-125	8.64	30	
m,p-Xylenes	43.1	1.0	ug/L	40		108 75-125	6.17	30	

Surrogate: 4-Bromofluorobenzene	48.8		ug/L	50		97.6 70-140			
Surrogate: Dibromofluoromethane	58.7		ug/L	50		117 70-140			
Surrogate: Toluene-d8	50.6		ug/L	50		101 70-140			

Duplicate (B5K0502-DUP1)

Source: 5K04056-01 Prepared & Analyzed: 11/05/15

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5331544
Date Received: 11/05/15
Date Reported: 11/16/15

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 B5K0502 - *** DEFAULT PREP ***

Duplicate (B5K0502-DUP1) Continued Source: 5K04056-01 Prepared & Analyzed: 11/05/15

Benzene	<0.50	0.50	ug/L							30
Ethylbenzene	<0.50	0.50	ug/L							30
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							30
Toluene	<0.50	0.50	ug/L							30
o-Xylene	<0.50	0.50	ug/L							30
m,p-Xylenes	<1.0	1.0	ug/L							30
Surrogate: 4-Bromofluorobenzene	49.7		ug/L	50		99.3	70-140			
Surrogate: Dibromofluoromethane	56.9		ug/L	50		114	70-140			
Surrogate: Toluene-d8	47.6		ug/L	50		95.2	70-140			

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

Batch B5K0501 - *** DEFAULT PREP ***

Blank (B5K0501-BLK1) Prepared & Analyzed: 11/05/15

Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	47.6		ug/L	50		95.2	70-130			

LCS (B5K0501-BS1) Prepared & Analyzed: 11/05/15

Gasoline Range Organics (GRO)	442	20	ug/L	500		88.3	75-125			
Surrogate: a,a,a-Trifluorotoluene	47.4		ug/L	50		94.8	70-130			

LCS Dup (B5K0501-BSD1) Prepared & Analyzed: 11/05/15

Gasoline Range Organics (GRO)	418	20	ug/L	500		83.6	75-125	5.53	30	
Surrogate: a,a,a-Trifluorotoluene	44.7		ug/L	50		89.5	70-130			

Duplicate (B5K0501-DUP1) Source: 5K05003-02 Prepared: 11/05/15 Analyzed: 11/06/15

Gasoline Range Organics (GRO)	<20	20	ug/L			<20				30
Surrogate: a,a,a-Trifluorotoluene	48.7		ug/L	50		97.5	70-130			

Gasoline Range Organics in Vapor as Hexane - Quality Control

Batch B5K0501 - *** DEFAULT PREP ***

Blank (B5K0501-BLK1) Prepared & Analyzed: 11/05/15

GRO as Hexane	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	47.6		ug/L	50		95.2	70-130			

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5331544
Date Received: 11/05/15
Date Reported: 11/16/15

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
Gasoline Range Organics in Vapor as Hexane - Quality Control										
<i>Batch B5K0501 - *** DEFAULT PREP ***</i>										
LCS (B5K0501-BS1)				Prepared & Analyzed: 11/05/15						
GRO as Hexane	442	20	ug/L	500	88.3	75-125				
Surrogate: a,a,a-Trifluorotoluene	47.4		ug/L	50	94.8	70-130				
LCS Dup (B5K0501-BSD1)				Prepared & Analyzed: 11/05/15						
GRO as Hexane	418	20	ug/L	500	83.6	75-125	5.53	30		
Surrogate: a,a,a-Trifluorotoluene	44.7		ug/L	50	89.5	70-130				
Duplicate (B5K0501-DUP1)				Source: 5K05003-02 Prepared: 11/05/15 Analyzed: 11/06/15						
GRO as Hexane	<20	20	ug/L		<20				30	
Surrogate: a,a,a-Trifluorotoluene	48.7		ug/L	50	97.5	70-130				

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5331544
Date Received: 11/05/15
Date Reported: 11/16/15

Special Notes

Viorel Vasile
Operations Manager



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

December 15, 2015

Neil Irish

The Source Group, Inc. (SH)

1962 Freeman Ave.

Signal Hill, CA 90755

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

A5331572 / 5L07013

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 12/07/15 15:08 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Viorel Vasile

Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5331572
Date Received: 12/07/15
Date Reported: 12/15/15

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

Influent	5L07013-01	Vapor	5	12/07/15 10:36	12/07/15 15:08
Effluent	5L07013-02	Vapor	5	12/07/15 10:30	12/07/15 15:08

VOCs Gasoline Range Organics Vapor

Influent	5L07013-01	Vapor	5	12/07/15 10:36	12/07/15 15:08
Effluent	5L07013-02	Vapor	5	12/07/15 10:30	12/07/15 15:08

VOCs GRO Vapor as Hexane

Influent	5L07013-01	Vapor	5	12/07/15 10:36	12/07/15 15:08
Effluent	5L07013-02	Vapor	5	12/07/15 10:30	12/07/15 15:08

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5331572
Date Received: 12/07/15
Date Reported: 12/15/15
Sampled: 12/07/15
Prepared: 12/09/15
Analyzed: 12/09/15

Influent**5L07013-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	2.2	ug/L	0.50	0.69	ppmv	0.16
Ethylbenzene	0.64	ug/L	0.50	0.15	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	7.0	ug/L	0.50	1.9	ppmv	0.13
o-Xylene	3.3	ug/L	0.50	0.76	ppmv	0.12
m,p-Xylenes	4.1	ug/L	1.0	0.94	ppmv	0.23

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

4-Bromofluorobenzene
Dibromofluoromethane
Toluene-d8

105 %
95.6 %
113 %

70-140
70-140
70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5331572
Date Received: 12/07/15
Date Reported: 12/15/15
Sampled: 12/07/15
Prepared: 12/09/15
Analyzed: 12/09/15

Effluent**5L07013-02 (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
Dibromofluoromethane
Toluene-d8

126 %
90.0 %
112 %

70-140
70-140
70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5331572
Date Received: 12/07/15
Date Reported: 12/15/15
Sampled: 12/07/15
Prepared: 12/08/15
Analyzed: 12/08/15

Influent**5L07013-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	1300	ug/L	20	320	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		101 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5331572
Date Received: 12/07/15
Date Reported: 12/15/15
Sampled: 12/07/15
Prepared: 12/08/15
Analyzed: 12/08/15

Effluent**5L07013-02 (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		97.3 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5331572
Date Received: 12/07/15
Date Reported: 12/15/15
Sampled: 12/07/15
Prepared: 12/08/15
Analyzed: 12/08/15

Influent

5L07013-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
GRO as Hexane	1300	ug/L	20	370	ppmv	5.7
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		101 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5331572
Date Received: 12/07/15
Date Reported: 12/15/15
Sampled: 12/07/15
Prepared: 12/08/15
Analyzed: 12/08/15

Effluent**5L07013-02 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
GRO as Hexane	<20	ug/L	20	<5.7	ppmv	5.7
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		97.3 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5331572
Date Received: 12/07/15
Date Reported: 12/15/15

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

Batch B5L0829 - *** DEFAULT PREP ***

Blank (B5L0829-BLK1)

Prepared & Analyzed: 12/09/15

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	65.8		ug/L	50		132 70-140			
Surrogate: Dibromofluoromethane	39.9		ug/L	50		79.7 70-140			
Surrogate: Toluene-d8	53.6		ug/L	50		107 70-140			

LCS (B5L0829-BS1)

Prepared: 12/09/15 Analyzed: 12/10/15

Benzene	22.5	0.50	ug/L	20		112 75-125			
Ethylbenzene	20.0	0.50	ug/L	20		100 75-125			
Methyl-tert-Butyl Ether (MTBE)	41.8	2.0	ug/L	40		104 75-125			
Toluene	21.5	0.50	ug/L	20		107 75-125			
o-Xylene	17.4	0.50	ug/L	20		86.8 75-125			
m,p-Xylenes	36.5	1.0	ug/L	40		91.4 75-125			

Surrogate: 4-Bromofluorobenzene	62.4		ug/L	50		125 70-140			
Surrogate: Dibromofluoromethane	41.8		ug/L	50		83.6 70-140			
Surrogate: Toluene-d8	54.2		ug/L	50		108 70-140			

LCS Dup (B5L0829-BSD1)

Prepared: 12/09/15 Analyzed: 12/10/15

Benzene	21.1	0.50	ug/L	20		106 75-125	6.42	30	
Ethylbenzene	20.3	0.50	ug/L	20		102 75-125	1.49	30	
Methyl-tert-Butyl Ether (MTBE)	41.3	2.0	ug/L	40		103 75-125	1.18	30	
Toluene	21.9	0.50	ug/L	20		109 75-125	1.80	30	
o-Xylene	17.8	0.50	ug/L	20		89.2 75-125	2.84	30	
m,p-Xylenes	37.5	1.0	ug/L	40		93.8 75-125	2.70	30	

Surrogate: 4-Bromofluorobenzene	57.4		ug/L	50		115 70-140			
Surrogate: Dibromofluoromethane	41.6		ug/L	50		83.2 70-140			
Surrogate: Toluene-d8	54.7		ug/L	50		109 70-140			

Duplicate (B5L0829-DUP1)

Source: 5L07014-02 Prepared & Analyzed: 12/09/15

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5331572
Date Received: 12/07/15
Date Reported: 12/15/15

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

Batch B5L0829 - *** DEFAULT PREP ***

Duplicate (B5L0829-DUP1) Continued Source: 5L07014-02 Prepared & Analyzed: 12/09/15

Benzene	<0.50	0.50	ug/L						30	
Ethylbenzene	<0.50	0.50	ug/L						30	
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L						30	
Toluene	<0.50	0.50	ug/L						30	
o-Xylene	<0.50	0.50	ug/L						30	
m,p-Xylenes	<1.0	1.0	ug/L						30	
Surrogate: 4-Bromofluorobenzene	49.2		ug/L	50		98.5	70-140			
Surrogate: Dibromofluoromethane	53.6		ug/L	50		107	70-140			
Surrogate: Toluene-d8	49.9		ug/L	50		99.8	70-140			

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

Batch B5L0821 - *** DEFAULT PREP ***

Blank (B5L0821-BLK1) Prepared & Analyzed: 12/08/15

Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	46.1		ug/L	50		92.2	70-130			

LCS (B5L0821-BS1) Prepared & Analyzed: 12/08/15

Gasoline Range Organics (GRO)	425	20	ug/L	500		84.9	75-125			
Surrogate: a,a,a-Trifluorotoluene	46.5		ug/L	50		93.0	70-130			

LCS Dup (B5L0821-BSD1) Prepared & Analyzed: 12/08/15

Gasoline Range Organics (GRO)	449	20	ug/L	500		89.8	75-125	5.58	30	
Surrogate: a,a,a-Trifluorotoluene	47.9		ug/L	50		95.8	70-130			

Duplicate (B5L0821-DUP1) Source: 5L07014-01 Prepared & Analyzed: 12/08/15

Gasoline Range Organics (GRO)	341	20	ug/L			338		0.964	30	
Surrogate: a,a,a-Trifluorotoluene	48.5		ug/L	50		97.0	70-130			

Gasoline Range Organics in Vapor as Hexane - Quality Control

Batch B5L0821 - *** DEFAULT PREP ***

Blank (B5L0821-BLK1) Prepared & Analyzed: 12/08/15

GRO as Hexane	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	46.1		ug/L	50		92.2	70-130			

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5331572
Date Received: 12/07/15
Date Reported: 12/15/15

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
Gasoline Range Organics in Vapor as Hexane - Quality Control										
<i>Batch B5L0821 - *** DEFAULT PREP ***</i>										
LCS (B5L0821-BS1)				Prepared & Analyzed: 12/08/15						
GRO as Hexane	425	20	ug/L	500	84.9	75-125				
Surrogate: a,a,a-Trifluorotoluene	46.5		ug/L	50	93.0	70-130				
LCS Dup (B5L0821-BSD1)				Prepared & Analyzed: 12/08/15						
GRO as Hexane	449	20	ug/L	500	89.8	75-125	5.58	30		
Surrogate: a,a,a-Trifluorotoluene	47.9		ug/L	50	95.8	70-130				
Duplicate (B5L0821-DUP1)				Source: 5L07014-01 Prepared & Analyzed: 12/08/15						
GRO as Hexane	341	20	ug/L		338			0.964	30	
Surrogate: a,a,a-Trifluorotoluene	48.5		ug/L	50	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

AA Project No: A5331572
Date Received: 12/07/15
Date Reported: 12/15/15

Special Notes

Viorel Vasile
Operations Manager



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

December 16, 2015

Neil Irish

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

**Re : DFSP Norwalk GWETS NPDES Monthly / 04-NDLA-013
A5331575 / 5L07016**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 12/07/15 15:08 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5331575
Date Received: 12/07/15
Date Reported: 12/16/15

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

Surge Tank	5L07016-01	Water	5	12/07/15 09:20	12/07/15 15:08
After GAC-1	5L07016-02	Water	5	12/07/15 09:16	12/07/15 15:08
After GAC-2	5L07016-03	Water	5	12/07/15 09:11	12/07/15 15:08

Arsenic Total EPA 200.7

Surge Tank	5L07016-01	Water	5	12/07/15 09:20	12/07/15 15:08
After Bed-1	5L07016-04	Water	5	12/07/15 09:04	12/07/15 15:08

Diesel Range Organics 8015M

Surge Tank	5L07016-01	Water	5	12/07/15 09:20	12/07/15 15:08
After GAC-1	5L07016-02	Water	5	12/07/15 09:16	12/07/15 15:08
After GAC-2	5L07016-03	Water	5	12/07/15 09:11	12/07/15 15:08

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5331575
Date Received: 12/07/15
Date Reported: 12/16/15
Units: ug/L

Date Sampled:	12/07/15	12/07/15	12/07/15		
Date Prepared:	12/09/15	12/09/15	12/09/15		
Date Analyzed:	12/10/15	12/09/15	12/09/15		
AA ID No:	5L07016-01	5L07016-02	5L07016-03		
Client ID No:	Surge Tank	After GAC-1	After GAC-2		
Matrix:	Water	Water	Water		
Dilution Factor:	1	1	1	MDL	MRL

8260B TPH GASOLINE BTEX OXY (EPA 8260B)

tert-Amyl Methyl Ether (TAME)	<0.30	<0.30	<0.30	0.30	2.0
Benzene	0.70	<0.20	<0.20	0.20	0.50
tert-Butyl alcohol (TBA)	<7.0	<7.0	<7.0	7.0	10
Diisopropyl ether (DIPE)	<0.50	<0.50	<0.50	0.50	2.0
Ethylbenzene	<0.20	<0.20	<0.20	0.20	0.50
Ethyl-tert-Butyl Ether (ETBE)	<0.40	<0.40	<0.40	0.40	2.0
Gasoline Range Organics (GRO)	3800	<40	<40	40	100
Methyl-tert-Butyl Ether (MTBE)	<0.40	0.49 J	<0.40	0.40	2.0
Toluene	<0.30	<0.30	<0.30	0.30	0.50
o-Xylene	<0.30	<0.30	<0.30	0.30	0.50
m,p-Xylenes	<0.40	<0.40	<0.40	0.40	1.0

Surrogates

				%REC Limits
4-Bromofluorobenzene	105%	128%	105%	70-140
Dibromofluoromethane	82%	87%	91%	70-140
Toluene-d8	113%	110%	108%	70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5331575
Date Received: 12/07/15
Date Reported: 12/16/15
Units: ug/L

Date Sampled:	12/07/15	12/07/15	12/07/15		
Date Prepared:	12/10/15	12/10/15	12/10/15		
Date Analyzed:	12/11/15	12/11/15	12/11/15		
AA ID No:	5L07016-01	5L07016-02	5L07016-03		
Client ID No:	Surge Tank	After GAC-1	After GAC-2		
Matrix:	Water	Water	Water		
Dilution Factor:	1	1	1	MDL	MRL

Diesel Range Organics 8015M (EPA 8015M)

Diesel Range Organics as Diesel	710	<60	<60	60	100
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Surrogates

o-Terphenyl	133%	143%	123%	<u>%REC Limits</u>	50-150
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5331575
Date Received: 12/07/15
Date Reported: 12/16/15

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MDL	MRL
<u>Arsenic Total EPA 200.7 (EPA 200.7)</u>									
5L07016-01	Surge Tank	12/07/15	12/14/15	12/14/15	1	0.022	mg/L	0.006	0.007
5L07016-04	After Bed-1	12/07/15	12/14/15	12/14/15	1	<0.0060	mg/L	0.006	0.007

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5331575
Date Received: 12/07/15
Date Reported: 12/16/15

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

Batch B5L0923 - EPA 5030B

Blank (B5L0923-BLK1)

Prepared & Analyzed: 12/09/15

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

Surrogate: 4-Bromofluorobenzene	65.8		ug/L	50	132	70-140
Surrogate: Dibromofluoromethane	39.9		ug/L	50	79.7	70-140
Surrogate: Toluene-d8	53.6		ug/L	50	107	70-140

LCS (B5L0923-BS1)

Prepared & Analyzed: 12/09/15

tert-Amyl Methyl Ether (TAME)	23.3	0.30	ug/L	20	116	70-130
Benzene	22.2	0.20	ug/L	20	111	75-125
tert-Butyl alcohol (TBA)	146	7.0	ug/L	100	146	70-130
Diisopropyl ether (DIPE)	22.3	0.50	ug/L	20	112	70-130
Ethylbenzene	18.5	0.20	ug/L	20	92.6	75-125
Ethyl-tert-Butyl Ether (ETBE)	22.5	0.40	ug/L	20	112	70-130
Gasoline Range Organics (GRO)	460	40	ug/L	500	92.0	70-130
Methyl-tert-Butyl Ether (MTBE)	45.0	0.40	ug/L	40	112	70-135
Toluene	18.8	0.30	ug/L	20	94.0	75-125
o-Xylene	17.3	0.30	ug/L	20	86.3	75-125
m,p-Xylenes	35.9	0.40	ug/L	40	89.7	70-130

Surrogate: 4-Bromofluorobenzene	69.6		ug/L	50	139	70-140
Surrogate: Dibromofluoromethane	42.2		ug/L	50	84.5	70-140
Surrogate: Toluene-d8	46.0		ug/L	50	92.0	70-140

Matrix Spike (B5L0923-MS1)

Source: 5L07015-01 Prepared: 12/09/15 Analyzed: 12/10/15

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5331575
Date Received: 12/07/15
Date Reported: 12/16/15

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

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

Batch B5L0923 - EPA 5030B

Matrix Spike (B5L0923-MS1) Continued Source: 5L07015-01 Prepared: 12/09/15 Analyzed: 12/10/15

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

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

Matrix Spike Dup (B5L0923-MSD1) Source: 5L07015-01 Prepared: 12/09/15 Analyzed: 12/10/15

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

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

Diesel Range Organics by GC/FID - Quality Control

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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5331575
Date Received: 12/07/15
Date Reported: 12/16/15

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD RPD	RPD Limit	Notes
Diesel Range Organics by GC/FID - Quality Control									
<i>Batch B5L1001 - EPA 3510C</i>									
Blank (B5L1001-BLK1)				Prepared: 12/10/15 Analyzed: 12/11/15					
Diesel Range Organics as Diesel	<60	60	ug/L						
Surrogate: o-Terphenyl	53.3		ug/L	40	133	50-150			
LCS (B5L1001-BS1)				Prepared: 12/10/15 Analyzed: 12/11/15					
Diesel Range Organics as Diesel	605	60	ug/L	800	75.7	75-125		30	
Surrogate: o-Terphenyl	43.7		ug/L	40	109	50-150			
LCS Dup (B5L1001-BSD1)				Prepared: 12/10/15 Analyzed: 12/11/15					
Diesel Range Organics as Diesel	604	60	ug/L	800	75.5	75-125	0.154	30	
Surrogate: o-Terphenyl	40.5		ug/L	40	101	50-150			
Total Metals by ICP Atomic Emission Spectroscopy - Quality Control									
<i>Batch B5L1448 - EPA 3010A</i>									
Blank (B5L1448-BLK1)				Prepared & Analyzed: 12/14/15					
Arsenic	<0.0060	0.0060	mg/L						
LCS (B5L1448-BS1)				Prepared & Analyzed: 12/14/15					
Arsenic	0.216	0.0060	mg/L	0.20	108	80-120		20	
LCS Dup (B5L1448-BSD1)				Prepared & Analyzed: 12/14/15					
Arsenic	0.218	0.0060	mg/L	0.20	109	80-120	0.922	20	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5331575
Date Received: 12/07/15
Date Reported: 12/16/15

Special Notes

[1] = ** : Exceeds upper control limit

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

Viorel Vasile
Operations Manager

